

Tibero

참조 안내서

Tibero 6



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내용 목차

안내서에 대하여	xxxi
제1장 Introduction to Initialization Parameters	1
1.1. Overview	1
1.2. Class Attributes	2
1.3. Initialization Parameter	2
1.3.1. ACF_CMPT_CNT	2
1.3.2. ACF_NMGR_CM_AUTO_REVIVAL	3
1.3.3. ACF_NMGR_PREVENT_REVIVAL_ON_IR	3
1.3.4. ACTIVE_SESSION_HISTORY	3
1.3.5. ACTIVE_SESSION_TIMEOUT	4
1.3.6. ACT_LOG_DEST	4
1.3.7. ACT_LOG_FILE_SIZE	4
1.3.8. AD_AUTH_KBR_SERVICE_NAME	5
1.3.9. AD_AUTH_KEYTAB_FILE	5
1.3.10. AD_AUTH_PREFIX	5
1.3.11. ALL_LOGFILE_MEMBERS_SANITY_CHECK	6
1.3.12. AS_ADDR	6
1.3.13. AS_ALLOW_ONLY_RAW_DISKS	6
1.3.14. AS_DISKSTRING	7
1.3.15. AS_DISK_AFFINITY_GROUP	7
1.3.16. AS_DISK_REPAIR_WAIT_TIME	7
1.3.17. AS_FINE_STRIPE_SIZE	8
1.3.18. AS_PORT	8
1.3.19. AS_SCAN_SSVR_DISK	8
1.3.20. AS_USE_DISK_AFFINITY	9
1.3.21. AS_USE_USER_FUNCTION	9
1.3.22. AS_WTHR_CNT	9
1.3.23. AUDIT_FILE_DEST	10
1.3.24. AUDIT_FILE_SIZE	10
1.3.25. AUDIT_LOG_TOTAL_SIZE_LIMIT	10
1.3.26. AUDIT_SYS_OPERATIONS	11
1.3.27. AUDIT_TRAIL	11
1.3.28. AUTHENTICATION_TIMEOUT	11
1.3.29. AUTO_COALESCE	12
1.3.30. AUTO_COALESCE_INTERVAL	12
1.3.31. BATCHUPDATE_MODE	12
1.3.32. BATCH_INSERT_ROW_CNT_THRESHOLD	13
1.3.33. BIND_VARIABLE_CAPTURE	13
1.3.34. BIND_VARIABLE_CAPTURE_ALLOC_COUNT	13
1.3.35. BIND_VARIABLE_CAPTURE_INTERVAL	14

1.3.36.	BIND_VARIABLE_CAPTURE_KEEP_FIRST	14
1.3.37.	BIND_VARIABLE_CAPTURE_MAX_COUNT	14
1.3.38.	BIND_VARIABLE_CAPTURE_MAX_VAR_COUNT	15
1.3.39.	BIND_VARIABLE_CAPTURE_POOL_PCTDEL	15
1.3.40.	BIND_VARIABLE_CAPTURE_POOL_SIZE	15
1.3.41.	BLOCK_CHANGE_TRACKING	16
1.3.42.	BOOT_WITH_AUTO_DOWN_CLEAN	16
1.3.43.	BTIP_FILE_PATH	16
1.3.44.	CALLSTACK_DUMP_DEST	17
1.3.45.	CCC_CATH_CNT	17
1.3.46.	CCC_MASTERING_UNIT	18
1.3.47.	CCC_RECL_MAX_RESOURCES	18
1.3.48.	CCC_RSBTBL_SIZE	18
1.3.49.	CC_CU_BLKCNT	19
1.3.50.	CC_CU_PCTUSE	19
1.3.51.	CC_CU_WRITEOUT_THRESHOLD	19
1.3.52.	CC_EXPECTED_RATE	20
1.3.53.	CC_TYPICAL_ROW_SIZE	20
1.3.54.	CERTIFICATE_FILE	20
1.3.55.	CLOSE_REMOTE_SESSION_ON_SESSION_RESET	21
1.3.56.	CLUSTER_DATABASE	21
1.3.57.	CMPT_CNT_FOR_RECONFIGURATION	21
1.3.58.	CM_AUTO_RECONNECT_NODE_WITH_ACTIVE_FHB	22
1.3.59.	CM_AUTO_RECONNECT_TIMEOUT	22
1.3.60.	CM_AUTO_REVIVAL	23
1.3.61.	CM_CLUSTER_AUTO_RESTART	23
1.3.62.	CM_DOWN_ON_TIME_DISACCORDANCE	23
1.3.63.	CM_ENABLE_FAST_ACT_LOOP	24
1.3.64.	CM_ENABLE_FAST_MASTER_ELECTION	24
1.3.65.	CM_ENABLE_FAST_NET_ERROR_DETECTION	24
1.3.66.	CM_FENCE	25
1.3.67.	CM_FILE_AUTO_RESTART_SSVR	25
1.3.68.	CM_FORCE_INSTANCE_KILL	25
1.3.69.	CM_GUARD_LOG_DEST	26
1.3.70.	CM_HEARTBEAT_EXPIRE	26
1.3.71.	CM_LOCAL_IP_VERSION	26
1.3.72.	CM_LOG_DEST	27
1.3.73.	CM_LOG_FILE_SIZE	27
1.3.74.	CM_LOG_TOTAL_SIZE_LIMIT	27
1.3.75.	CM_LOOP_TIMEOUT	28
1.3.76.	CM_MODE_OBSERVER	28
1.3.77.	CM_MST_SAFEGUARD_EXPIRE	28
1.3.78.	CM_NAME	29

1.3.79.	CM_NETWORK_AUTO_RESTART	29
1.3.80.	CM_NET_EXPIRE_MARGIN	30
1.3.81.	CM_OBSERVER_EXPIRE	30
1.3.82.	CM_OBSERVER_PORT	30
1.3.83.	CM_PORT	31
1.3.84.	CM_REGARD_NETHB_AS_SERIOUS	31
1.3.85.	CM_RESOURCE_FILE	31
1.3.86.	CM_RESOURCE_FILE_BACKUP	32
1.3.87.	CM_RESOURCE_FILE_BACKUP_INTERVAL	32
1.3.88.	CM_REVIVAL_WAIT_INST_TIMEOUT	32
1.3.89.	CM_REVIVAL_WAIT_NODE_TIMEOUT	33
1.3.90.	CM_REVIVAL_WAIT_TIMEOUT	33
1.3.91.	CM_SVC_AUTO_START_ON_BOOT	33
1.3.92.	CM_TAS_VM_ADDR	34
1.3.93.	CM_TAS_VM_PORT	34
1.3.94.	CM_TIME_UNIT	34
1.3.95.	CM_UI_PORT	35
1.3.96.	CM_USE_ASENV	35
1.3.97.	CM_USE_AWS_EC2	35
1.3.98.	CM_USE_TAS5_STORAGE	36
1.3.99.	CM_VIP_FAILOVER_BASED_ON_SVC_STATUS	36
1.3.100.	CM_VIP_RESTART_COUNT	36
1.3.101.	CM_VIP_STAT_CHECK_INTERVAL	37
1.3.102.	CM_WATCHDOG_EXPIRE	37
1.3.103.	COMMIT_FLUSH_REQUEST	37
1.3.104.	COMMIT_FLUSH_WAIT	38
1.3.105.	COMMIT_POINT_STRENGTH	38
1.3.106.	CONTROL_FILES	38
1.3.107.	CPU_COUNT	39
1.3.108.	CREATE_STORED_OUTLINES	39
1.3.109.	CTHR_CHECK_CONNECTION_INTERVAL	39
1.3.110.	CURSOR_SHARING	40
1.3.111.	CWS_DDD_TIMEOUT_ON_SLOG	40
1.3.112.	CWS_RECL_MAX_RESOURCES	40
1.3.113.	CWS_RESOLVE_CVT_DEADLK_FORCE	41
1.3.114.	CWS_RSBTBL_SIZE	41
1.3.115.	DBLINK_BATCH_UPDATE_ROW_COUNT	41
1.3.116.	DBLINK_CONN_TIMEOUT	42
1.3.117.	DBLINK_CONN_VALIDATION_SKIP_INTERVAL	42
1.3.118.	DBLINK_QUERY_TIMEOUT	42
1.3.119.	DBMS_LOG_DEST	43
1.3.120.	DBMS_LOG_FILE_SIZE	43
1.3.121.	DBMS_LOG_TOTAL_SIZE_LIMIT	43

1.3.122.	DBWR_CNT	44
1.3.123.	DBWR_USE_AIO	44
1.3.124.	DB_BLOCK_SIZE	44
1.3.125.	DB_CACHE_SIZE	45
1.3.126.	DB_CREATE_FILE_DEST	45
1.3.127.	DB_FILE_MULTIBLOCK_READ_COUNT	46
1.3.128.	DB_KEEP_CACHE_SIZE	46
1.3.129.	DB_MULTIBLOCK_PREFETCH_COUNT	46
1.3.130.	DB_NAME	47
1.3.131.	DB_RECYCLE_CACHE_SIZE	47
1.3.132.	DB_UNIQUE_NAME	47
1.3.133.	DD_CACHE_MAX	48
1.3.134.	DEFAULT_SEQ_CACHE_SIZE	48
1.3.135.	DF_HDRBLK_START_OFFSET	48
1.3.136.	DIRTY_BLOCK_WRITE_ISSUE_TIME	49
1.3.137.	DISK_PATH	49
1.3.138.	DONT_USE_FILE_BUFFERING	49
1.3.139.	DPL_INDEX_METHOD	50
1.3.140.	DUMP_EXSTAT_ON_STMT_CANCEL	50
1.3.141.	ENCRYPTION_WALLET_FILE	51
1.3.142.	ENCRYPT_GLOBAL_KEY_FILE	51
1.3.143.	EXTRA_LISTENER_PORTS	51
1.3.144.	EXTRA_LISTENER_PORTS_6	52
1.3.145.	EX_MEMORY_AUTO_MANAGEMENT	52
1.3.146.	EX_MEMORY_COMPENSATE_INTERVAL	52
1.3.147.	EX_MEMORY_DRIFT_CHECK_INTERVAL	53
1.3.148.	EX_MEMORY_DRIFT_RATIO	53
1.3.149.	FDPOOL_HASH_SIZE	53
1.3.150.	FLASHBACK_LOG_ARCHIVE_DEST	54
1.3.151.	FLASHBACK_LOG_ARCHIVE_FORMAT	54
1.3.152.	FLASHBACK_LOG_BUFFER	54
1.3.153.	FLASHBACK_MARKER_INTERVAL	55
1.3.154.	GATHER_SQL_EXEC_TIME	55
1.3.155.	GATHER_SQL_PLAN_STAT	56
1.3.156.	HASH_AREA_SIZE	56
1.3.157.	HBASE_CONNECTOR_SCAN_CACHE	56
1.3.158.	HSM_LIB_FILE	57
1.3.159.	HSM_TTE_KEY_BACKUP_FILE_PATH	57
1.3.160.	ILOG_DEST	57
1.3.161.	ILOG_FILE_BACKUP_ON_BOOT	58
1.3.162.	ILOG_FILE_SIZE	58
1.3.163.	ILOG_MAP	58
1.3.164.	ILOG_TOTAL_SIZE_LIMIT	59

1.3.165.	INSTANCE_NUMBER	59
1.3.166.	INSTANCE_TYPE	59
1.3.167.	IP_VERSION	60
1.3.168.	JAVA_CLASS_PATH	60
1.3.169.	JOB_HISTORY_LOG	61
1.3.170.	JOB_SCHEDULING_MAX_TIMEOUT	61
1.3.171.	JOB_TRACE_LOG	61
1.3.172.	KEEP_STAT_PER_SQL	62
1.3.173.	LIBRARY_CACHE_MAX	62
1.3.174.	LIBRARY_DD_CACHE_MAX	62
1.3.175.	LISTENER_IP	63
1.3.176.	LISTENER_IP_6	63
1.3.177.	LISTENER_PORT	63
1.3.178.	LISTENER_PORT_6	64
1.3.179.	LOAD_METRIC_AUTO_INTERVAL	64
1.3.180.	LOAD_METRIC_COLLECT_INTERVAL_MAX	64
1.3.181.	LOAD_METRIC_COLLECT_INTERVAL_MIN	65
1.3.182.	LOAD_METRIC_HISTORY_COUNT	65
1.3.183.	LOCAL_CLUSTER_ADDR	65
1.3.184.	LOCAL_CLUSTER_ADDR_IPV6	66
1.3.185.	LOCAL_CLUSTER_IP_VERSION	66
1.3.186.	LOCAL_CLUSTER_PORT	66
1.3.187.	LOCAL_CLUSTER_PORT_IPV6	67
1.3.188.	LOG_ARCHIVE_DEST	67
1.3.189.	LOG_ARCHIVE_DEST_1	67
1.3.190.	LOG_ARCHIVE_DEST_2	68
1.3.191.	LOG_ARCHIVE_DEST_3	68
1.3.192.	LOG_ARCHIVE_DEST_4	68
1.3.193.	LOG_ARCHIVE_DEST_5	69
1.3.194.	LOG_ARCHIVE_DEST_6	69
1.3.195.	LOG_ARCHIVE_DEST_7	69
1.3.196.	LOG_ARCHIVE_DEST_8	70
1.3.197.	LOG_ARCHIVE_DEST_9	70
1.3.198.	LOG_ARCHIVE_FORMAT	70
1.3.199.	LOG_ARCHIVE_OVERWRITE	71
1.3.200.	LOG_ARCHIVE_RETRY_TIME	71
1.3.201.	LOG_BUFFER	71
1.3.202.	LOG_CHECKPOINT_INTERVAL	72
1.3.203.	LOG_CHECKPOINT_TIMEOUT	72
1.3.204.	LOG_DEFAULT_DEST	72
1.3.205.	LOG_FILE_WITH_GROUP_READ_PERM	73
1.3.206.	LOG_LVL_AS	73
1.3.207.	LOG_LVL_CM	73

1.3.208.	LOG_LVL_LIS	74
1.3.209.	LOG_ON_MEMORY	74
1.3.210.	LOG_ON_MEMORY_SIZE	74
1.3.211.	LOG_REPLICATION_1_ENABLE	75
1.3.212.	LOG_REPLICATION_2_ENABLE	75
1.3.213.	LOG_REPLICATION_3_ENABLE	75
1.3.214.	LOG_REPLICATION_4_ENABLE	76
1.3.215.	LOG_REPLICATION_5_ENABLE	76
1.3.216.	LOG_REPLICATION_6_ENABLE	76
1.3.217.	LOG_REPLICATION_7_ENABLE	77
1.3.218.	LOG_REPLICATION_8_ENABLE	77
1.3.219.	LOG_REPLICATION_9_ENABLE	77
1.3.220.	LOG_REPLICATION_DEST_1	78
1.3.221.	LOG_REPLICATION_DEST_2	78
1.3.222.	LOG_REPLICATION_DEST_3	78
1.3.223.	LOG_REPLICATION_DEST_4	79
1.3.224.	LOG_REPLICATION_DEST_5	79
1.3.225.	LOG_REPLICATION_DEST_6	79
1.3.226.	LOG_REPLICATION_DEST_7	80
1.3.227.	LOG_REPLICATION_DEST_8	80
1.3.228.	LOG_REPLICATION_DEST_9	80
1.3.229.	LOG_REPLICATION_MODE	81
1.3.230.	LONGOPS_KEEP_INTERVAL	81
1.3.231.	LONGOPS_THRESHOLD_SEC	81
1.3.232.	LONG_OPERATION_KEEP_COUNT	82
1.3.233.	LSNR_DENIED_IP	82
1.3.234.	LSNR_DENIED_IP_FILE	82
1.3.235.	LSNR_INVITED_IP	83
1.3.236.	LSNR_INVITED_IP_FILE	83
1.3.237.	LSNR_LISTEN_BACKLOG	84
1.3.238.	LSNR_LOG_DEST	84
1.3.239.	LSNR_LOG_FILE_SIZE	84
1.3.240.	LSNR_LOG_TOTAL_SIZE_LIMIT	85
1.3.241.	LSNR_SCHEDULE_SAME_PROC_FIRST	85
1.3.242.	MAX_BG_SESSION_COUNT	85
1.3.243.	MAX_SESSION_COUNT	86
1.3.244.	MEMORY_MAX_TARGET	86
1.3.245.	MEMORY_MODEL	87
1.3.246.	MEMORY_TABLESPACE_SIZE	87
1.3.247.	MEMORY_TARGET	87
1.3.248.	MEM_LOG_DEST	88
1.3.249.	NAMED_PIPE_DIR	88
1.3.250.	NBU_ARCHIVELOG_SEARCH	88

1.3.251.	NBU_ARCHIVE_POLICY_NAME	89
1.3.252.	NBU_ARCHIVE_RETRY_CNT	89
1.3.253.	NBU_BACKUP_INST_SID	89
1.3.254.	NBU_BACKUP_POLICY_NAME	90
1.3.255.	NBU_BSA_API_VERSION	90
1.3.256.	NBU_CLIENT_COUNT	90
1.3.257.	NBU_CLIENT_HOSTNAME_0	91
1.3.258.	NBU_CLIENT_HOSTNAME_1	91
1.3.259.	NBU_CLIENT_HOSTNAME_2	91
1.3.260.	NBU_CLIENT_HOSTNAME_3	92
1.3.261.	NBU_CLIENT_HOSTNAME_4	92
1.3.262.	NBU_CLIENT_HOSTNAME_5	92
1.3.263.	NBU_CLIENT_HOSTNAME_6	93
1.3.264.	NBU_CLIENT_HOSTNAME_7	93
1.3.265.	NBU_CLIENT_HOSTNAME_8	93
1.3.266.	NBU_CLIENT_HOSTNAME_9	94
1.3.267.	NBU_CLIENT_HOST_NAME	94
1.3.268.	NBU_MASTER_HOST_NAME	94
1.3.269.	NBU_OBJ_OWNER_GROUP_NAME	95
1.3.270.	NBU_OBJ_OWNER_NAME	95
1.3.271.	NBU_PROC_WTHR_CNT	95
1.3.272.	NBU_SCHEDULE_NAME	96
1.3.273.	NBU_SKIP_HOST_CHECK	96
1.3.274.	NLS_CALENDAR	96
1.3.275.	NLS_COMP	97
1.3.276.	NLS_CURRENCY	97
1.3.277.	NLS_DATE_FORMAT	97
1.3.278.	NLS_DATE_LANGUAGE	98
1.3.279.	NLS_DUAL_CURRENCY	98
1.3.280.	NLS_ISO_CURRENCY	98
1.3.281.	NLS_LANGUAGE	99
1.3.282.	NLS_LANG_AT_BOOT	99
1.3.283.	NLS_LENGTH_SEMANTICS	99
1.3.284.	NLS_NUMERIC_CHARACTERS	100
1.3.285.	NLS_SORT	100
1.3.286.	NLS_TERRITORY	101
1.3.287.	NLS_TIMESTAMP_FORMAT	101
1.3.288.	NLS_TIMESTAMP_TZ_FORMAT	101
1.3.289.	NLS_TIME_FORMAT	102
1.3.290.	NLS_TIME_TZ_FORMAT	102
1.3.291.	NTF_LISTEN_PORT	102
1.3.292.	OMIT_PSM_SQL_LOG_ON_MEMORY	103
1.3.293.	OPEN_CURSORS	103

1.3.294.	OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES	103
1.3.295.	OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES_DURATION	104
1.3.296.	OPTIMIZER_LOG_OUTLINE	104
1.3.297.	OPTIMIZER_MODE	104
1.3.298.	OPTIMIZER_TRACE	105
1.3.299.	OPTIMIZER_USE_INVISIBLE_INDEXES	105
1.3.300.	OPTIMIZER_USE_SQL_PLAN_BASELINES	105
1.3.301.	OPTIMIZER_USE_SQL_PROFILES	106
1.3.302.	OS_AUTH_PREFIX	106
1.3.303.	PARALLEL_DEFAULT_DOP	106
1.3.304.	PARALLEL_GRANULE_SIZE	107
1.3.305.	PARALLEL_THREADS_PER_CPU	107
1.3.306.	PEP_PROC_CNT	107
1.3.307.	PP_SAVE_SYS_BINDVAR	108
1.3.308.	PRIVKEY_FILE	108
1.3.309.	PSM_CODE_TYPE	108
1.3.310.	PSM_DEBUG	109
1.3.311.	PSM_ERROR_CONV	109
1.3.312.	PSM_SHLIB_DIR	109
1.3.313.	PSM_SQL_RESULT_CACHE	110
1.3.314.	QUERY_REWRITE_ENABLED	110
1.3.315.	QUERY_REWRITE_INTEGRITY	110
1.3.316.	RECO_PROC_WTHR_CNT	111
1.3.317.	RESULT_CACHE_MAX_RATIO	111
1.3.318.	RESULT_CACHE_MAX_SIZE	111
1.3.319.	RESULT_CACHE_MODE	112
1.3.320.	RESUMABLE_SPACE_ALLOC	112
1.3.321.	RESUMABLE_SPACE_ALLOC_TIMEOUT	113
1.3.322.	RMGR_BACKUP_DEST	113
1.3.323.	RMGR_CATALOG_SID	113
1.3.324.	RMGR_NBU_BACKUP_DEST	114
1.3.325.	RMGR_PRIMARY_SID	114
1.3.326.	RMGR_RESTORE_BACKUP_CF	114
1.3.327.	RMGR_TAR_PATH	115
1.3.328.	RSBTBL_BUCKET_CNT_PER_ROOT_LIST_FOR_RECONFIGURATION	115
1.3.329.	RSRC_CHECK_INTERVAL	115
1.3.330.	RSRC_CONTROL_THRESHOLD	116
1.3.331.	RT_AWAKE_WAITER_INTERVAL	116
1.3.332.	RT_UPDATE_ALLOWABLE_INFLOW_CNT_INTERVAL	116
1.3.333.	SANITY_CHECK_DURING_LOG_SWITCH	117
1.3.334.	SEGMENT_EXTEND_LAST	117
1.3.335.	SEM_KEY	117
1.3.336.	SEM_SET_COUNT	118

1.3.337.	SEPARATION_OF_DUTIES	118
1.3.338.	SERVER_LOAD_TOLERANCE	118
1.3.339.	SERVER_SIDE_LOAD_BALANCE	119
1.3.340.	SERVICE_CONTROL_STOP_DOWNMODE	119
1.3.341.	SHARED_PARAMETER_FILE	120
1.3.342.	SHM_KEY	120
1.3.343.	SHP_ALLOC_DUMP_IDX	120
1.3.344.	SHP_ALLOC_FULL_DUMP	121
1.3.345.	SLAB_BLOCK_RESERVED_COUNT	121
1.3.346.	SLOG_DEST	121
1.3.347.	SLOG_DISPLAY_YEAR	122
1.3.348.	SLOG_FILE_SIZE	122
1.3.349.	SLOG_HISTORY	122
1.3.350.	SLOG_HISTORY_BUFSIZE	123
1.3.351.	SLOG_HISTORY_QSIZE	123
1.3.352.	SLOG_TOTAL_SIZE_LIMIT	123
1.3.353.	SLOG_VIEW_SIZE	124
1.3.354.	SORT_AREA_SIZE	124
1.3.355.	SPIN_PARAMETER_AUTO_ADJUST	124
1.3.356.	SPIN_PARAMETER_PER_TYPE	125
1.3.357.	SQLTUNE_CATEGORY	125
1.3.358.	SQL_LOG_ON_MEMORY	125
1.3.359.	SQL_LOG_ON_MEMORY_SIZE	126
1.3.360.	SQL_STAT_HISTORY	126
1.3.361.	SQL_STAT_HISTORY_QSIZE	126
1.3.362.	SQL_STAT_HISTORY_THRESHOLD	127
1.3.363.	SQL_TRACE	127
1.3.364.	SQL_TRACE_DEST	128
1.3.365.	SQL_TRACE_LEVEL	128
1.3.366.	SQL_TRANSLATION_PROFILE	128
1.3.367.	SSVR_FC_DIRTY_BIN_RATIO_MAX	129
1.3.368.	SSVR_FC_FREE_BIN_RATIO	129
1.3.369.	SSVR_FC_WS_CNT	129
1.3.370.	SSVR_RECV_PORT_START	130
1.3.371.	SSVR_TPM_SENDER_INTERVAL	130
1.3.372.	SSVR_USE_AGNT	130
1.3.373.	SSVR_USE_FC	131
1.3.374.	SSVR_USE_IB	131
1.3.375.	SSVR_USE_SDM	131
1.3.376.	SSVR_USE_TCP	132
1.3.377.	SSVR_USE_TPM	132
1.3.378.	SSVR_WTHR_CNT	132
1.3.379.	STANDBY_ENABLE_CASCADE	133

1.3.380.	STANDBY_ENABLE_LOG_RECOVERY	133
1.3.381.	STANDBY_ENABLE_TAC_MULTINODE	133
1.3.382.	STANDBY_FILE_NAME_CONVERT	134
1.3.383.	STANDBY_FLUSH_WAIT	134
1.3.384.	STANDBY_LOG_ARCHIVE_DEST	134
1.3.385.	STANDBY_LOG_ARCHIVE_FORMAT	135
1.3.386.	STANDBY_USE_OBSERVER	135
1.3.387.	STAR_TRANSFORMATION_ENABLED	135
1.3.388.	STORAGE_PROCESSING	136
1.3.389.	SUMMARY_FIRST_IN_GROUPBY_CUBE	136
1.3.390.	TABLE_GLOBAL_COMPRESSION	136
1.3.391.	TAS5_STORAGE_MODE	137
1.3.392.	TAS_DB_UUID	137
1.3.393.	TAS_OPEN_FILE_MAX	137
1.3.394.	TAS_SERVER_IP	138
1.3.395.	TAS_VM_ADDR	138
1.3.396.	TAS_VM_PORT	138
1.3.397.	TCP_RCVBUF_SIZE	138
1.3.398.	TCP_SNDBUF_SIZE	139
1.3.399.	TDE_HASH_VERIFICATION	139
1.3.400.	TDE_SELF_UPDATE_MODIFICATION_DEFENCE	139
1.3.401.	TEMP_GRANULE_SIZE	140
1.3.402.	TEMP_TS_CNT_MAX	140
1.3.403.	THREAD	140
1.3.404.	THROW_WHEN_GETTING_OSSTAT_FAIL	141
1.3.405.	TIBERO_PERFORMANCE_REPOSITORY	141
1.3.406.	TOTAL_SHM_MAX_SIZE	141
1.3.407.	TOTAL_SHM_SIZE	142
1.3.408.	TPR_AGGREGATION	142
1.3.409.	TPR_METRIC	142
1.3.410.	TPR_SEGMENT_STATISTICS	143
1.3.411.	TPR_SNAPSHOT_RETENTION	143
1.3.412.	TPR_SNAPSHOT_SAMPLING_INTERVAL	143
1.3.413.	TPR_SNAPSHOT_TOP_SEGMENT_CNT	144
1.3.414.	TPR_SNAPSHOT_TOP_SQL_CNT	144
1.3.415.	TPR_SQL_PLAN_STAT	144
1.3.416.	TRACE_DUMP_DEST	145
1.3.417.	TRACE_LOG_DEST	145
1.3.418.	TRACE_LOG_FILE_SIZE	146
1.3.419.	TRACE_LOG_TOTAL_SIZE_LIMIT	146
1.3.420.	TSAM_PREFETCH_SIZE	146
1.3.421.	TSN_SYNC_UDP_PORT	147
1.3.422.	TX_FORCE_COMMIT_DUMP	147

1.3.423.	UNDO_RETENTION	147
1.3.424.	UNDO_TABLESPACE	148
1.3.425.	USE_ACCURATE_NUMERIC_FUNC	148
1.3.426.	USE_ACTIVE_STORAGE	148
1.3.427.	USE_AD_AUTH	149
1.3.428.	USE_BINARY_UPDATE	149
1.3.429.	USE_HUGE_PAGE	149
1.3.430.	USE_ILOG	150
1.3.431.	USE_NBU_FOR_ARCHIVELOG	150
1.3.432.	USE_NBU_FOR_BACKUPSET	150
1.3.433.	USE_NET_KEEPALIVE	151
1.3.434.	USE_PROFILE	151
1.3.435.	USE_PROFILE_LOGIN_LOGOUT_TIME	151
1.3.436.	USE_RECYCLEBIN	152
1.3.437.	USE_RESOURCE_MANAGER	152
1.3.438.	USE_STANDBY_REDO_LOG	152
1.3.439.	USE_STORED_OUTLINES	153
1.3.440.	USE_TRUNCATE_PRIVILEGE	153
1.3.441.	USE_TS_QUOTA	153
1.3.442.	USGMT_AUTO_SHRINK_INTERVAL	154
1.3.443.	USGMT_ONLINE_MAX	154
1.3.444.	USGMT_ONLINE_MIN	154
1.3.445.	UTL_FILE_DIR	155
1.3.446.	WALLET_FILE	155
1.3.447.	WTHR_PER_PEP	155
1.3.448.	WTHR_PER_PROC	156
1.3.449.	WTHR_PROC_CNT	156
1.3.450.	WTHR_PROC_CNT_MAX	156
1.3.451.	XA_MAX_BRANCH_CNT	157
1.3.452.	XA_TIMER_INTERVAL	157
제2장	데이터 사전	159
2.1.	개요	159
2.2.	데이터 사전의 구조	160
2.2.1.	기반 테이블	160
2.2.2.	정적/동적 뷰	161
2.3.	데이터 사전의 참조	161
2.3.1.	일반 사용자에게 의한 참조	161
2.3.2.	SQL 파서, 질의 최적화기에 의한 참조	162
2.3.3.	Tibero에 의한 참조	163
2.4.	데이터 사전의 갱신	164
2.4.1.	DDL 문장	164
제3장	Static View	167

3.1.	Overview	167
3.2.	List of Static Views	167
3.2.1.	ALL_ARGUMENTS	183
3.2.2.	ALL_CATALOG	184
3.2.3.	ALL_COLL_TYPES	185
3.2.4.	ALL_COL_COMMENTS	185
3.2.5.	ALL_COL_PRIVS	186
3.2.6.	ALL_COL_PRIVS_MADE	187
3.2.7.	ALL_COL_PRIVS_RECD	187
3.2.8.	ALL_CONSTRAINTS	188
3.2.9.	ALL_CONS_COLUMNS	190
3.2.10.	ALL_CONS_COLUMNS_INFO	190
3.2.11.	ALL_DB_LINKS	191
3.2.12.	ALL_DEPENDENCIES	192
3.2.13.	ALL_DIRECTORIES	193
3.2.14.	ALL_ENCRYPTED_COLUMNS	193
3.2.15.	ALL_ERRORS	194
3.2.16.	ALL_EXTERNAL_LOCATIONS	195
3.2.17.	ALL_EXTERNAL_TABLES	195
3.2.18.	ALL_IDX_AND_LOB_COLUMNS_INFO	196
3.2.19.	ALL_IDX_COLUMNS	196
3.2.20.	ALL_IDX_COLUMNS_INFO	197
3.2.21.	ALL_IDX_EXPRESSIONS	198
3.2.22.	ALL_IDX_SUBPARTITIONS	199
3.2.23.	ALL_INDEXES	200
3.2.24.	ALL_IND_COLUMNS	203
3.2.25.	ALL_IND_EXPRESSIONS	204
3.2.26.	ALL_IND_SUBPARTITIONS	204
3.2.27.	ALL_JAVA_ARGUMENTS	206
3.2.28.	ALL_JAVA_CLASSES	206
3.2.29.	ALL_JAVA_FIELDS	207
3.2.30.	ALL_JAVA_METHODS	208
3.2.31.	ALL_JOBS	209
3.2.32.	ALL_JOBS_WITH_NAME	210
3.2.33.	ALL_LIBRARIES	211
3.2.34.	ALL_LOBS	212
3.2.35.	ALL_LOB_PARTITIONS	213
3.2.36.	ALL_LOB_SUBPARTITIONS	215
3.2.37.	ALL_LOG_GROUPS	216
3.2.38.	ALL_LOG_GROUP_COLUMNS	217
3.2.39.	ALL_METHOD_PARAMS	218
3.2.40.	ALL_METHOD_RESULTS	218
3.2.41.	ALL_MVIEWS	219

3.2.42.	ALL_MVIEW_COMMENTS	222
3.2.43.	ALL_MVIEW_DETAIL_RELATIONS	222
3.2.44.	ALL_MVIEW_LOGS	223
3.2.45.	ALL_MVIEW_REFRESH_TIMES	224
3.2.46.	ALL_OBJECTS	224
3.2.47.	ALL_PACKAGE_COLL_TYPES	226
3.2.48.	ALL_PACKAGE_MEMBER_TYPES	227
3.2.49.	ALL_PACKAGE_TYPES	228
3.2.50.	ALL_PART_INDEXES	229
3.2.51.	ALL_PART_KEY_COLUMNS	230
3.2.52.	ALL_PART_LOBS	231
3.2.53.	ALL_PART_TABLES	232
3.2.54.	ALL_PROCEDURES	233
3.2.55.	ALL_QUEUES	234
3.2.56.	ALL_QUEUE_SUBSCRIBERS	235
3.2.57.	ALL_QUEUE_TABLES	236
3.2.58.	ALL_RECYCLEBIN	237
3.2.59.	ALL_SCHEDULER_CHAINS	238
3.2.60.	ALL_SCHEDULER_JOBS	239
3.2.61.	ALL_SCHEDULER_JOB_LOG	242
3.2.62.	ALL_SCHEDULER_JOB_RUN_DETAILS	243
3.2.63.	ALL_SCHEDULER_PROGRAMS	244
3.2.64.	ALL_SCHEDULER_RULES	245
3.2.65.	ALL_SCHEDULER_RULE_CTX	246
3.2.66.	ALL_SCHEDULER_RUNNING_JOBS	246
3.2.67.	ALL_SCHEDULER_SCHEDULES	249
3.2.68.	ALL_SCHEDULER_STEPS	250
3.2.69.	ALL_SCHEDULER_STEP_CTX	251
3.2.70.	ALL_SEGMENTS	252
3.2.71.	ALL_SEQUENCES	253
3.2.72.	ALL_SOURCE	254
3.2.73.	ALL_SUBPART_KEY_COLUMNS	255
3.2.74.	ALL_SYNONYMS	256
3.2.75.	ALL_TABLES	256
3.2.76.	ALL_TAB_COLS	259
3.2.77.	ALL_TAB_COLUMNS	261
3.2.78.	ALL_TAB_COL_STATISTICS	262
3.2.79.	ALL_TAB_COMMENTS	263
3.2.80.	ALL_TAB_HISTOGRAMS	264
3.2.81.	ALL_TAB_IDENTITY_COLS	264
3.2.82.	ALL_TAB_PARTITIONS	265
3.2.83.	ALL_TAB_PRIVS	267
3.2.84.	ALL_TAB_PRIVS_MADE	268

3.2.85.	ALL_TAB_PRIVS_RECD	268
3.2.86.	ALL_TAB_SUBPARTITIONS	269
3.2.87.	ALL_TBL_COLS	271
3.2.88.	ALL_TBL_COLUMNS	272
3.2.89.	ALL_TBL_COLUMNS_WITH_DNO	274
3.2.90.	ALL_TBL_COL_STATISTICS	275
3.2.91.	ALL_TBL_COMMENTS	276
3.2.92.	ALL_TBL_HISTOGRAMS	277
3.2.93.	ALL_TBL_PARTITIONS	277
3.2.94.	ALL_TBL_PRIVS	279
3.2.95.	ALL_TBL_PRIVS_MADE	280
3.2.96.	ALL_TBL_PRIVS_RECD	281
3.2.97.	ALL_TBL_SUBPARTITIONS	282
3.2.98.	ALL_TRIGGERS	283
3.2.99.	ALL_TRIGGER_COLS	284
3.2.100.	ALL_TYPES	285
3.2.101.	ALL_TYPE_ATTRS	286
3.2.102.	ALL_TYPE_METHODS	287
3.2.103.	ALL_UPDATABLE_COLUMNS	288
3.2.104.	ALL_USERS	288
3.2.105.	ALL_VIEWS	289
3.2.106.	ALL_VIEWS_INTERNAL	289
3.2.107.	CTX_PREFERENCES	290
3.2.108.	CTX_PREFERENCE_VALUES	290
3.2.109.	DATABASE_PROPERTIES	290
3.2.110.	DBA_2PC_NEIGHBORS	291
3.2.111.	DBA_2PC_PENDING	292
3.2.112.	DBA_AUDIT_POLICIES	292
3.2.113.	DBA_AUDIT_TRAIL	293
3.2.114.	DBA_CATALOG	294
3.2.115.	DBA_COLL_TYPES	294
3.2.116.	DBA_COL_COMMENTS	295
3.2.117.	DBA_COL_PRIVS	295
3.2.118.	DBA_CONSTRAINTS	295
3.2.119.	DBA_CONS_COLUMNS	295
3.2.120.	DBA_DATAFILES	296
3.2.121.	DBA_DATA_FILES	296
3.2.122.	DBA_DB_LINKS	297
3.2.123.	DBA_DDL_LOCKS	298
3.2.124.	DBA_DEPENDENCIES	298
3.2.125.	DBA_DIRECTORIES	298
3.2.126.	DBA_DML_LOCKS	299
3.2.127.	DBA_ENCRYPTED_COLUMNS	300

3.2.128.	DBA_ERRORS	300
3.2.129.	DBA_EXTENTS	300
3.2.130.	DBA_EXTERNAL_LOCATIONS	301
3.2.131.	DBA_EXTERNAL_TABLES	301
3.2.132.	DBA_FGA_AUDIT_TRAIL	301
3.2.133.	DBA_FREE_SPACE	301
3.2.134.	DBA_HIST_ACTIVE_SESS_HISTORY	302
3.2.135.	DBA_HIST_FILESTAT	304
3.2.136.	DBA_HIST_LATCH	305
3.2.137.	DBA_HIST_LIBRARYCACHE	305
3.2.138.	DBA_HIST_OSSTAT	306
3.2.139.	DBA_HIST_PGASTAT	306
3.2.140.	DBA_HIST_PROCESS_MEM_SUMMARY	307
3.2.141.	DBA_HIST_SEG_STAT	307
3.2.142.	DBA_HIST_SGASTAT	308
3.2.143.	DBA_HIST_SNAPSHOT	308
3.2.144.	DBA_HIST_SQLBIND	308
3.2.145.	DBA_HIST_SQLSTAT	309
3.2.146.	DBA_HIST_SQLTEXT	310
3.2.147.	DBA_HIST_SQL_PLAN	310
3.2.148.	DBA_HIST_SQL_WORKAREA_HSTGRM	312
3.2.149.	DBA_HIST_SYSMETRIC_SUMMARY	313
3.2.150.	DBA_HIST_SYSTEM_EVENT	313
3.2.151.	DBA_HIST_UNDOSTAT	314
3.2.152.	DBA_HIST_WAITSTAT	315
3.2.153.	DBA_IDX_COLUMNS	315
3.2.154.	DBA_IDX_EXPRESSIONS	315
3.2.155.	DBA_IDX_SUBPARTITIONS	316
3.2.156.	DBA_INDEXES	316
3.2.157.	DBA_IND_COLUMNS	316
3.2.158.	DBA_IND_EXPRESSIONS	317
3.2.159.	DBA_IND_SUBPARTITIONS	318
3.2.160.	DBA_JAVA_ARGUMENTS	319
3.2.161.	DBA_JAVA_CLASSES	319
3.2.162.	DBA_JAVA_FIELDS	319
3.2.163.	DBA_JAVA_METHODS	320
3.2.164.	DBA_JOBS	320
3.2.165.	DBA_JOBS_WITH_NAME	320
3.2.166.	DBA_LIBRARIES	320
3.2.167.	DBA_LOBS	321
3.2.168.	DBA_LOB_PARTITIONS	321
3.2.169.	DBA_LOB_SUBPARTITIONS	321
3.2.170.	DBA_LOG_GROUPS	321

3.2.171.	DBA_LOG_GROUP_COLUMNS	321
3.2.172.	DBA_METHOD_PARAMS	322
3.2.173.	DBA_METHOD_RESULTS	322
3.2.174.	DBA_MVIEWS	322
3.2.175.	DBA_MVIEW_COMMENTS	322
3.2.176.	DBA_MVIEW_DETAIL_RELATIONS	323
3.2.177.	DBA_MVIEW_LOGS	323
3.2.178.	DBA_MVIEW_REFRESH_TIMES	323
3.2.179.	DBA_OBJECTS	323
3.2.180.	DBA_OBJ_AUDIT_OPTS	324
3.2.181.	DBA_PACKAGE_COLL_TYPES	325
3.2.182.	DBA_PACKAGE_MEMBER_TYPES	325
3.2.183.	DBA_PACKAGE_TYPES	325
3.2.184.	DBA_PART_INDEXES	325
3.2.185.	DBA_PART_KEY_COLUMNS	326
3.2.186.	DBA_PART_LOBS	326
3.2.187.	DBA_PART_TABLES	326
3.2.188.	DBA_PRIV_AUDIT_OPTS	326
3.2.189.	DBA_PROCEDURES	327
3.2.190.	DBA_PROFILES	327
3.2.191.	DBA_QUEUES	327
3.2.192.	DBA_QUEUE_SUBSCRIBERS	328
3.2.193.	DBA_QUEUE_TABLES	328
3.2.194.	DBA_RECYCLEBIN	328
3.2.195.	DBA_REDEFINITION_OBJECTS	329
3.2.196.	DBA_ROLES	329
3.2.197.	DBA_ROLE_PRIVS	330
3.2.198.	DBA_ROLLBACK_SEGS	330
3.2.199.	DBA_SCHEDULER_CHAINS	331
3.2.200.	DBA_SCHEDULER_JOBS	331
3.2.201.	DBA_SCHEDULER_JOB_LOG	332
3.2.202.	DBA_SCHEDULER_JOB_RUN_DETAILS	332
3.2.203.	DBA_SCHEDULER_PROGRAMS	332
3.2.204.	DBA_SCHEDULER_RULES	332
3.2.205.	DBA_SCHEDULER_RULE_CTX	332
3.2.206.	DBA_SCHEDULER_RUNNING_JOBS	333
3.2.207.	DBA_SCHEDULER_SCHEDULES	333
3.2.208.	DBA_SCHEDULER_STEPS	333
3.2.209.	DBA_SCHEDULER_STEP_CTX	333
3.2.210.	DBA_SEGMENTS	334
3.2.211.	DBA_SEQUENCES	335
3.2.212.	DBA_SOURCE	335
3.2.213.	DBA_SQL_PLAN_BASELINES	336

3.2.214.	DBA_SQL_PROFILES	337
3.2.215.	DBA_SUBPART_KEY_COLUMNS	338
3.2.216.	DBA_SYNONYMS	338
3.2.217.	DBA_SYS_PRIVS	339
3.2.218.	DBA_TABLES	339
3.2.219.	DBA_TABLESPACES	339
3.2.220.	DBA_TAB_COLS	341
3.2.221.	DBA_TAB_COLUMNS	342
3.2.222.	DBA_TAB_COL_STATISTICS	344
3.2.223.	DBA_TAB_COMMENTS	345
3.2.224.	DBA_TAB_HISTOGRAMS	345
3.2.225.	DBA_TAB_IDENTITY_COLS	346
3.2.226.	DBA_TAB_PARTITIONS	346
3.2.227.	DBA_TAB_PRIVS	348
3.2.228.	DBA_TAB_SUBPARTITIONS	349
3.2.229.	DBA_TBL_COLS	350
3.2.230.	DBA_TBL_COLUMNS	351
3.2.231.	DBA_TBL_COL_STATISTICS	351
3.2.232.	DBA_TBL_COMMENTS	351
3.2.233.	DBA_TBL_HISTOGRAMS	352
3.2.234.	DBA_TBL_PARTITIONS	352
3.2.235.	DBA_TBL_PRIVS	352
3.2.236.	DBA_TBL_SUBPARTITIONS	353
3.2.237.	DBA_TEMPFILES	353
3.2.238.	DBA_TEMP_FILES	354
3.2.239.	DBA_TRIGGERS	355
3.2.240.	DBA_TRIGGER_COLS	355
3.2.241.	DBA_TS_QUOTAS	355
3.2.242.	DBA_TYPES	356
3.2.243.	DBA_TYPE_ATTRS	356
3.2.244.	DBA_TYPE_METHODS	356
3.2.245.	DBA_UNDO_EXTENTS	356
3.2.246.	DBA_UNDO_SGMTS	357
3.2.247.	DBA_UPDATABLE_COLUMNS	358
3.2.248.	DBA_USERS	358
3.2.249.	DBA_VIEWS	359
3.2.250.	DBMSHSXP_SQL_PROFILE_ATTR	360
3.2.251.	DICTIONARY	360
3.2.252.	NLS_DATABASE_PARAMETERS	360
3.2.253.	NLS_SESSION_PARAMETERS	360
3.2.254.	PUBLICSYN	361
3.2.255.	ROLE_ROLE_PRIVS	361
3.2.256.	ROLE_SYS_PRIVS	362

3.2.257.	ROLE_TAB_PRIVS	362
3.2.258.	SESSION_CONTEXT	363
3.2.259.	SESSION_PRIVS	363
3.2.260.	SESSION_ROLES	363
3.2.261.	SYS_OBJECTS	363
3.2.262.	USER_ARGUMENTS	364
3.2.263.	USER_AUDIT_TRAIL	364
3.2.264.	USER_CATALOG	365
3.2.265.	USER_COLL_TYPES	365
3.2.266.	USER_COL_COMMENTS	366
3.2.267.	USER_COL_PRIVS	366
3.2.268.	USER_COL_PRIVS_MADE	366
3.2.269.	USER_COL_PRIVS_RECD	366
3.2.270.	USER_CONSTRAINTS	366
3.2.271.	USER_CONS_COLUMNS	367
3.2.272.	USER_DB_LINKS	367
3.2.273.	USER_DEPENDENCIES	367
3.2.274.	USER_ENCRYPTED_COLUMNS	367
3.2.275.	USER_ERRORS	368
3.2.276.	USER_EXTENTS	368
3.2.277.	USER_EXTERNAL_LOCATIONS	369
3.2.278.	USER_EXTERNAL_TABLES	369
3.2.279.	USER_FREE_SPACE	369
3.2.280.	USER_IDX_COLUMNS	370
3.2.281.	USER_IDX_EXPRESSIONS	370
3.2.282.	USER_INDEXES	370
3.2.283.	USER_IND_COLUMNS	370
3.2.284.	USER_IND_EXPRESSIONS	371
3.2.285.	USER_JAVA_ARGUMENTS	372
3.2.286.	USER_JAVA_CLASSES	372
3.2.287.	USER_JAVA_FIELDS	372
3.2.288.	USER_JAVA_METHODS	373
3.2.289.	USER_JOBS	373
3.2.290.	USER_JOBS_WITH_NAME	373
3.2.291.	USER_LIBRARIES	373
3.2.292.	USER_LOBS	374
3.2.293.	USER_LOB_PARTITIONS	374
3.2.294.	USER_LOB_SUBPARTITIONS	374
3.2.295.	USER_LOG_GROUPS	374
3.2.296.	USER_LOG_GROUP_COLUMNS	374
3.2.297.	USER_METHOD_PARAMS	375
3.2.298.	USER_METHOD_RESULTS	375
3.2.299.	USER_MVIEWS	375

3.2.300.	USER_MVIEW_COMMENTS	375
3.2.301.	USER_MVIEW_LOGS	376
3.2.302.	USER_MVIEW_REFRESH_TIMES	376
3.2.303.	USER_OBJECTS	376
3.2.304.	USER_OBJ_AUDIT_OPTS	376
3.2.305.	USER_PACKAGE_COLL_TYPES	377
3.2.306.	USER_PACKAGE_MEMBER_TYPES	378
3.2.307.	USER_PACKAGE_TYPES	378
3.2.308.	USER_PART_INDEXES	378
3.2.309.	USER_PART_KEY_COLUMNS	378
3.2.310.	USER_PART_LOBS	379
3.2.311.	USER_PART_TABLES	379
3.2.312.	USER_PROCEDURES	379
3.2.313.	USER_QUEUES	379
3.2.314.	USER_QUEUE_SUBSCRIBERS	379
3.2.315.	USER_QUEUE_TABLES	380
3.2.316.	USER_RECYCLEBIN	380
3.2.317.	USER_ROLE_PRIVS	380
3.2.318.	USER_SCHEDULER_CHAINS	381
3.2.319.	USER_SCHEDULER_JOBS	381
3.2.320.	USER_SCHEDULER_JOB_LOG	381
3.2.321.	USER_SCHEDULER_JOB_RUN_DETAILS	382
3.2.322.	USER_SCHEDULER_PROGRAMS	382
3.2.323.	USER_SCHEDULER_RULES	382
3.2.324.	USER_SCHEDULER_RULE_CTX	382
3.2.325.	USER_SCHEDULER_RUNNING_JOBS	382
3.2.326.	USER_SCHEDULER_SCHEDULES	383
3.2.327.	USER_SCHEDULER_STEPS	383
3.2.328.	USER_SCHEDULER_STEP_CTX	383
3.2.329.	USER_SEGMENTS	383
3.2.330.	USER_SEQUENCES	384
3.2.331.	USER_SOURCE	384
3.2.332.	USER_SUBPART_KEY_COLUMNS	384
3.2.333.	USER_SYNONYMS	384
3.2.334.	USER_SYS_PRIVS	384
3.2.335.	USER_TABLES	385
3.2.336.	USER_TABLESPACES	385
3.2.337.	USER_TAB_COLS	387
3.2.338.	USER_TAB_COLUMNS	388
3.2.339.	USER_TAB_COL_STATISTICS	390
3.2.340.	USER_TAB_COMMENTS	391
3.2.341.	USER_TAB_HISTOGRAMS	391
3.2.342.	USER_TAB_IDENTITY_COLS	392

3.2.343.	USER_TAB_PARTITIONS	392
3.2.344.	USER_TAB_PRIVS	394
3.2.345.	USER_TAB_PRIVS_MADE	394
3.2.346.	USER_TAB_PRIVS_RECD	395
3.2.347.	USER_TBL_COLS	396
3.2.348.	USER_TBL_COLUMNS	396
3.2.349.	USER_TBL_COL_STATISTICS	397
3.2.350.	USER_TBL_COMMENTS	397
3.2.351.	USER_TBL_HISTOGRAMS	397
3.2.352.	USER_TBL_PARTITIONS	398
3.2.353.	USER_TBL_PRIVS	398
3.2.354.	USER_TBL_PRIVS_MADE	398
3.2.355.	USER_TBL_PRIVS_RECD	399
3.2.356.	USER_TRIGGERS	399
3.2.357.	USER_TRIGGER_COLS	399
3.2.358.	USER_TYPES	400
3.2.359.	USER_TYPE_ATTRS	400
3.2.360.	USER_TYPE_METHODS	400
3.2.361.	USER_UPDATABLE_COLUMNS	400
3.2.362.	USER_USERS	401
3.2.363.	USER_VIEWS	401
3.2.364.	all_dba_subpartition_templates	402
3.2.365.	all_idx_partitions	402
3.2.366.	all_ind_partitions	404
3.2.367.	dba_idx_partitions	406
3.2.368.	dba_ind_partitions	408
3.2.369.	dba_subpartition_templates	410
3.2.370.	user_idx_partitions	410
3.2.371.	user_ind_partitions	412
제4장	Dynamic View	415
4.1.	Overview	415
4.2.	List of Dynamic Views	415
4.2.1.	V\$ACCESS	422
4.2.2.	V\$ACTIVE_SESSION_HISTORY	422
4.2.3.	V\$ALL_FILESTAT	424
4.2.4.	V\$ARCHIVED_LOG	425
4.2.5.	V\$ARCHIVE_DEST_FILES	426
4.2.6.	V\$AS_ALIAS	427
4.2.7.	V\$AS_DISK	427
4.2.8.	V\$AS_DISKSPACE	428
4.2.9.	V\$AS_DISK_HISTORY	429
4.2.10.	V\$AS_EXTENT_MAP	429

4.2.11.	V\$AS_FILE	430
4.2.12.	V\$AS_OPERATION	431
4.2.13.	V\$AS_USER	431
4.2.14.	V\$AS_USERGROUP	432
4.2.15.	V\$AS_USERGROUP_MEMBER	432
4.2.16.	V\$AUTO_COALESCE	433
4.2.17.	V\$BACKUP	433
4.2.18.	V\$BACKUP_ARCHIVED_LOG	434
4.2.19.	V\$BACKUP_LIST	434
4.2.20.	V\$BACKUP_LIST_ARCHIVELOG	435
4.2.21.	V\$BACKUP_LIST_CONTROLFILE	435
4.2.22.	V\$BACKUP_LIST_DATAFILE	435
4.2.23.	V\$BACKUP_SET	436
4.2.24.	V\$BACKUP_SET_TABLESPACE	437
4.2.25.	V\$BG_SESSION	437
4.2.26.	V\$BG_SESSTAT	438
4.2.27.	V\$BH	439
4.2.28.	V\$BLOCKER_SESSION	440
4.2.29.	V\$BPARAMETERS	440
4.2.30.	V\$BUFFER_CACHE_ADVICE	440
4.2.31.	V\$BUFFER_POOL	441
4.2.32.	V\$BUFFER_POOL_STATISTICS	441
4.2.33.	V\$CHECKPOINT	442
4.2.34.	V\$CLUSTER_INTERCONNECTS	443
4.2.35.	V\$CONTEXT	443
4.2.36.	V\$CONTROLFILE	444
4.2.37.	V\$CORRUPT_XID	444
4.2.38.	V\$DATABASE	444
4.2.39.	V\$DATAFILE	445
4.2.40.	V\$DATAFILE_HEADER	446
4.2.41.	V\$DBFILE	447
4.2.42.	V\$DBLINK	448
4.2.43.	V\$DBLINK_STATUS	448
4.2.44.	V\$DB_PIPES	449
4.2.45.	V\$ENCRYPTED_TABLESPACES	449
4.2.46.	V\$ENCRYPTION_WALLET	449
4.2.47.	V\$ENQUEUE_STAT	450
4.2.48.	V\$EST_CHECKPOINT_TIME	450
4.2.49.	V\$EVENT_NAME	450
4.2.50.	V\$FILESTAT	451
4.2.51.	V\$FLASHBACK_ARCHIVED_LOG	452
4.2.52.	V\$FLASHBACK_LOG	453
4.2.53.	V\$FLASHBACK_MARKER	453

4.2.54.	V\$GLOBAL_TRANSACTION	454
4.2.55.	V\$INSTANCE	454
4.2.56.	V\$INSTANCEMETRIC	455
4.2.57.	V\$INSTANCEMETRIC_HISTORY	456
4.2.58.	V\$INTERCONNECTION	456
4.2.59.	V\$INTERCONNECT_LATENCY	457
4.2.60.	V\$IPARAM_DESC	457
4.2.61.	V\$LATCH	458
4.2.62.	V\$LIBRARYCACHE	458
4.2.63.	V\$LICENSE	459
4.2.64.	V\$LOCK	460
4.2.65.	V\$LOCKED_OBJECT	461
4.2.66.	V\$LOG	462
4.2.67.	V\$LOGFILE	462
4.2.68.	V\$LOG_HISTORY	463
4.2.69.	V\$MEDIA_RECOVERY_PROGRESS	463
4.2.70.	V\$MEMORY_TABLESPACE	464
4.2.71.	V\$METRIC	465
4.2.72.	V\$METRICNAME	466
4.2.73.	V\$MYSTAT	466
4.2.74.	V\$OBJECT_USAGE	466
4.2.75.	V\$OPEN_CURSOR	467
4.2.76.	V\$OSSTAT	468
4.2.77.	V\$OSSTAT2	468
4.2.78.	V\$OUTLINE	468
4.2.79.	V\$PARAMETERS	469
4.2.80.	V\$PATCH	469
4.2.81.	V\$PE_PESPLAN	469
4.2.82.	V\$PE_PESSTAT	470
4.2.83.	V\$PE_PROCESS	470
4.2.84.	V\$PE_SESSION	471
4.2.85.	V\$PE_SYSSTAT	471
4.2.86.	V\$PE_TQSTAT	472
4.2.87.	V\$PGASTAT	472
4.2.88.	V\$PROCESS	474
4.2.89.	V\$PROXY_SQLTEXT	474
4.2.90.	V\$PROXY_SQL_PARAM	475
4.2.91.	V\$RECOVERY_FILE_STATUS	475
4.2.92.	V\$RECOVERY_PROGRESS	476
4.2.93.	V\$RECOVERY_STATUS	476
4.2.94.	V\$RECOVER_FILE	477
4.2.95.	V\$RESERVED_WORDS	477
4.2.96.	V\$RESULT_CACHE_DEPENDENCY	478

4.2.97.	V\$RESULT_CACHE_OBJECTS	478
4.2.98.	V\$RESULT_CACHE_OBJECT_STATISTICS	479
4.2.99.	V\$RESULT_CACHE_STATISTICS	480
4.2.100.	V\$ROLLSTAT	480
4.2.101.	V\$ROWCACHE	481
4.2.102.	V\$RSBSTAT	481
4.2.103.	V\$RSRC_CONSUMER_GROUP	482
4.2.104.	V\$RSRC_PLAN	483
4.2.105.	V\$RSRC_SESSION_INFO	483
4.2.106.	V\$RUNNING_JOBS	484
4.2.107.	V\$RUNNING_JOBS_WITH_NAME	484
4.2.108.	V\$SEGMENT_STATISTICS	485
4.2.109.	V\$SESSION	485
4.2.110.	V\$SESSION_EVENT	489
4.2.111.	V\$SESSION_IO	489
4.2.112.	V\$SESSION_LONGOPS	490
4.2.113.	V\$SESSION_WAIT	491
4.2.114.	V\$SESSTAT	491
4.2.115.	V\$SESS_TIME_MODEL	492
4.2.116.	V\$SGA	492
4.2.117.	V\$SGASTAT	493
4.2.118.	V\$SHP_ADVICE	494
4.2.119.	V\$SLOG	494
4.2.120.	V\$SPINLOCK HOLDER	494
4.2.121.	V\$SPINUSE_STAT	495
4.2.122.	V\$SQL	495
4.2.123.	V\$SQLAREA	497
4.2.124.	V\$SQLSTATS	498
4.2.125.	V\$SQLTEXT	500
4.2.126.	V\$SQLTEXT2	501
4.2.127.	V\$SQLTEXT_WITH_NEWLINES	501
4.2.128.	V\$SQLTEXT_WITH_NEWLINES2	502
4.2.129.	V\$SQL_BIND_CAPTURE	503
4.2.130.	V\$SQL_BIND_CAPTURE_ALL	504
4.2.131.	V\$SQL_EXPC_INFO	504
4.2.132.	V\$SQL_MONITOR	505
4.2.133.	V\$SQL_PLAN	508
4.2.134.	V\$SQL_PLAN_MONITOR	509
4.2.135.	V\$SQL_PLAN_STATISTICS	512
4.2.136.	V\$SQL_WORKAREA	513
4.2.137.	V\$SQL_WORKAREA_HISTOGRAM	515
4.2.138.	V\$SSVR_CLIENT	516
4.2.139.	V\$SSVR_FLASHCACHE	516

4.2.140.	V\$SSVR_GRID_DISK	516
4.2.141.	V\$SSVR_IOLOAD	517
4.2.142.	V\$SSVR_IORM_CATEGORY_PLAN	518
4.2.143.	V\$SSVR_IORM_DB_PLAN	518
4.2.144.	V\$SSVR_IOSTAT	518
4.2.145.	V\$SSVR_MEMSTAT	519
4.2.146.	V\$SSVR_SLAB_STAT	520
4.2.147.	V\$SSVR_STORAGE_DISK	520
4.2.148.	V\$STANDBY	521
4.2.149.	V\$STANDBY_ARCHIVED_LOG	521
4.2.150.	V\$STANDBY_DEST	522
4.2.151.	V\$STANDBY_LOG	523
4.2.152.	V\$STANDBY_LOGFILE	524
4.2.153.	V\$STANDBY_STATUS	524
4.2.154.	V\$STATNAME	525
4.2.155.	V\$SYSSTAT	525
4.2.156.	V\$SYSSTAT_VALUE	526
4.2.157.	V\$SYSTEM_EVENT	526
4.2.158.	V\$SYSTEM_PARAMETERS	526
4.2.159.	V\$SYS_TIME_MODEL	527
4.2.160.	V\$TABLESPACE	527
4.2.161.	V\$TACSTAT	528
4.2.162.	V\$TEMPFILE	528
4.2.163.	V\$TEMPSEG_OP_USAGE	528
4.2.164.	V\$TEMPSEG_USAGE	529
4.2.165.	V\$TEMPSTAT	530
4.2.166.	V\$THRINFO	531
4.2.167.	V\$THR_ACT_INFO	532
4.2.168.	V\$THR_EVENT	532
4.2.169.	V\$TIMER	533
4.2.170.	V\$TIMEZONE_NAMES	533
4.2.171.	V\$TRANSACTION	533
4.2.172.	V\$TSN_TIME	535
4.2.173.	V\$UNDOSTAT	536
4.2.174.	V\$UNDO_FREE_SPACE	536
4.2.175.	V\$USGMT_TXENTRY	537
4.2.176.	V\$VERSION	538
4.2.177.	V\$WAITER_SESSION	538
4.2.178.	V\$WAITSTAT	538
4.2.179.	V\$WAITUSE_STAT	539
4.2.180.	V\$WAITUSE_THR_STAT	539

Appendix A. 초기화 파라미터의 설정 예제	541
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안내서에 대하여

안내서의 대상

본 안내서는 Tibero[®](이하 Tibero)를 사용하는 데 있어 필요한 초기화 파라미터, 데이터 사전, 정적 뷰, 동적 뷰의 개념과 사용법을 참조하려는 데이터베이스 관리자(Database Administrator, 이하 DBA), 시스템 관리자, 애플리케이션 프로그램 개발자를 대상으로 기술한다.

안내서의 전제 조건

본 안내서를 원활히 이해하기 위해서는 다음과 같은 사항을 미리 알고 있어야 한다.

- 데이터베이스의 이해
- DB의 이해
- SQL의 이해

안내서의 제한 조건

본 안내서는 Tibero를 실무에 적용하거나 운용하는 데 필요한 모든 사항을 포함하고 있지 않다. 따라서 설치, 환경설정 등 운용 및 관리에 대해서는 각 제품 안내서를 참고하기 바란다.

참고

Tibero의 설치 및 환경설정에 관한 내용은 "Tibero 설치 안내서"를 참고한다.

안내서 구성

Tibero 참조 안내서는 총 4개의 장과 Appendix로 이루어져 있다.

각 장의 주요 내용은 다음과 같다.

- 제1장: Introduction to Initialization Parameters

초기화 파라미터의 개념을 간략히 설명하고 Tibero가 제공하는 초기화 파라미터를 기술한다.

- 제2장: 데이터 사전

데이터 사전에 대한 개념과 구조를 설명하고 데이터 사전의 참조 및 갱신을 기술한다.

- 제3장: Static View

Tibero의 데이터 사전에서 제공하는 정적 뷰를 간략히 설명하고 이를 구성하는 컬럼을 기술한다.

- 제4장: Dynamic View

Tibero의 데이터 사전에서 제공하는 동적 뷰를 간략히 설명하고 이를 구성하는 컬럼을 기술한다.

- Appendix A.: 초기화 파라미터의 설정 예제

Tibero를 설치한 후 기본적으로 설정되는 초기화 파라미터를 기술한다.

안내서 규약

표기	의미
<<AaBbCc123>>	프로그램 소스 코드의 파일명
<Ctrl>+C	Ctrl과 C를 동시에 누름
[Button]	GUI의 버튼 또는 메뉴 이름
진하게	강조
" "(따옴표)	다른 관련 안내서 또는 안내서 내의 다른 장 및 절 언급
'입력항목'	화면 UI에서 입력 항목에 대한 설명
하이퍼링크	메일 계정, 웹 사이트
>	메뉴의 진행 순서
+----	하위 디렉터리 또는 파일 있음
----	하위 디렉터리 또는 파일 없음
<u>참고</u>	참고 또는 주의사항
<u>주의</u>	주의할 사항
[그림 1.1]	그림 이름
[예 1.1]	예제 이름
AaBbCc123	Java 코드, XML 문서
[command argument]	옵션 파라미터
< xyz >	'<'와 '>' 사이의 내용이 실제 값으로 변경됨
	선택 사항. 예) A B: A나 B 중 하나
...	파라미터 등이 반복되어서 나옴
\${ }	환경변수

시스템 사용 환경

	요구 사항
Platform	HP-UX 11i (IA64)
	Solaris (Solaris 11)
	AIX (PPC 5L/AIX 5.3)
	GNU (64)
	Linux kernel 3.10 이상
	Windows(x86) 32bit/64bit
Hardware	최소 2.5GB 하드디스크 공간
	1GB 이상 메모리 공간
Compiler	PSM (C99 지원 필요)
	tbESQL/C (C99 지원 필요)

관련 안내서

안내서	설명
Tibero 설치 안내서	설치 과정에 필요한 시스템 요구사항과 설치 및 제거 방법을 기술한 안내서이다.
Tibero tbCLI 안내서	Call Level Interface인 tbCLI의 개념과 구성요소, 프로그램 구조를 소개하고 tbCLI 프로그램을 작성하는 데 필요한 데이터 타입, 함수, 에러 메시지를 기술한 안내서이다.
Tibero 애플리케이션 개발자 안내서	각종 애플리케이션 라이브러리를 이용하여 애플리케이션 프로그램을 개발하는 방법을 기술한 안내서이다.
Tibero External Procedure 안내서	External Procedure를 소개하고 이를 생성하고 사용하는 방법을 기술한 안내서이다.
Tibero JDBC 개발자 안내서	Tibero에서 제공하는 JDBC 기능을 이용하여 애플리케이션 프로그램을 개발하는 방법을 기술한 안내서이다.
Tibero tbESQL/C 안내서	C 프로그래밍 언어를 사용해 데이터베이스 작업을 수행하는 각종 애플리케이션 프로그램을 작성하는 방법을 기술한 안내서이다.
Tibero tbESQL/COBOL 안내서	COBOL 프로그래밍 언어를 사용해 데이터베이스 작업을 수행하는 각종 애플리케이션 프로그램을 작성하는 방법을 기술한 안내서이다.
Tibero tbPSM 안내서	저장 프러시저 모듈인 tbPSM의 개념과 문법, 구성요소를 소개하고, 프로그램을 작성하는 데 필요한 제어 구조, 복합 타입, 서브프로그램, 패키지 및 SQL 문장을 실행하고 에러를 처리하는 방법을 기술한 안내서이다.
Tibero tbPSM 참조 안내서	저장 프러시저 모듈인 tbPSM의 패키지를 소개하고, 이러한 패키지에 포함된 각 프러시저와 함수의 프로토타입, 파라미터, 예제 등을 기술한 참조 안내서이다.
Tibero 관리자 안내서	Tibero의 동작과 주요 기능의 원활한 수행을 보장하기 위해 DBA가 알아야 할 관리 방법을 논리적 또는 물리적 측면에서 설명하고, 관리를 지원하는 각종 도구를 기술한 안내서이다.
Tibero tbAdmin 안내서	SQL/PSM 처리와 DBA를 위한 시스템 관리 기능을 제공하는 GUI 기반의 툴인 tbAdmin을 소개하고, 설치 및 사용 방법을 기술한 안내서이다.
Tibero 유틸리티 안내서	데이터베이스와 관련된 작업을 수행하기 위해 필요한 유틸리티의 설치 및 환경설정, 사용 방법을 기술한 안내서이다.

안내서	설명
Tibero TAS 안내서	Tibero Active Storage(TAS)를 사용해서 Tibero의 파일을 관리하고자 하는 관리자를 대상으로 기술한 안내서이다.
Tibero 에러 참조 안내서	Tibero를 사용하는 도중에 발생할 수 있는 각종 에러의 원인과 해결 방법을 기술한 안내서이다.
Tibero SQL 참조 안내서	데이터베이스 작업을 수행하거나 애플리케이션 프로그램을 작성할 때 필요한 SQL 문장을 기술한 참조 안내서이다.

제1장 Introduction to Initialization Parameters

1.1. Overview

An **initialization parameter** describes a Tiberio instance and database configuration. It is provided with a text file and required to create a Tiberio.

An **initialization parameter file** is a text file, with a filename in the form XX.tip (where XX is the name of the database), needed when creating a database. It can be edited using a document editor provided with the operating system. Once the initialization parameter file is modified, the database must be restarted to apply the modification to the entire system.

However, not all initialization parameters require the restarting of the database after their modification. Some parameters can be modified while being used by an instance. These parameters are applied only to the current instance, not the initialization parameter file.

The following is the list of information that can be configured in the initialization parameter file.

- Shared memory area
- Default value for the database and instances
- Database limits
- Location of the control file
- Location of the archive file
- Location of the trace file

Below is an example of the initialization parameter file.

```
AUTHENTICATION_TIMEOUT = 0  
CLUSTER_DATABASE = N  
EX_WORKAREA_CACHE_SIZE = 100
```

1.2. Class Attributes

This section explains the class attributes necessary for users to understand the information configured in the initialization parameter file.

Group	Class	Description
Static/Dynamic	Static	A parameter that cannot be modified during system operation.
	Dynamic	A parameter that can be modified during system operation.
Persistent/Adjustable	Persistent	A parameter that cannot be modified after database creation.
	Adjustable	A parameter that can be modified after database creation.
Mandatory/Optional	Mandatory	A parameter required to start up a system. If these parameter are not defined in the initialization parameter file, the system cannot be booted.
	Optional	A parameter that uses a default value if not defined in the initialization parameter.
System/Session	System	A parameter that the entire system shares.
	Session	A parameter that can be configured separately for each session.

1.3. Initialization Parameter

This section describes initialization parameters in alphabetical order.

1.3.1. ACF_CMPT_CNT

ACF_CMPT_CNT specifies the number of cluster message processing threads used by the ACSD (Active Cluster Service Deamon) process in parallel.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MAX(32, MIN(get_ncpu() * 3, 160))
Class	Optional, Persistent, Static, System
Range	

1.3.2. ACF_NMGR_CM_AUTO_REVIVAL

ACF_NMGR_CM_AUTO_REVIVAL specifies whether or not to apply the logic for CM and CM_GUARD to revive one another when the other is killed. (instance side)

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.3. ACF_NMGR_PREVENT_REVIVAL_ON_IR

ACF_NMGR_PREVENT_REVIVAL_ON_IR specifies whether or not to execute the Revival function when a DBWR loses its connection with CM even if the status of DBWR is 'IR HOLD' or 'IR WAITING'.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.4. ACTIVE_SESSION_HISTORY

ACTIVE_SESSION_HISTORY determines whether to gather statistics on active sessions.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.5. ACTIVE_SESSION_TIMEOUT

The maximum time, in seconds, that a session will remain active and wait for a client request. If there is no client request during this time, the server will disconnect the session. If this is set to 0, the server will never disconnect the session.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.6. ACT_LOG_DEST

ACT_LOG_DEST specifies the directory where activity log files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.7. ACT_LOG_FILE_SIZE

ACT_LOG_FILE_SIZE specifies the maximum size of each activity log file. If a single log file grows more than the size specified in this parameter, the current log file will be closed and a new file will be created.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	104857600
Class	Optional, Adjustable, Static, System
Range	100K - 1G

1.3.8. AD_AUTH_KBR_SERVICE_NAME

kerberos service name for AD authentication.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.9. AD_AUTH_KEYTAB_FILE

AD_AUTH_KEYTAB_FILE specifies the location of the keytab files. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	string
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	AD_AUTH_KEYTAB_FILE=filename[:filename [...]]

1.3.10. AD_AUTH_PREFIX

Prefix for AD authenticated user.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"AD\$"
Class	Optional, Adjustable, Static, System
Range	

1.3.11. ALL_LOGFILE_MEMBERS_SANITY_CHECK

When scanning logfiles during recovery, check all members in a logfile group to check lost or damaged precisely.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.12. AS_ADDR

AS_ADDR specifies the network address of the Active Storage instance to be accessed by the database instance.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"127.0.0.1"
Class	Optional, Adjustable, Static, System
Range	

1.3.13. AS_ALLOW_ONLY_RAW_DISKS

AS_ALLOW_ONLY_RAW_DISKS specifies whether the Active Storage instance will only discover raw devices.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.14. AS_DISKSTRING

AS_DISKSTRING specifies the absolute path of the disks that the Active Storage instance discovers.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	AS_DISKSTRING = discovery_string [, discovery_string] ...

1.3.15. AS_DISK_AFFINITY_GROUP

AS_USE_DISK_AFFINITY specifies the affinity group name to be used by instance. It must be equal to one of the disk failgroup names.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.16. AS_DISK_REPAIR_WAIT_TIME

Waiting time until the disk is automatically dropped when the AS disk monitor finds that the disk fails. (in minutes when set to 0, don't drop)

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.17. AS_FINE_STRIPE_SIZE

size of fine-grained stripe

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	64 * 1024
Class	Optional, Persistent, Static, System
Range	64K - 128K

1.3.18. AS_PORT

AS_PORT specifies the TCP port number of the Active Storage instance to be accessed by the database instance.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	1024 - 65535

1.3.19. AS_SCAN_SSVR_DISK

AS_SCAN_SSVR_DISK specifies whether or not to use storage server disk.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.20. AS_USE_DISK_AFFINITY

AS_USE_DISK_AFFINITY specifies whether disk affinity function will be used

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.21. AS_USE_USER_FUNCTION

AS_USE_USER_FUNCTION specifies whether the Active Storage instance will use USER and USER GROUP functions.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.22. AS_WTHR_CNT

AS_WTHR_CNT specifies the number of threads used for Active Storage instance rebalancing. Increasing the number of threads increases rebalancing speeds but consumes more system resources.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Static, System
Range	

1.3.23. AUDIT_FILE_DEST

AUDIT_FILE_DEST specifies the directory where AUDIT TRAIL files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.24. AUDIT_FILE_SIZE

AUDIT_FILE_SIZE specifies the maximum size of each AUDIT TRAIL file. If a single AUDIT TRAIL file grows more than the size specified in this parameter, the current audit trail file will be closed and a new file will be created.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	104857600
Class	Optional, Adjustable, Static, System
Range	100K - 1G

1.3.25. AUDIT_LOG_TOTAL_SIZE_LIMIT

AUDIT_LOG_TOTAL_SIZE_LIMIT specifies the maximum total file size that can be stored in the directory set in AUDIT_LOG_DEST. Use this parameter to prevent database log files from growing endlessly by deleting the oldest files when the file size exceeds the specified value and hence reusing the database space.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	300 * 1024 * 1024

Property	Description
Class	Optional, Adjustable, Static, System
Range	100K -

1.3.26. AUDIT_SYS_OPERATIONS

AUDIT_SYS_OPERATIONS determines whether to enables auditing for the SYS user.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.27. AUDIT_TRAIL

AUDIT_TRAIL specifies the method of auditing when the database auditing function is enabled.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"NONE"
Class	Optional, Adjustable, Dynamic, System
Range	NONE DB DB_EXTENDED OS

1.3.28. AUTHENTICATION_TIMEOUT

AUTHENTICATION_TIMEOUT specifies the timeout (in seconds) for client authentication when a client initializes a session. If a client has not completed the authentication protocol in the time specified, the server will close the connection.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	100
Class	Optional, Adjustable, Dynamic, System
Range	0 - 100

1.3.29. AUTO_COALESCE

Specifies the automatic coalesce. 0: Do not use. 1: Only LOB indexes. 2: All indexes.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	2
Class	Optional, Adjustable, Dynamic, System
Range	0~2

1.3.30. AUTO_COALESCE_INTERVAL

AUTO_COALESCE_INTERVAL specifies the auto coalesce interval. The unit is 0.1 second.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	100
Class	Optional, Adjustable, Dynamic, System
Range	0 ~ 3600000 (OFF / 0.1 second ~ 100 hours)

1.3.31. BATCHUPDATE_MODE

Set the batch update operation mode.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.32. BATCH_INSERT_ROWCNT_THRESHOLD

BATCH_INSERT_ROWCNT_THRESHOLD specifies the number of rows for inserting the same information into multiple tables and indexes using the BATCH INSERT protocol.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.33. BIND_VARIABLE_CAPTURE

determines whether to enable Bind Variable Capture.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.34. BIND_VARIABLE_CAPTURE_ALLOC_COUNT

specifies the number of slave allocators for bind variable capture.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4
Class	Optional, Adjustable, Static, System
Range	

1.3.35. BIND_VARIABLE_CAPTURE_INTERVAL

specifies the time interval, in seconds, at which Bind Variable Capture will execute.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	600
Class	Optional, Adjustable, Dynamic, System
Range	0 ~ 86400

1.3.36. BIND_VARIABLE_CAPTURE_KEEP_FIRST

determines whether to keep first bind variables of plans

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.37. BIND_VARIABLE_CAPTURE_MAX_COUNT

specifies the maximum number of bind variables that Bind Variable Capture can store.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1000
Class	Optional, Adjustable, Dynamic, System
Range	10 ~ 1000000

1.3.38. BIND_VARIABLE_CAPTURE_MAX_VAR_COUNT

specifies the maximum number of bind variables that can be captured from a query.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	512
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.39. BIND_VARIABLE_CAPTURE_POOL_PCTDEL

a percentage of variables to be deleted from Bind Variable Capture pool.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Static, System
Range	

1.3.40. BIND_VARIABLE_CAPTURE_POOL_SIZE

specifies the size of pool for Bind Variable Capture.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4*1024*1024
Class	Optional, Adjustable, Static, System
Range	

1.3.41. BLOCK_CHANGE_TRACKING

BLOCK_CHANGE_TRACKING enables block change tracking for incremental backups.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	
Syntax	file

1.3.42. BOOT_WITH_AUTO_DOWN_CLEAN

BOOT_WITH_AUTO_DOWN_CLEAN specifies whether or not to automatically enable the tbdwn clean process during tbboot.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.43. BTIP_FILE_PATH

BTIP_FILE_PATH specifies the binary parameter file that can be shared

- Parameter Format

Property	Description
Parameter Type	filename
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.44. CALLSTACK_DUMP_DEST

CALLSTACK_DUMP_DEST specifies the directory to which callstack dump files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System
Range	

1.3.45. CCC_CATH_CNT

CCC_CATH_CNT specifies the number of asynchronous cache task threads used by the CCC(Cluster Cache Control) in parallel.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	2
Class	Optional, Adjustable, Static, System
Range	1 - 64

1.3.46. CCC_MASTERING_UNIT

CCC_MASTERING_UNIT specifies the number of continuous blocks to be specified in a single Master of the CCC (Cluster Cache Control) module. A base of 2 will be raised to the power of the integer specified in this parameter.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	7
Class	Optional, Persistent, Static, System
Range	

1.3.47. CCC_RECL_MAX_RESOURCES

CCC_RECL_MAX_RESOURCES specifies the maximum number of CCC resource blocks to be maintained in memory.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	$(TB_CEIL_DIV((_CCC_RECL_MAX_DB_CACHE_SIZE / DB_BLOCK_SIZE), 100) * _CCC_RECL_MAX_RESOURCES_RATIO)$
Class	Optional, Persistent, Static, System
Range	

1.3.48. CCC_RSBTBL_SIZE

CCC_RSBTBL_SIZE specifies the number of hash table buckets used for the CCC resource block. The number of blocks must be a square of 2.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	$TB_CEIL(_DB_BLOCK_HASH_BUCKETS/8, 256)$
Class	Optional, Adjustable, Static, System

Property	Description
Range	

1.3.49. CC_CU_BLKCNT

CC_CU_BLKCNT specifies the maximum CC unit size in blocks.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4
Class	Optional, Adjustable, Dynamic, System
Range	1 - 32

1.3.50. CC_CU_PCTUSE

CC_CU_PCTUSE specifies the percentage of a single block that can be used in a compression unit. This will be adjusted while loading.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	99
Class	Optional, Adjustable, Dynamic, Session
Range	0 - 99

1.3.51. CC_CU_WRITEOUT_THRESHOLD

CC_CU_WRITEOUT_THRESHOLD specifies the minimum percentage of a single block that must be met to proceed to write out. @range : 0 - 99

- Parameter Format

Property	Description
Parameter Type	Integer

Property	Description
Default Value	85
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.52. CC_EXPECTED_RATE

CC_EXPECTED_RATE specifies the percentage of a single block that can be used for row data. This will be adjusted while loading.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	25
Class	Optional, Adjustable, Dynamic, Session
Range	1 - 100

1.3.53. CC_TYPICAL_ROW_SIZE

CC_TYPICAL_ROW_SIZE specifies the size of a typical row in a compression unit.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	100
Class	Optional, Adjustable, Dynamic, Session
Range	3 - 1000

1.3.54. CERTIFICATE_FILE

CERTIFICATE_FILE specifies the location of the certificate files. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Static, System
Range	
Syntax	CERTIFICATE_FILE=filename[:filename [...]]

1.3.55. CLOSE_REMOTE_SESSION_ON_SESSION_RESET

Determines whether to close remote sessions that are connected using a database link when resetting sessions (logical disconnection).

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.56. CLUSTER_DATABASE

CLUSTER_DATABASE determines whether to configure TAC (Tibero Active Cluster) or not.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Persistent, Static, System
Range	

1.3.57. CMPT_CNT_FOR_RECONFIGURATION

CMPT_CNT_FOR_RECONFIGURATION specifies the number of cluster message processing threads during a reconfiguration. A reconfiguration will be executed in parallel by the threads.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MIN(8, MAX(1, ACF_CMPT_CNT /4))
Class	Optional, Persistent, Dynamic, System
Range	

1.3.58. CM_AUTO_RECONNECT_NODE_WITH_ACTIVE_FHB

If CM_AUTO_RECONNECT_NODE_WITH_ACTIVE_FHB is on, CM automatically reconnects with nodes with active FHB.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.59. CM_AUTO_RECONNECT_TIMEOUT

CM_AUTO_RECONNECT_TIMEOUT specifies the waiting (after sending a reconn msg) timeout for the auto reconnection.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	6
Class	Optional, Adjustable, Static, System
Range	

1.3.60. CM_AUTO_REVIVAL

CM_AUTO_REVIVAL specifies whether or not to apply the logic for CM and CM_GUARD to revive one another when the other is killed.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.61. CM_CLUSTER_AUTO_RESTART

CM_CLUSTER_AUTO_RESTART specifies whether or not to automatically restart the cluster when the network resource connection is restored.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.62. CM_DOWN_ON_TIME_DISACCORDANCE

If this is Y, CM will be down on time disaccordance between other CMs.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.63. CM_ENABLE_FAST_ACT_LOOP

CM_ENABLE_FAST_ACT_LOOP specifies whether CM action thread can be accelerated by bitq

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.64. CM_ENABLE_FAST_MASTER_ELECTION

CM_ENABLE_FAST_MASTER_ELECTION specifies whether to turn on the function to rapidly elect a node as the cluster master when the old master is in a dysfunctional situation.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.65. CM_ENABLE_FAST_NET_ERROR_DETECTION

CM_ENABLE_FAST_NET_ERROR_DETECTION specifies whether to turn on the function that rapidly recognizes the status change of other CM by detecting a network error.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.66. CM_FENCE

CM_FENCE determines whether to execute the CM fence daemon. To use this option, CM must be started with root privileges.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Persistent, Static, System
Range	

1.3.67. CM_FILE_AUTO_RESTART_SSVR

CM_FILE_AUTO_RESTART_SSVR specifies whether or not to automatically restart a file resource when it is downed in an SSVR environment.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.68. CM_FORCE_INSTANCE_KILL

CM_FORCE_INSTANCE_KILL specifies whether CM forcibly kills the instances when they are needed to be down.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.69. CM_GUARD_LOG_DEST

Save location of the TBCM Guard log file. The location must be set as an absolute path in the local disk.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.70. CM_HEARTBEAT_EXPIRE

CM_HEARTBEAT_EXPIRE specifies the length of the heartbeat expire used to control TBCM. The length must be a multiple of [CM_TIME_UNIT](#). Heartbeat expire is the reference time that TBCM uses to detect possible failures in other nodes.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	300
Class	Optional, Adjustable, Static, System
Range	

1.3.71. CM_LOCAL_IP_VERSION

Configure an IP protocol family to be used for the local CM UI. To use IPv4, set the configuration to 4. To use IPv6, set the configuration to 6.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4
Class	Optional, Adjustable, Static, System
Range	4 or 6

1.3.72. CM_LOG_DEST

CM_LOG_DEST specifies the directory to which TBCM log files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.73. CM_LOG_FILE_SIZE

CM_LOG_FILE_SIZE specifies the maximum size of each TBCM log file. If a single log file grows more than the size specified in this parameter, the current log file will be closed and a new file will be created.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10485760
Class	Optional, Adjustable, Static, System
Range	100K - 1G

1.3.74. CM_LOG_TOTAL_SIZE_LIMIT

CM_LOG_TOTAL_SIZE_LIMIT specifies the maximum total file size of logs files that can be stored in the directory set in CM_LOG_DEST. Use this parameter to prevent database log files from growing endlessly by deleting the oldest files when the file size exceeds the specified value and hence reusing the database space.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	300 * 1024 * 1024
Class	Optional, Adjustable, Static, System

Property	Description
Range	100K - INT64_MAX

1.3.75. CM_LOOP_TIMEOUT

CM_LOOP_TIMEOUT specifies how much is the CTHR/Action thread loop timeout.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	200
Class	Optional, Adjustable, Static, System
Range	

1.3.76. CM_MODE_OBSERVER

CM_MODE_OBSERVER specifies whether or not to start up CM in observer mode.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.77. CM_MST_SAFEGUARD_EXPIRE

M_MST_SAFEGUARD_EXPIRE is provided to prevent split brain when the CM_FAST_NET_DETECTION parameter is turned on. When the connection between the master and the slave is lost, turn on the master safeguard. If the master file H/B remains abnormal during this duration, turn off the master safeguard and immediately start the master election. If the master safeguard is turned on and the master file H/B is valid after waiting for 2 * CM_MST_SAFEGUARD, it terminates its own cluster.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Static, System
Range	

1.3.78. CM_NAME

CM_NAME specifies the name which identifies a local node in the cluster environment that consists of TBCM. The name must not be the same as the name of another node and is limited to 31 bytes in length. And a semicolon cannot be used in names. If not specified, it is set to tbcm by default.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Mandatory, Adjustable, Static, System
Range	

1.3.79. CM_NETWORK_AUTO_RESTART

CM_NETWORK_AUTO_RESTART specifies whether or not to automatically restart CM when the network resource connection is restored.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.80. CM_NET_EXPIRE_MARGIN

CM_NET_EXPIRE_MARGIN specifies the network heartbeat expire for controlling CM. The value must be a multiple of CM_TIME_UNIT.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Static, System
Range	

1.3.81. CM_OBSERVER_EXPIRE

CM_OBSERVER_EXPIRE specifies the length of the heartbeat expire used to check between TBCM Observer and TBCM. The length must be smaller than summation of IPARAM(CM_HEARTBEAT_EXPIRE) and [CM_NET_EXPIRE_MARGIN](#). Heartbeat expire is the reference time that TBCM Observer uses to detect possible failures in other TBCM nodes.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	60
Class	Optional, Persistent, Static, System
Range	

1.3.82. CM_OBSERVER_PORT

CM_OBSERVER_PORT specified the listening port to be used by CM in observer mode.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Persistent, Static, System
Range	1024 - 65535

1.3.83. CM_PORT

CM_PORT specifies the port number to be used by TBCM. If two or more instances are running on a machine, the port number must be different from other instance.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	LISTENER_PORT + 3
Class	Optional, Adjustable, Static, System
Range	1024 - 65535

1.3.84. CM_REGARD_NETHB_AS_SERIOUS

If this parameter is on, Net H/B timeout is regarded as serious as File H/B timeout.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.85. CM_RESOURCE_FILE

CM_RESOURCE_FILE specifies the path to the file that contains information about the resources registered in CM. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	filename
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.86. CM_RESOURCE_FILE_BACKUP

CM_RESOURCE_FILE_BACKUP specifies the path to back up the file in the CM_RESOURCE_FILE path. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	filename
Default Value	""
Class	Optional, Persistent, Static, System
Range	

1.3.87. CM_RESOURCE_FILE_BACKUP_INTERVAL

CM_RESOURCE_FILE_BACKUP_INTERVAL specifies the interval (in minutes) for backing up the file in the CM_RESOURCE_FILE path to CM_RESOURCE_FILE_BACKUP path. If set to 0, backup is disabled.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Persistent, Static, System
Range	0 - 1440

1.3.88. CM_REVIVAL_WAIT_INST_TIMEOUT

CM_REVIVAL_WAIT_INST_TIMEOUT specifies the timeout to wait for status info sharing between in stances during a force reboot by CM_Guard.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	30
Class	Optional, Adjustable, Static, System
Range	

1.3.89. CM_REVIVAL_WAIT_NODE_TIMEOUT

CM_REVIVAL_WAIT_NODE_TIMEOUT specifies the timeout to wait for resource sharing between nodes during a force reboot by CM_Guard.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	20
Class	Optional, Adjustable, Static, System
Range	

1.3.90. CM_REVIVAL_WAIT_TIMEOUT

CM_REVIVAL_WAIT_INST_TIMEOUT specifies the timeout for an existing Guard to wait for the initialization of a new CM during a force reboot by CM_Guard.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Static, System
Range	

1.3.91. CM_SVC_AUTO_START_ON_BOOT

CM_SVC_AUTO_START_ON_BOOT specifies whether or not to automatically restart services together with network and cluster when CM boots.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.92. CM_TAS_VM_ADDR

CM_TAS_VM_ADDR specifies the IP information of the TAS5 Master (volume manager) that is needed by CM when the CM file is stored in TAS5.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"127.0.0.1"
Class	Optional, Adjustable, Static, System
Range	

1.3.93. CM_TAS_VM_PORT

CM_TAS_VM_PORT specifies the PORT information of the TAS5 Master (volume manager) that is needed by CM when the CM file is stored in TAS5.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"32000"
Class	Optional, Adjustable, Static, System
Range	

1.3.94. CM_TIME_UNIT

CM_TIME_UNIT specifies the length of the time tick to be used to control TBCM. Other time-related parameters are represented in a multiple valued set in CM_TIME_UNIT and specified based on a 0.1 second time base.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Static, System
Range	

1.3.95. CM_UI_PORT

CM_UI_PORT specifies the port information that CM uses to receive user commands.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Mandatory, Persistent, Static, System
Range	1024 - 65535

1.3.96. CM_USE_ASENV

CM_USE_ASENV specifies whether or not to use the AS commands and environment settings when using cmrctl from CM to control an AS instance.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.97. CM_USE_AWS_EC2

Whether to use amazon AWS EC2 virtual machine.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.98. CM_USE_TAS5_STORAGE

CM_USE_TAS5_STORAGE specifies whether or not to create CM files in TAS5 storage.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.99. CM_VIP_FAILOVER_BASED_ON_SVC_STATUS

CM_VIP_FAILOVER_BASED_ON_SVC_STATUS specifies when to alias VIP (when the service instance is up or down). Y means aliasing when the service instance is up, and N means aliasing when CM is booting.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.100. CM_VIP_RESTART_COUNT

CM_VIP_RESTART_COUNT specifies the number of times the VIP resource in the DOWN state performs automatic start. Automatic start is performed once per second.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1
Class	Optional, Adjustable, Static, System
Range	

1.3.101. CM_VIP_STAT_CHECK_INTERVAL

CM_VIP_STAT_CHECK_INTERVAL specifies the interval to check the status of the VIP resource in the UP state.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1
Class	Optional, Adjustable, Static, System
Range	

1.3.102. CM_WATCHDOG_EXPIRE

CM_WATCHDOG_EXPIRE specifies the expiration period used when the watchdog function between RDBMS and TBCM is enabled. If TBCM does not run for the specified time, RDBMS will be automatically terminated. The value set in this parameter should be smaller than the one specified in CM_HEARTBEAT_EXPIRE.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	290
Class	Optional, Persistent, Static, System
Range	

1.3.103. COMMIT_FLUSH_REQUEST

COMMIT_FLUSH_REQUEST determines whether to flush the logs after every transaction commit or not.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.104. COMMIT_FLUSH_WAIT

COMMIT_FLUSH_WAIT determines whether database commits wait for log flushes or not.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.105. COMMIT_POINT_STRENGTH

COMMIT_POINT_STRENGTH specifies the value determining the commit point site in a distributed transaction.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1
Class	Optional, Persistent, Static, System
Range	0 - 255

1.3.106. CONTROL_FILES

CONTROL_FILES specifies the location of the control files. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Mandatory, Adjustable, Static, System
Range	1 - 8 files
Syntax	CONTROL_FILES=filename[:filename [...]]

1.3.107. CPU_COUNT

CPU_COUNT specifies the number of CPUs allowed for this instance.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	

1.3.108. CREATE_STORED_OUTLINES

Determines whether to create outline.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.109. CTHR_CHECK_CONNECTION_INTERVAL

CTHR_CHECK_CONNECTION_INTERVAL specifies the time interval (in seconds) that CTHR checks client connections.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	60
Class	Optional, Adjustable, Dynamic, System
Range	1 - 120 (s)

1.3.110. CURSOR_SHARING

CURSOR_SHARING determines the kind of SQL statement which can share the same cursor. EXACT: Cursors can be shared only when the SQL text matches exactly. FORCE: Setting this parameter to FORCE forces similar SQL statements to share cursors as long as only their literals are different.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"EXACT"
Class	Optional, Adjustable, Dynamic, Session
Range	EXACT FORCE

1.3.111. CWS_DDD_TIMEOUT_ON_SLOG

CWS_DDD_TIMEOUT_ON_SLOG specifies whether or not to record a 'DDD timedout' SLOG message.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.112. CWS_RECL_MAX_RESOURCES

CWS_RECL_MAX_RESOURCES specifies the maximum number of CWS (Cluster Wait-lock Service) resource blocks to be maintained in memory.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	(TB_CEIL_DIV(_WLOCK_POOL_INIT_SIZE , 100) * _CWS_RECL_MAX_RESOURCES_RATIO)
Class	Optional, Persistent, Static, System
Range	

1.3.113. CWS_RESOLVE_CVT_DEADLK_FORCE

CWS_RESOLVE_CVT_DEADLK_FORCE specifies whether or not to enable CWS (Cluster Wait-lock Service) to force cancellation of requests that could potentially cause a conversion deadlock.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.114. CWS_RSBTBL_SIZE

CWS_RSBTBL_SIZE specifies the number of hash table buckets used for the CWS resource block. The number of buckets must be a square of 2.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	(_WLOCK_BUCKET_PER_SET * _WLOCK_BUCKETSET_CNT)
Class	Optional, Adjustable, Static, System
Range	

1.3.115. DBLINK_BATCH_UPDATE_ROW_COUNT

Number of rows to be processed at the same time during batch

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.116. DBLINK_CONN_TIMEOUT

Number of seconds for a CLI connect to timeout to a DB that will be connected through a DB link.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	100
Class	Optional, Adjustable, Dynamic, Session
Range	0 - INT32_MAX

1.3.117. DBLINK_CONN_VALIDATION_SKIP_INTERVAL

Interval to check whether a DB link is valid after the last message to a connected DB has been sent through a DB link.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, Session
Range	0 - INT32_MAX

1.3.118. DBLINK_QUERY_TIMEOUT

Number of seconds to wait for a response after sending SQL to a DB that is connected through a DB link.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, Session
Range	0 - INT32_MAX

1.3.119. DBMS_LOG_DEST

DBMS_LOG_DEST specifies the directory where the database log files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.120. DBMS_LOG_FILE_SIZE

DBMS_LOG_FILE_SIZE specifies the maximum size of each database log file. If a single log file grows more than the size specified in this parameter, the current log file will be closed and a new file will be created.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	104857600
Class	Optional, Adjustable, Static, System
Range	100K - 1G

1.3.121. DBMS_LOG_TOTAL_SIZE_LIMIT

DBMS_LOG_TOTAL_SIZE_LIMIT specifies the maximum total file size that can be stored in the directory set in DBMS_LOG_DEST. Use this parameter to prevent database log files from growing endlessly by deleting the oldest files when the file size exceeds the specified value and hence reusing the database space.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	300 * 1024 * 1024

Property	Description
Class	Optional, Adjustable, Static, System
Range	100K -

1.3.122. DBWR_CNT

DBWR_CNT specifies the number of threads that use database blocks on disk.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	DBWR_USE_AIO ? 1 : MAX(1, get_ncpu()/4)
Class	Optional, Adjustable, Static, System
Range	1 - 1024

1.3.123. DBWR_USE_AIO

Option for DBWR to use AIO. Must be set to N in active storage mode.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	(USE_ACTIVE_STORAGE strcmp(INSTANCE_TYPE , "AS") == 0 strcmp(INSTANCE_TYPE , "ACTIVE_STORAGE") == 0) ? N : iparam_dbwr_aio_as_default()
Class	Optional, Adjustable, Static, System
Range	

1.3.124. DB_BLOCK_SIZE

DB_BLOCK_SIZE specifies the size of database blocks.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	8 * 1024
Class	Optional, Persistent, Static, System
Range	2K - 32K

1.3.125. DB_CACHE_SIZE

DB_CACHE_SIZE specifies the size of the database cache buffer. It can be adjusted so that each DB writer manages the same number of blocks.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	(CLUSTER_DATABASE ? TB_CEIL(TOTAL_SHM_SIZE * 1 / 2, 1) : TB_CEIL(TOTAL_SHM_SIZE * 2 / 3, 1)) - MEMORY_TABLESPACE_SIZE
Class	Optional, Adjustable, Static, System
Range	

1.3.126. DB_CREATE_FILE_DEST

DB_CREATE_FILE_DEST specifies the directory where the data files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''
Class	Optional, Adjustable, Static, System
Range	

1.3.127. DB_FILE_MULTIBLOCK_READ_COUNT

DB_FILE_MULTIBLOCK_READ_COUNT specifies the number of blocks which can be read in one I/O operation.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	USE_ACTIVE_STORAGE ? 128 : 32
Class	Optional, Adjustable, Dynamic, Session
Range	1-1024

1.3.128. DB_KEEP_CACHE_SIZE

DB_KEEP_CACHE_SIZE specifies the size of the KEEP buffer pool.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	

1.3.129. DB_MULTIBLOCK_PREFETCH_COUNT

DB_MULTIBLOCK_PREFETCH_COUNT specifies prefetch count

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.130. DB_NAME

DB_NAME specifies the name of the database. It must correspond to the name specified in the DB_NAME parameter of the \$TB_SID.tip file. If a database name is not specified, the database will be created with the TB_SID environment variable. When the system is restarted after database creation, an error may occur if the specified database name does not match the one specified in DB_NAME of the \$TB_SID.tip file.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Mandatory, Persistent, Static, System
Range	Limited to 40 characters

1.3.131. DB_RECYCLE_CACHE_SIZE

DB_RECYCLE_CACHE_SIZE specifies the size of the RECYCLE buffer pool.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	

1.3.132. DB_UNIQUE_NAME

DB_UNIQUE_NAME specifies a globally unique name for the database. Databases with the same DB_NAME, for example, copies of a database created for testing or physical standby databases, must have a unique DB_UNIQUE_NAME to be distinguished. Every database's DB_UNIQUE_NAME must be unique within the enterprise. @range : Limited to 40 characters and is case sensitive

- Parameter Format

Property	Description
Parameter Type	String

Property	Description
Default Value	DB_NAME
Class	Optional, Persistent, Static, System
Range	

1.3.133. DD_CACHE_MAX

DD_CACHE_MAX specifies the maximum size of DD cache (automatically adjusted). Deprecated.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MAX(10 << 20, (TOTAL_SHM_SIZE - DB_CACHE_SIZE) * 0.3)
Class	Optional, Adjustable, Dynamic, System
Range	10M -

1.3.134. DEFAULT_SEQ_CACHE_SIZE

DEFAULT_SEQ_CACHE_SIZE specifies the default value of sequence cache size.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	20
Class	Optional, Adjustable, Dynamic, System
Range	2 - 99999999

1.3.135. DF_HDRBLK_START_OFFSET

DF_HDRBLK_START_OFFSET specifies the data file's start offset.

- Parameter Format

Property	Description
Parameter Type	Integer

Property	Description
Default Value	0
Class	Optional, Persistent, Static, System
Range	0 - 65536

1.3.136. DIRTY_BLOCK_WRITE_ISSUE_TIME

Time period within which a dirty cache block must be issued to be written to disk. (Unit: second) This cannot be used concurrently with "LOG_CHECKPOINT_TIMEOUT". If set to 0, this parameter is ignored.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1800
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.137. DISK_PATH

Sets the paths to AS disks. Use absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	
Syntax	DISK_PATH=pathname[:pathname [...]]

1.3.138. DONT_USE_FILE_BUFFERING

DONT_USE_FILE_BUFFERING determines whether to use file cache in Windows.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.139. DPL_INDEX_METHOD

DPL_INDEX_METHOD specifies the DPL (Direct Path Loading) operation mode in the table with the index. 1: NORMAL INSERT, index keys are inserted one by one. 2: MULTI INSERT, multiple index keys are inserted at a time. 3: FAST BUILD, index keys are retrieved in key sequence and inserted per unit of block.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	2
Class	Optional, Adjustable, Dynamic, Session
Range	1 2 3

1.3.140. DUMP_EXSTAT_ON_STMT_CANCEL

DUMP_EXSTAT_ON_STMT_CANCEL specifies whether or not to dump the current SQL, bind parameters and execution stat when a statement is cancelled

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.141. ENCRYPTION_WALLET_FILE

ENCRYPTION_WALLET_FILE specifies the location of wallet files used by TDE only. It must be specified as an absolute path. deprecated

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Static, System
Range	
Syntax	ENCRYPTION_WALLET_FILE=filename[:filename [...]]

1.3.142. ENCRYPT_GLOBAL_KEY_FILE

ENCRYPT_GLOBAL_KEY_FILE specifies the location of global key file used to recover encrypted tablespaces.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Static, System
Range	
Syntax	_ENCRYPT_GLOBAL_KEY_FILE=filename[:filename [...]]

1.3.143. EXTRA_LISTENER_PORTS

Multiple ports can be specified to configure additional ports. Use a semi-colon, ';', as the delimiter, e.g., '8900;8901;'.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''

Property	Description
Class	Optional, Adjustable, Static, System
Range	

1.3.144. EXTRA_LISTENER_PORTS_6

Multiple ipv6 ports can be specified to configure additional ports. Use a semi-colon, ';', as the delimiter, e.g., '8900;8901;'.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''
Class	Optional, Adjustable, Static, System
Range	

1.3.145. EX_MEMORY_AUTO_MANAGEMENT

EX_MEMORY_AUTO_MANAGEMENT enables either automatic PGA memory allocation with memory tuner or manual memory allocation.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.146. EX_MEMORY_COMPENSATE_INTERVAL

The memory tuner uses the interval specified in this parameter to check the total amount of available PGA memory and the maximum amount of PGA memory available to each operation. The interval is specified in 0.1 seconds.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	30
Class	Optional, Adjustable, Dynamic, System
Range	EX_MEMORY_DRIFT_CHECK_INTERVAL -

1.3.147. EX_MEMORY_DRIFT_CHECK_INTERVAL

To cope with rapid changes in the amount of memory, RDBMS checks whether changes in the amount of PGA memory has exceeded 10% of the total amount of PGA memory at every interval specified in this parameter. The interval is specified in 0.1 seconds.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	2
Class	Optional, Adjustable, Dynamic, System
Range	1 -

1.3.148. EX_MEMORY_DRIFT_RATIO

The memory difference RATIO for DRIFT CHECK. DRIFT will be generated when the change is $EX_MEMORY_SOFT_LIMIT * EX_MEMORY_DRIFT_RATIO$. (unit of 0.001%)

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10000
Class	Optional, Adjustable, Dynamic, System
Range	1 ~ 100000

1.3.149. FDPOOL_HASH_SIZE

FDPOOL_HASH_SIZE specifies the hash size to be used in the fdpool.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MAX(WTHR_PROC_CNT * WTHR_PER_PROC * 4 * (!!CLUSTER_DATABASE+1), 128)
Class	Optional, Adjustable, Static, System
Range	

1.3.150. FLASHBACK_LOG_ARCHIVE_DEST

Specifies the absolute path of the directory where the flashback archive logs.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.151. FLASHBACK_LOG_ARCHIVE_FORMAT

Specifies the format of the flashback archive log file.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"fb-t%t-r%r-s%s.arc"
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.152. FLASHBACK_LOG_BUFFER

Size of the memory space where flashback logs are buffered. Value must be set when flashback logging is set on. Recommended twice the value of LOG_BUFFER.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	(DB_BLOCK_SIZE) * 4 - 1G

1.3.153. FLASHBACK_MARKER_INTERVAL

Time period of making flashback database marker (in sec). Smaller it is, faster the DB can flashback. However, DB gets slower due to the heavy flashback logging during usual operation and also flashback logs takes up more disk space.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	86400
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.154. GATHER_SQL_EXEC_TIME

GATHER_SQL_EXEC_TIME determines whether to measure the time spent to execute SQL statements. This parameter is used to enable EXEC_TIME of _VT_OPEN_CURSOR.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.155. GATHER_SQL_PLAN_STAT

GATHER_SQL_PLAN_STAT determines whether to collect statistics on each node in the SQL statement execution plan at the time an SQL query is executed.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.156. HASH_AREA_SIZE

HASH_AREA_SIZE specifies the maximum size of memory to be used for creating a hash table. If HASH_AREA_SIZE is large, hash joins can be completed in memory in a one-pass hash join. If HASH_AREA_SIZE is not large enough for a particular hash join, a two-pass hash join will be executed.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	(MEMORY_TARGET - TOTAL_SHM_SIZE) * 0.3
Class	Optional, Adjustable, Dynamic, Session
Range	(DB_BLOCK_SIZE * DFLT_DB_FILE_MULTIBLOCK_READ_COUNT) -

1.3.157. HBASE_CONNECTOR_SCAN_CACHE

HBASE_CONNECTOR_SCAN_CACHE specifies the HBase Connector scanner row size.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1000
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.158. HSM_LIB_FILE

HSM_LIB_FILE specifies the location of the cryptoki.so files. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	string
Default Value	""
Class	Optional, Adjustable, Static, System
Range	
Syntax	HSM_LIB_FILE=filename[:filename [...]]

1.3.159. HSM_TTE_KEY_BACKUP_FILE_PATH

HSM_TTE_KEY_BACKUP_FILE_PATH specifies/determines the location of the tte key backup file. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	string
Default Value	""
Class	Optional, Adjustable, Static, System
Range	
Syntax	HSM_TTE_KEY_BACKUP_FILE_PATH=filename[:filename [...]]

1.3.160. ILOG_DEST

ILOG_DEST specifies the directory in which the internal log file is saved. The absolute path should be specified.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System

Property	Description
Range	

1.3.161. ILOG_FILE_BACKUP_ON_BOOT

ILOG_FILE_BACKUP_ON_BOOT determines if old internal log files will be backed up when RDBMS boots. If it is set to 'N', internal log records will continue to be written to an existing internal log file. Otherwise, all old internal log files will be backed up to a new backup directory.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.162. ILOG_FILE_SIZE

ILOG_FILE_SIZE specifies the maximum size of the internal log file. If the size of a log file is larger than this size, the current file is backed up and a new log file is created.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10485760
Class	Optional, Adjustable, Static, System
Range	100K ~ 10M

1.3.163. ILOG_MAP

ILOG_MAP specifies the location of the configuration file which specifies on/off of the internal log. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.164. ILOG_TOTAL_SIZE_LIMIT

ILOG_TOTAL_SIZE_LIMIT specifies the maximum size of all internal log files accumulated in the directory specified as ILOG_DEST. If this size is exceeded when a new log file is created or tiberio boot, the oldest file (included backup directory) is deleted to prevent log files from being generated endlessly.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	((MAX_SESSION_COUNT + 50L) * (int64_t)(ILOG_FILE_SIZE))
Class	Optional, Adjustable, Dynamic, System
Range	100K ~ UINT64_MAX

1.3.165. INSTANCE_NUMBER

INSTANCE_NUMBER specifies the instance number.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	THREAD
Class	Optional, Persistent, Static, System
Range	0

1.3.166. INSTANCE_TYPE

INSTANCE_TYPE specifies whether an instance is a database instance or a Active Storage instance.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"TIBERO"
Class	Optional, Persistent, Static, System
Range	TIBERO AS ACTIVE_STORAGE

1.3.167. IP_VERSION

Configure an IP protocol family to be used for network communications with a client. To use IPv4, set the configuration to 4. To use IPv6, set the configuration to 6. To automatically select and use an available protocol, set the configuration to 0. If use both IPv4 and IPv6, set the configuration to 10.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4
Class	Optional, Adjustable, Static, System
Range	0, 4, 6, or 10

1.3.168. JAVA_CLASS_PATH

JAVA_CLASS_PATH specifies the default directory used to store a class file in Java stored procedure. It must be specified as an absolute path. If not specified, the class file will be stored in DB_CREATE_FILE_DEST/java.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.169. JOB_HISTORY_LOG

JOB_HISTORY_LOG determines whether to write a job history after every job start or not.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.170. JOB_SCHEDULING_MAX_TIMEOUT

JOB_SCHEDULING_MAX_TIMEOUT specifies the maximum interval of time (in seconds) to execute the JOB SCHEDULER.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	3600
Class	Optional, Adjustable, Dynamic, System
Range	1 ~ 999999

1.3.171. JOB_TRACE_LOG

JOB_TRACE_LOG determines whether to write a internal log after every job start or not.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.172. KEEP_STAT_PER_SQL

KEEP_STAT_PER_SQL determines whether to maintain statistical information on execution time for each SQL statement.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.173. LIBRARY_CACHE_MAX

LIBRARY_CACHE_MAX specifies the maximum size of library cache (automatically adjusted). Deprecated.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MAX(10 << 20, (TOTAL_SHM_SIZE - DB_CACHE_SIZE) * 0.3)
Class	Optional, Adjustable, Dynamic, System
Range	10M -

1.3.174. LIBRARY_DD_CACHE_MAX

LIBRARY_DD_CACHE_MAX specifies the maximum size of library cache and DD cache (automatically adjusted).

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MAX(10 << 20, (TOTAL_SHM_SIZE - DB_CACHE_SIZE) * 0.6)
Class	Optional, Adjustable, Dynamic, System
Range	10M -

1.3.175. LISTENER_IP

LISTENER_IP specifies the IP used by listener. IPv4 addresses are supported.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"-1"
Class	Optional, Persistent, Static, System
Range	

1.3.176. LISTENER_IP_6

LISTENER_IP_6 specifies the IP used by listener. IPv6 addresses are supported.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"-1"
Class	Optional, Persistent, Static, System
Range	

1.3.177. LISTENER_PORT

LISTENER_PORT specifies the port number to be used by listener. If two or more instances are running on a machine, the port number must be different for each instance. The same rule is in effect for SHM_KEY parameter.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System
Range	1024 - 65535

1.3.178. LISTENER_PORT_6

LISTENER_PORT specifies the port number to be used by listener. If two or more instances are running on a machine, the port number must be different for each instance. The same rule is in effect for SHM_KEY parameter.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System
Range	1024 - 65535

1.3.179. LOAD_METRIC_AUTO_INTERVAL

LOAD_METRIC_AUTO_INTERVAL determines whether to enable auto interval to collect the information about server load balancing.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.180. LOAD_METRIC_COLLECT_INTERVAL_MAX

LOAD_METRIC_COLLECT_INTERVAL_MAX specifies the maximum interval of time to collect server load balancing information.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Dynamic, System
Range	5 - 60 (s)

1.3.181. LOAD_METRIC_COLLECT_INTERVAL_MIN

LOAD_METRIC_COLLECT_INTERVAL_MIN specifies the minimum interval of time to collect server load balancing information.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1
Class	Optional, Adjustable, Dynamic, System
Range	1 - 5 (s)

1.3.182. LOAD_METRIC_HISTORY_COUNT

LOAD_METRIC_HISTORY_COUNT specifies the number of data to be gathered on server load-balancing.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Persistent, Static, System
Range	

1.3.183. LOCAL_CLUSTER_ADDR

LOCAL_CLUSTER_ADDR specifies the network address to be used for communication between instances in the TAC node.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.184. LOCAL_CLUSTER_ADDR_IPV6

LOCAL_CLUSTER_ADDR_IPV6 specifies the network address to be used for communication between instances in the TAC node.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.185. LOCAL_CLUSTER_IP_VERSION

Configure an IP protocol family to be used for cluster network communications. To use IPv4, set the configuration to 4. To use IPv6, set the configuration to 6.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4
Class	Optional, Adjustable, Static, System
Range	4 or 6

1.3.186. LOCAL_CLUSTER_PORT

LOCAL_CLUSTER_PORT specifies the port number to be used for communication between instances in the TAC node.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	1024 - 65535

1.3.187. LOCAL_CLUSTER_PORT_IPV6

LOCAL_CLUSTER_PORT_IPV6 specifies the port number to be used for communication between instances in the TAC node.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	1024 - 65535

1.3.188. LOG_ARCHIVE_DEST

LOG_ARCHIVE_DEST specifies the directory where the archive logs are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.189. LOG_ARCHIVE_DEST_1

LOG_ARCHIVE_DEST_1 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.190. LOG_ARCHIVE_DEST_2

LOG_ARCHIVE_DEST_2 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.191. LOG_ARCHIVE_DEST_3

LOG_ARCHIVE_DEST_3 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.192. LOG_ARCHIVE_DEST_4

LOG_ARCHIVE_DEST_4 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.193. LOG_ARCHIVE_DEST_5

LOG_ARCHIVE_DEST_5 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.194. LOG_ARCHIVE_DEST_6

LOG_ARCHIVE_DEST_6 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.195. LOG_ARCHIVE_DEST_7

LOG_ARCHIVE_DEST_7 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.196. LOG_ARCHIVE_DEST_8

LOG_ARCHIVE_DEST_8 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.197. LOG_ARCHIVE_DEST_9

LOG_ARCHIVE_DEST_9 specifies the directory where the archive logs are duplicated.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.198. LOG_ARCHIVE_FORMAT

LOG_ARCHIVE_FORMAT specifies the format of the archive log file. (%d:db id, %r:resetlog tsn, %s:sequence number, %S:zero filled sequence number, %t:thread number, %T:time YYYYMMDD_HH24MISS)

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"log-t%t-r%r-s%s.arc"
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.199. LOG_ARCHIVE_OVERWRITE

LOG_ARCHIVE_OVERWRITE determines whether to overwrite the pre-existing archive log file with the current archive log file.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Persistent, Dynamic, System
Range	

1.3.200. LOG_ARCHIVE_RETRY_TIME

LOG_ARCHIVE_RETRY_TIME specifies wait time (in seconds) to retry when it is failed to make an archive log file.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	3
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.201. LOG_BUFFER

Size of the memory space where redo logs are stored. @range : (DB_BLOCK_SIZE) * 4 - 1G

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10 * 1024 * 1024
Class	Optional, Adjustable, Static, System
Range	

1.3.202. LOG_CHECKPOINT_INTERVAL

LOG_CHECKPOINT_INTERVAL specifies the maximum number of blocks which have to be written before a checkpoint is forced.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, System
Range	0 - INT32_MAX

1.3.203. LOG_CHECKPOINT_TIMEOUT

LOG_CHECKPOINT_TIMEOUT specifies a time interval, in seconds, at which the checkpoint will occur.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, System
Range	0 - INT32_MAX

1.3.204. LOG_DEFAULT_DEST

LOG_DEFAULT_DEST specifies the directory to which server log files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.205. LOG_FILE_WITH_GROUP_READ_PERM

If set to Y, newly created redo and archive log files have the group read permission.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.206. LOG_LVL_AS

LOG_LVL_AS specifies the logging level of AS. The higher the log level, the more log records the listener stores.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Dynamic, System
Range	1 - 6

1.3.207. LOG_LVL_CM

LOG_LVL_CM specifies the logging level of TBCM. The higher the log level, the more log records CM stores.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	2
Class	Optional, Adjustable, Static, System
Range	1 - 6

1.3.208. LOG_LVL_LIS

LOG_LVL_LIS specifies the logging level of the listener. The higher the log level, the more log records the listener stores.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	6
Class	Optional, Adjustable, Dynamic, System
Range	1 - 6

1.3.209. LOG_ON_MEMORY

LOG_ON_MEMORY determines whether to write per-thread logs in cacheable memory on file when an error occurs.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.210. LOG_ON_MEMORY_SIZE

LOG_ON_MEMORY_SIZE specifies the size of the buffer which each thread will use to write logs to file when the LOG_ON_MEMORY parameter is enabled.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	102400
Class	Optional, Adjustable, Dynamic, System
Range	100K - 10M

1.3.211. LOG_REPLICATION_1_ENABLE

LOG_REPLICATION_1_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.212. LOG_REPLICATION_2_ENABLE

LOG_REPLICATION_2_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.213. LOG_REPLICATION_3_ENABLE

LOG_REPLICATION_3_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.214. LOG_REPLICATION_4_ENABLE

LOG_REPLICATION_4_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.215. LOG_REPLICATION_5_ENABLE

LOG_REPLICATION_5_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.216. LOG_REPLICATION_6_ENABLE

LOG_REPLICATION_6_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.217. LOG_REPLICATION_7_ENABLE

LOG_REPLICATION_7_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.218. LOG_REPLICATION_8_ENABLE

LOG_REPLICATION_8_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.219. LOG_REPLICATION_9_ENABLE

LOG_REPLICATION_9_ENABLE enables the Standby db active.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.220. LOG_REPLICATION_DEST_1

LOG_REPLICATION_DEST_1 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.221. LOG_REPLICATION_DEST_2

LOG_REPLICATION_DEST_2 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.222. LOG_REPLICATION_DEST_3

LOG_REPLICATION_DEST_3 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.223. LOG_REPLICATION_DEST_4

LOG_REPLICATION_DEST_4 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.224. LOG_REPLICATION_DEST_5

LOG_REPLICATION_DEST_5 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.225. LOG_REPLICATION_DEST_6

LOG_REPLICATION_DEST_6 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.226. LOG_REPLICATION_DEST_7

LOG_REPLICATION_DEST_7 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.227. LOG_REPLICATION_DEST_8

LOG_REPLICATION_DEST_8 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.228. LOG_REPLICATION_DEST_9

LOG_REPLICATION_DEST_9 enables writing the Standby db information on the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	<ip>:<port> {LGWR ARCH} {SYNC ASYNC}

1.3.229. LOG_REPLICATION_MODE

LOG_REPLICATION_MODE allows user to manage the operation mode of the Primary DB.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"UNPROTECTED"
Class	Optional, Adjustable, Dynamic, System
Range	
Syntax	{UNPROTECTED PROTECTION AVAILABILITY PERFORMANCE}

1.3.230. LONGOPS_KEEP_INTERVAL

LONGOPS_KEEP_INTERVAL specifies the retention time (in minutes) for history of long-running operations.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10080
Class	Optional, Adjustable, Dynamic, System
Range	10(10 min) - 40320(4 weeks)

1.3.231. LONGOPS_THRESHOLD_SEC

LONGOPS_THRESHOLD_SEC specifies timeout (in seconds) of performing an operation. If it takes longer than this time to handle an operation, the operation is regarded as a long-running operation and registered in v\$session_longops.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, Session

Property	Description
Range	0(sec) ~ 10000(sec)

1.3.232. LONG_OPERATION_KEEP_COUNT

LONG_OPERATION_KEEP_COUNT specifies the number of high-load SQL statements on which to gather statistics.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Persistent, Static, System
Range	

1.3.233. LSNR_DENIED_IP

LSNR_DENIED_IP specifies the list of IPs that cannot connect to the listener. This parameter can be set with the same method for setting LSNR_INVITED_IP. If LSNR_INVITED_IP is set, setting in LSNR_DENIED_IP will be ignored.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.234. LSNR_DENIED_IP_FILE

LSNR_DENIED_IP_FILE specifies the file containing the list of IPs that cannot connect to the listener. If the LSNR_INVITED_IP or the LSNR_INVITED_IP_FILE is set, setting in LSNR_DENIED_IP_FILE will be ignored.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.235. LSNR_INVITED_IP

LSNR_INVITED_IP specifies the list of IPs that can connect to the listener. Use a semicolon (;) to distinguish each IP. The IP format is address/number of bits as follows. (Ex) LSNR_INVITED_IP="192.168.20.0/24;192.168.10.101" 192.168.20.0/24 : Accept all IP connections starting with 192.168.20.xxx. 192.168.10.101 : If the number of bits is omitted, accept only the corresponding IP.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.236. LSNR_INVITED_IP_FILE

LSNR_INVITED_IP_FILE specifies the file containing the list of IPs that can connect to the listener. A single IP address is written in each line of the file. The IP format is address/number of bits like LSNR_INVITED_IP. @range :

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.237. LSNR_LISTEN_BACKLOG

LSNR_LISTEN_BACKLOG specifies the maximum length of the queue of pending connections.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	250
Class	Optional, Adjustable, Static, System
Range	

1.3.238. LSNR_LOG_DEST

LSNR_LOG_DEST specifies the directory where the listener log files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System
Range	

1.3.239. LSNR_LOG_FILE_SIZE

LSNR_LOG_FILE_SIZE specifies the maximum size of each listener log file. If a single log file grows more than the size specified in this parameter, the current log file will be closed and a new file will be created.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10485760
Class	Optional, Adjustable, Static, System
Range	100K - 1G

1.3.240. LSNR_LOG_TOTAL_SIZE_LIMIT

LSNR_LOG_TOTAL_SIZE_LIMIT specifies the maximum total file size that can be stored in the directory set in LSNR_LOG_DEST. Use this parameter to prevent database log files from growing endlessly by deleting the oldest files when the file size exceeds the specified value and hence reusing the database space.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	300 * 1024 * 1024
Class	Optional, Adjustable, Static, System
Range	100K - INT64_MAX

1.3.241. LSNR_SCHEDULE_SAME_PROC_FIRST

Scheduling method for passing a new session to a working process when a listener gets the session. There are two methods. If set to Y, sessions are sent to a working process until all wthr of the process are in busy state. If set to N, sessions are evenly distributed to multiple working processes.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.242. MAX_BG_SESSION_COUNT

Number of sessions for processing internal tasks and jobs among MAX_SESSION_COUNT that are not sessions requested by LSNR. As many as MAX_SESSION_COUNT - MAX_BG_SESSION_COUNT sessions can be started from LSNR. MAX_BG_SESSION_COUNT must be smaller than MAX_SESSION_COUNT and must be divisible by WTHR_PER_PROC.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	0 ~ INT32_MAX

1.3.243. MAX_SESSION_COUNT

Specifies the maximum number of sessions provided by a server. If necessary, the number of worker processes configuring a session and the number of worker threads per process can be manually specified using `WTHR_PROC_CNT` and `WTHR_PER_PROC` respectively. `WTHR_PROC_CNT` times `WTHR_PER_PROC` must be `MAX_SESSION_COUNT`. If a user does not manually specify `WTHR_PROC_CNT` and `WTHR_PER_PROC`, the default values of the number of worker threads per process (`WTHR_PER_PROC`) is 10, and the number of worker processes (`WTHR_PROC_CNT`) is `MAX_SESSION_COUNT/WTHR_PER_PROC` (round up if there is a remainder). In Windows NT. Windows Server 2003 and below, `MAX_SESSION_COUNT` should be set to an appropriate value of 1500 or less.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	20
Class	Mandatory, Adjustable, Static, System
Range	1 ~ INT32_MAX

1.3.244. MEMORY_MAX_TARGET

Specifies the potential total amount of usable memory (shared memory plus private memory) of an instance for the foreseeable future, in bytes.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MEMORY_TARGET
Class	Optional, Adjustable, Static, System
Range	1M -

1.3.245. MEMORY_MODEL

MEMORY_MODEL specifies the memory model predefined by size.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	<code>TOTAL_SHM_SIZE <= 2147483648 ? "SMALL" : TOTAL_SHM_SIZE <= 34359738368 ? "MEDIUM" : "LARGE"</code>
Class	Optional, Adjustable, Static, System
Range	SMALL MEDIUM LARGE

1.3.246. MEMORY_TABLESPACE_SIZE

MEMORY_TABLESPACE_SIZE specifies the maximum size of the memory tablespace.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	0

1.3.247. MEMORY_TARGET

Specifies the current total amount of usable memory (shared memory plus private memory) of an instance, in bytes.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Mandatory, Adjustable, Dynamic, System
Range	1M -

1.3.248. MEM_LOG_DEST

MEM_LOG_DEST specifies the directory in which the memory log file is saved. The absolute path should be specified.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System
Range	

1.3.249. NAMED_PIPE_DIR

NAMED_PIPE_DIR specifies the directory where named pipes used between processes are created while starting and closing the system.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.250. NBU_ARCHIVELOG_SEARCH

Whether to search archive logs in NetBackup to show in v\$archive_dest_files or restore them for Media Recovery.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.251. NBU_ARCHIVE_POLICY_NAME

NetBackup policy name for archivelogs

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"TIBERO_ARCHIVE_POLICY"
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.252. NBU_ARCHIVE_RETRY_CNT

Retry counts when fails to create an archivelog at NetBackup.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	2
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.253. NBU_BACKUP_INST_SID

SID of instance performing rmgr backup operations

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.254. NBU_BACKUP_POLICY_NAME

NetBackup policy name for backupsets

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"TIBERO_BACKUP_POLICY"
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.255. NBU_BSA_API_VERSION

Backup service API version for NetBackup connection.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"1.1.0"
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.256. NBU_CLIENT_COUNT

the number of NetBackup clients

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.257. NBU_CLIENT_HOSTNAME_0

hostname of NetBackup client 0

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.258. NBU_CLIENT_HOSTNAME_1

hostname of NetBackup client 1

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.259. NBU_CLIENT_HOSTNAME_2

hostname of NetBackup client 2

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.260. NBU_CLIENT_HOSTNAME_3

hostname of NetBackup client 3

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.261. NBU_CLIENT_HOSTNAME_4

hostname of NetBackup client 4

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.262. NBU_CLIENT_HOSTNAME_5

hostname of NetBackup client 5

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.263. NBU_CLIENT_HOSTNAME_6

hostname of NetBackup client 6

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.264. NBU_CLIENT_HOSTNAME_7

hostname of NetBackup client 7

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.265. NBU_CLIENT_HOSTNAME_8

hostname of NetBackup client 8

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.266. NBU_CLIENT_HOSTNAME_9

hostname of NetBackup client 9

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.267. NBU_CLIENT_HOST_NAME

Hostname of the system where NetBackup client locates.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.268. NBU_MASTER_HOST_NAME

Hostname of the system where NetBackup master locates.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.269. NBU_OBJ_OWNER_GROUP_NAME

Owner group name which can access to NetBackup.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.270. NBU_OBJ_OWNER_NAME

Owner name who can access to NetBackup.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.271. NBU_PROC_WTHR_CNT

Number of NetBackup working processes. Its name should be NBU_PROC_CNT. RMGR parallel backup/recover uses 1 lock_slave + rv slaves for DF, not --archive-only.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	(RECO_PROC_WTHR_CNT - _CACHE_RECO_DOP - 3)/2
Class	Optional, Adjustable, Static, System
Range	1 - 4096

1.3.272. NBU_SCHEDULE_NAME

NetBackup schedule name

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.273. NBU_SKIP_HOST_CHECK

skip the consistency check between hostname and SID

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.274. NLS_CALENDAR

NLS_CALENDAR specifies which calendar system Tiberio uses.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"GREGORIAN"
Class	Optional, Adjustable, Dynamic, Session
Range	GREGORIAN JAPANESE IMPERIAL THAI BUDDHA

1.3.275. NLS_COMP

NLS_COMP specifies the comparison behavior of SQL operations. The characters are compared according to their binary sequence or linguistic sequence defined in NLS_SORT.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"BINARY"
Class	Optional, Adjustable, Dynamic, Session
Range	BINARY LINGUISTIC

1.3.276. NLS_CURRENCY

NLS_CURRENCY specifies the local currency symbol string for the 'L' number format.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"\$"
Class	Optional, Adjustable, Dynamic, Session
Range	Maximum 10 characters in length

1.3.277. NLS_DATE_FORMAT

NLS_DATE_FORMAT specifies the default date format for date display.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"YYYY/MM/DD"
Class	Optional, Adjustable, Dynamic, Session
Range	Any valid date format mask up to 64 characters in length

1.3.278. NLS_DATE_LANGUAGE

NLS_DATE_LANGUAGE specifies the language to use the spelling of date format elements.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"KOREAN"
Class	Optional, Adjustable, Dynamic, Session
Range	KOREAN AMERICAN JAPANESE VIETNAMESE BRAZILIAN PORTUGUESE TRADITIONAL CHINESE RUSSIAN SIMPLIFIED CHINESE THAI GERMAN SPANISH ITALIAN BULGARIAN CATALAN DANISH DUTCH FINNISH POLISH FRENCH NORWEGIAN LITHUANIAN CROATIAN CZECH ESTONIAN HEBREW HUNGARIAN ICELANDIC LATVIAN PORTUGUESE ROMANIAN SLOVAK SWEDISH TURKISH ENGLISH

1.3.279. NLS_DUAL_CURRENCY

NLS_DUAL_CURRENCY specifies the dual currency symbol string for the 'U' number format.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"\$"
Class	Optional, Adjustable, Dynamic, Session
Range	Maximum 10 characters in length

1.3.280. NLS_ISO_CURRENCY

NLS_ISO_CURRENCY determines the international currency symbol string for the 'C' number format.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"KOREA"

Property	Description
Class	Optional, Adjustable, Dynamic, Session
Range	Any valid NLS_TERRITORY value

1.3.281. NLS_LANGUAGE

NLS_LANGUAGE specifies the current language for the session.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"KOREAN"
Class	Optional, Adjustable, Dynamic, Session
Range	AMERICAN KOREAN JAPANESE SIMPLIFIED CHINESE BRAZILIAN PORTUGUESE BULGARIAN CATALAN CZECH DANISH DUTCH ENGLISH ESTONIAN FINNISH FRENCH GERMAN HEBREW HUNGARIAN ICELANDIC ITALIAN LITHUANIAN NORWEGIAN POLISH PORTUGUESE ROMANIAN RUSSIAN SLOVAK SPANISH SWEDISH THAI TRADITIONAL CHINESE TURKISH VIETNAMESE

1.3.282. NLS_LANG_AT_BOOT

NLS_LANG_AT_BOOT specifies the default character set before the database is mounted.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	MSWIN949
Class	Optional, Adjustable, Static, System
Range	Available Character Set

1.3.283. NLS_LENGTH_SEMANTICS

NLS_LENGTH_SEMANTICS specifies the default character length semantics.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"BYTE"
Class	Optional, Adjustable, Dynamic, Session
Range	CHAR BYTE

1.3.284. NLS_NUMERIC_CHARACTERS

NLS_NUMERIC_CHARACTERS specifies the characters for the thousand group separator and decimal character for the session.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	".,"
Class	Optional, Adjustable, Dynamic, Session
Range	Two different single-byte characters, excluding the following characters: +, -, <, >

1.3.285. NLS_SORT

NLS_SORT specifies the collating sequence used by ORDER BY queries.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"BINARY"
Class	Optional, Adjustable, Dynamic, Session
Range	BINARY EBCDIC GERMAN FRENCH DUTCH THAI_DICTIONARY SCHINESE_PINYIN UNICODE_BINARY

1.3.286. NLS_TERRITORY

NLS_TERRITORY specifies the name of the territory for the session.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"KOREA"
Class	Optional, Adjustable, Dynamic, Session
Range	AMERICA KOREA JAPAN CHINA AUSTRALIA AUSTRIA BELGIUM BRAZIL CANADA CZECH REPUBLIC EGYPT FILAND FRANCE GER MANY GREECE HONG KONG HUNGARY INDONESIA IRAQ ITALY MALAYSIA MEXICO POLAND RUSSIA SINGAPORE SPAIN SWEDEN TAIWAN THAILAND THE NETHERLANDS TURKEY UKRAINE UNITED KINGDOM VIETNAM

1.3.287. NLS_TIMESTAMP_FORMAT

NLS_TIMESTAMP_FORMAT specifies the default timestamp format to be used when the database is started.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"YYYY/MM/DD HH24:MI:SSXFF"
Class	Optional, Adjustable, Dynamic, Session
Range	Maximum 64 characters in length

1.3.288. NLS_TIMESTAMP_TZ_FORMAT

NLS_TIMESTAMP_TZ_FORMAT specifies the default timestamp time zone format to be used when the database is started.

- Parameter Format

Property	Description
Parameter Type	String

Property	Description
Default Value	"YYYY/MM/DD HH24:MI:SSXFF TZR"
Class	Optional, Adjustable, Dynamic, Session
Range	Maximum 64 characters in length

1.3.289. NLS_TIME_FORMAT

NLS_TIME_FORMAT specifies the default time format to be used when the database is started.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"HH24:MI:SSXFF"
Class	Optional, Adjustable, Dynamic, Session
Range	Maximum 64 characters in length

1.3.290. NLS_TIME_TZ_FORMAT

NLS_TIME_TZ_FORMAT specifies the default time time zone format to be used when the database is started.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"HH24:MI:SSXFF TZR"
Class	Optional, Adjustable, Dynamic, Session
Range	Maximum 64 characters in length

1.3.291. NTF_LISTEN_PORT

Listening port for NTF sender. System event subscriber connects to this port.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	LISTENER_PORT + 6
Class	Optional, Adjustable, Static, System
Range	1024 ~ 65535

1.3.292. OMIT_PSM_SQL_LOG_ON_MEMORY

OMIT_PSM_SQL_LOG_ON_MEMORY determines whether to write per-thread SQL of PSM unit logs in cacheable memory on file when an error occurred.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.293. OPEN_CURSORS

OPEN_CURSORS specifies the maximum number of cursors that a single session can open at once.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	50
Class	Optional, Adjustable, Dynamic, System
Range	10 - 1000
Syntax	OPEN_CURSORS=50

1.3.294. OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES

Enables or disables to capture and save repeated SQL statements for SQL plan baselines.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.295. OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES_DURATION

Time interval within which an already existing SQL statement is not captured.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, Session
Range	0 -

1.3.296. OPTIMIZER_LOG_OUTLINE

Specifies whether or not to log the plan outline.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.297. OPTIMIZER_MODE

OPTIMIZER_MODE specifies the goal of the SQL query optimizer.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"ALL_ROWS"
Class	Optional, Adjustable, Dynamic, Session
Range	10 - 1000
Syntax	{ FIRST_ROWS_[1 10 100 1000] ALL_ROWS }

1.3.298. OPTIMIZER_TRACE

optimizer trace dump

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.299. OPTIMIZER_USE_INVISIBLE_INDEXES

OPTIMIZER_USE_INVISIBLE_INDEXES specifies the availability of invisible indexes

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.300. OPTIMIZER_USE_SQL_PLAN_BASELINES

Enables or disables to use the created SQL plan baselines.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.301. OPTIMIZER_USE_SQL_PROFILES

Specifies whether or not to use the profile.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.302. OS_AUTH_PREFIX

Prefix for OS authenticated user.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"OSA\$"
Class	Optional, Adjustable, Static, System
Range	

1.3.303. PARALLEL_DEFAULT_DOP

- Parameter Format

Property	Description
Parameter Type	Integer

Property	Description
Default Value	4
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.304. PARALLEL_GRANULE_SIZE

PARALLEL_GRANULE_SIZE specifies the number of segment blocks (granule size) read into memory in a single SQL query performing a full table scan.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	3
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.305. PARALLEL_THREADS_PER_CPU

PARALLEL_THREADS_PER_CPU specifies the number of parallel execution threads per CPU.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	2
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.306. PEP_PROC_CNT

PEP_PROC_CNT specifies the number of pe processes.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	6
Class	Optional, Adjustable, Static, System
Range	0 - 10000

1.3.307. PP_SAVE_SYS_BINDVAR

Specifies whether or not to save system bind variables in PP cache when cursor_sharing is set to 'force'.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.308. PRIVKEY_FILE

PRIVKEY_FILE specifies the location of the private key files. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	
Syntax	PRIVKEY_FILE=filename[:filename [...]]

1.3.309. PSM_CODE_TYPE

PSM_CODE_TYPE specifies the interpreter mode in which PSM is implemented. It is efficient to use in interpreter mode for anonymous blocks.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"INTERPRETED"
Class	Optional, Adjustable, Dynamic, Session
Range	INTERPRETED

1.3.310. PSM_DEBUG

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.311. PSM_ERROR_CONV

Option to automatically convert the err_no in pragma exception_init(exception, err_no).

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.312. PSM_SHLIB_DIR

When a PSM subprogram or anonymous block is implemented in compile mode, PSM_SHLIB_DIR creates a shared library by converting PSM code into C code. The shared library location is stored as an absolute path. If not specified, the shared library will be stored in the DB_CREATE_FILE_DEST/psm directory. (deprecated)

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.313. PSM_SQL_RESULT_CACHE

PSM_SQL_RESULT_CACHE determines whether to enable the PSM's feature for caching the SQL results.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.314. QUERY_REWRITE_ENABLED

QUERY_REWRITE_ENABLED enables or disables query rewrite which is globally applied for the database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"TRUE"
Class	Optional, Adjustable, Dynamic, Session
Range	FALSE TRUE FORCE

1.3.315. QUERY_REWRITE_INTEGRITY

Sets the level of query rewrite integrity.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"ENFORCED"
Class	Optional, Adjustable, Dynamic, Session
Range	STALE_TOLERATED ENFORCED

1.3.316. RECO_PROC_WTHR_CNT

it specifies the number of recovery working processes.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	35 + _CACHE_RECO_DOP
Class	Optional, Adjustable, Static, System
Range	1 - INT32_MAX

1.3.317. RESULT_CACHE_MAX_RATIO

The maximum size ratio of a query that can be cached. For example, if RESULT_CACHE_MAX_SIZE is 10MB and this value is set to 5, the maximum query size that can be cached will be 500KB, which is 5% of 10MB.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Dynamic, System
Range	1 - 100

1.3.318. RESULT_CACHE_MAX_SIZE

The maximum memory size that can be used by the result cache in shared memory. If this value is set to 0, the result cache function will be disabled.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	TOTAL_SHM_SIZE / 100
Class	Optional, Adjustable, Dynamic, System
Range	0 -

1.3.319. RESULT_CACHE_MODE

RESULT_CACHE_MODE determines which query results to store in cache. If this value is set to MANUAL, the query result will be stored only when the "RESULT_CACHE" hint is used. If this value set to FORCE, all query results will be stored in cache.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"MANUAL"
Class	Optional, Adjustable, Dynamic, Session
Range	MANUAL FORCE

1.3.320. RESUMABLE_SPACE_ALLOC

RESUMABLE_SPACE_ALLOC determines whether to enable the resumable space allocation feature.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.321. RESUMABLE_SPACE_ALLOC_TIMEOUT

RESUMABLE_SPACE_ALLOC_TIMEOUT specifies a time interval in seconds at which the resumable space allocation will occur.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, Session
Range	0 - INT32_MAX seconds

1.3.322. RMGR_BACKUP_DEST

RMGR_BACKUP_DEST specifies the directory where RMGR backup files are stored. It must be specified as an absolute path outside active storage.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.323. RMGR_CATALOG_SID

DB SID of the catalog database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.324. RMGR_NBU_BACKUP_DEST

RMGR_NBU_BACKUP_DEST specifies the directory where RMGR backup files are stored when USE_NBU_FOR_BACKUPSET=Y.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.325. RMGR_PRIMARY_SID

DB SID of the primary database. When tbrmgr connected to the standby database and RMGR_PRIMARY_SID is defined, tbrmgr also connects to the primary database.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.326. RMGR_RESTORE_BACKUP_CF

Always restores CF, although CF exists.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.327. RMGR_TAR_PATH

tar path for RMGR

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.328. RSBTBL_BUCKET_CNT_PER_ROOT_LIST_FOR_RECONFIGURATION

RSBTBL_BUCKET_CNT_PER_ROOT_LIST_FOR_RECONFIGURATION specifies the number of rsb table buckets in a root list.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	100
Class	Optional, Persistent, Dynamic, System
Range	

1.3.329. RSRC_CHECK_INTERVAL

RSRC_CHECK_INTERVAL specifies the resource manager thread check interval in seconds.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	3
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.330. RSRC_CONTROL_THRESHOLD

RSRC_CONTROL_THRESHOLD specifies the resource manager control threshold in percentage.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	90
Class	Optional, Adjustable, Dynamic, System
Range	0 ~ 100

1.3.331. RT_AWAKE_WAITER_INTERVAL

RT_AWAKE_WAITER_INTERVAL specifies the time interval (in 0.1 seconds) that the flow control resource tuner awakes waiting WTHR.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Dynamic, System
Range	10 - 600 (1 - 60 seconds)

1.3.332. RT_UPDATE_ALLOWABLE_INFLOW_CNT_INTERVAL

RT_UPDATE_ALLOWABLE_INFLOW_CNT_INTERVAL specifies the time interval (in 0.1 seconds) that the flow control resource tuner updates a desired control value.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Dynamic, System
Range	10 - 600 (1 - 60 seconds)

1.3.333. SANITY_CHECK_DURING_LOG_SWITCH

SANITY_CHECK_DURING_LOG_SWITCH determines whether to check lost or damaged log files during LOG SWITCH.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.334. SEGMENT_EXTEND_LAST

SEGMENT_EXTEND_LAST enables the submission of the extension request on segment of a size smaller than the one of the previous request which failed due to shortages of segment space.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.335. SEM_KEY

SEM_KEY specifies the key of the semaphore to be used by each instance. In general, if this parameter is not defined, it will be automatically assigned a value. This is the same as in the [SHM_KEY](#) parameter. However, this can cause a conflict between programs using the same semaphore set and thus this parameter should be used to give a unique semaphore key for each instance.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System

Property	Description
Range	

1.3.336. SEM_SET_COUNT

The number of semaphore sets which apply to the communication between processes and threads. If `_SEM_APR` is set to Y, the `SEM_SET_COUNT` value will be set to the total number of server processes or threads. If `_SEM_ARR` is set to N, the `SEM_SET_COUNT` value will be set to a user-defined value or the default value.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1
Class	Optional, Adjustable, Static, System
Range	

1.3.337. SEPARATION_OF_DUTIES

`SEPARATION_OF_DUTIES` creates `SYSADM`, `SYSSEC` and `SYSAUD` users such that the duties of `SYS` are separated and assigned to three users. `SYSSEC` manages user accounts and controls user profiles. `SYSAUD` can audit anything on the database. `SYSADM` has all privileges except for those of `SYSSEC` and `SYSAUD`. These administrator accounts are created during installation, and `SYS` account becomes locked and cannot be unlocked.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Persistent, Static, System
Range	

1.3.338. SERVER_LOAD_TOLERANCE

`SERVER_LOAD_TOLERANCE` specifies the maximum limit to be used for server load balancing.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Dynamic, System
Range	0 - (ms/#)

1.3.339. SERVER_SIDE_LOAD_BALANCE

SERVER_SIDE_LOAD_BALANCE specifies server load-balancing behavior. NONE: Server load balancing is not performed. SHORT: The load is balanced based on differences in the processing speed of servers. LONG: The load is balanced based on differences in the session count of servers.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"NONE"
Class	Optional, Adjustable, Dynamic, System
Range	NONE SHORT LONG

1.3.340. SERVICE_CONTROL_STOP_DOWNMODE

SERVICE_CONTROL_STOP_DOWNMODE specifies a server down mode used to suspend a DBMS service from Windows Service Manager.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"IMMEDIATE"
Class	Optional, Adjustable, Static, System
Range	
Syntax	{normal post_tx immediate abort switchover abnormal NORMAL POST_TX IMMEDIATE ABORT SWITCHOVER ABNORMAL}

1.3.341. SHARED_PARAMETER_FILE

SHARED_PARAMETER_FILE specifies the parameter file that can be shared. (deprecated)

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	

1.3.342. SHM_KEY

SHM_KEY specifies the key of the shared memory to be used by each instance. In general, if this parameter is not defined, it will be automatically assigned a value. However, this can cause a conflict between programs using the same shared memory key and thus this parameter should be used to give a unique shared memory key for each instance.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System
Range	

1.3.343. SHP_ALLOC_DUMP_IDX

The allocator index to dump when SHP_ALLOC_FULL_DUMP=N. (Deprecated)

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.344. SHP_ALLOC_FULL_DUMP

Determines whether to record detailed information when dumping the shared pool allocator.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.345. SLAB_BLOCK_RESERVED_COUNT

SLAB_BLOCK_RESERVED_COUNT specifies the number of blocks maintained in the slab allocator.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4
Class	Optional, Adjustable, Dynamic, System
Range	2 - 1024

1.3.346. SLOG_DEST

SLOG_DEST specifies the directory where system log files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.347. SLOG_DISPLAY_YEAR

Option to output a year in sys.log generated by Tiberio. If set to Y, the log format is YYYY/MM/DD. If set to N, it is MM/DD.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.348. SLOG_FILE_SIZE

SLOG_FILE_SIZE specifies the maximum size of each system log file. If a single system log file grows more than the size specified in this parameter, the current system log file will be closed and a new file will be created.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	104857600
Class	Optional, Adjustable, Static, System
Range	100K - 1G

1.3.349. SLOG_HISTORY

SLOG_HISTORY determines whether to gather system log history.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.350. SLOG_HISTORY_BUFSIZE

SLOG_HISTORY_BUFSIZE specifies the size of a system log history buffer.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	256
Class	Optional, Adjustable, Static, System
Range	

1.3.351. SLOG_HISTORY_QSIZE

SLOG_HISTORY_QSIZE specifies the number of system log on which histories are to be gathered.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4
Class	Optional, Adjustable, Static, System
Range	

1.3.352. SLOG_TOTAL_SIZE_LIMIT

SLOG_TOTAL_SIZE_LIMIT specifies the maximum total file size that can be stored in the directory set in SLOG_DEST. Use this parameter to prevent database log files from growing endlessly by deleting the oldest files when the file size exceeds the specified value and hence reusing the database space.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	300 * 1024 * 1024
Class	Optional, Adjustable, Dynamic, System
Range	100K -

1.3.353. SLOG_VIEW_SIZE

SLOG_VIEW_SIZE specifies the maximum size of logs to load on v\$log. If the value is set to 0, all logs in sys.log will be loaded on v\$log.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1048576
Class	Optional, Adjustable, Dynamic, System
Range	0 - 1G

1.3.354. SORT_AREA_SIZE

SORT_AREA_SIZE specifies the maximum size of memory that RDBMS will allow for a one-pass sorting. The data which exceeds the specified range is sorted using two-pass sorting. If this parameter is specified too large, all sort operations will be performed using a one-pass sort, which leads to a drastic decrease in the number of SQL queries that can be simultaneously handled. If it is specified too small, all operations will be performed using two-pass and thus SQL queries take longer to execute. It is recommended to run a test with SQL queries to determine the memory usage required to execute each SQL query and check its frequency and degree of importance using the trace file. After determining an appropriate value based on this information, 10% - 50% should be added to the value for the proper memory size.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	(MEMORY_TARGET - TOTAL_SHM_SIZE) * 0.3
Class	Optional, Adjustable, Dynamic, Session
Range	(DB_BLOCK_SIZE * DFLT_DB_FILE_MULTIBLOCK_READ_COUNT) -

1.3.355. SPIN_PARAMETER_AUTO_ADJUST

The feature of automatically adjusting the spinlock parameter

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.356. SPIN_PARAMETER_PER_TYPE

Determines whether to separately specify the spinlock parameter by type.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.357. SQLTUNE_CATEGORY

SQL tuning category. The Optimizer applies a profile that matches this category.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"DEFAULT"
Class	Optional, Adjustable, Dynamic, Session
Range	up to 128 characters

1.3.358. SQL_LOG_ON_MEMORY

SQL_LOG_ON_MEMORY determines whether to write per-thread SQL logs in cacheable memory on file when an error occurs.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.359. SQL_LOG_ON_MEMORY_SIZE

SQL_LOG_ON_MEMORY_SIZE specifies the size of the buffer which each thread will use to write logs to file when the SQL_LOG_ON_MEMORY parameter is enabled.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	102400
Class	Optional, Adjustable, Dynamic, System
Range	100K - 10M

1.3.360. SQL_STAT_HISTORY

SQL_STAT_HISTORY determines whether to gather statistics on SQL statements.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.361. SQL_STAT_HISTORY_QSIZE

SQL_STAT_HISTORY_QSIZE specifies the number of SQL statements per thread on which statistics are to be gathered.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	50
Class	Optional, Adjustable, Static, System
Range	

1.3.362. SQL_STAT_HISTORY_THRESHOLD

SQL_STAT_HISTORY_THRESHOLD specifies the data gathering threshold for SQL statements. With SQL_STAT_HISTORY enabled, SQL statements are gathered if the specified execution period (ms) is exceeded.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	50
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.363. SQL_TRACE

SQL_TRACE determines whether to record SQL trace information or not. The SQL trace enables profiling of SQL execution information. However, since using this function affects server performance, it is recommended not to use this function in a real server operating environment.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.364. SQL_TRACE_DEST

SQL_TRACE_DEST specifies the directory where the SQL trace file will be stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.365. SQL_TRACE_LEVEL

Controls the amount of information saved in the SQL trace. [1]: Traces basic information (default), [4]: Level 1 + Bind information, [8]: Level 1 + Wait information, [12]: Level 1 + Level 4 + Level 8

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1
Class	Optional, Adjustable, Dynamic, Session
Range	1 4 8 12

1.3.366. SQL_TRANSLATION_PROFILE

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.367. SSVR_FC_DIRTY_BIN_RATIO_MAX

SSVR_FC_DIRTY_BIN_RATIO_MAX specifies the maximum ratio of dirty bin to keep in the storage server flash cache.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	80
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.368. SSVR_FC_FREE_BIN_RATIO

SSVR_FC_FREE_BIN_RATIO specifies the ratio of free bin to keep in the storage server flash cache.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.369. SSVR_FC_WS_CNT

SSVR_FC_WS_CNT specifies the number of working sets per device in the storage server flash cache.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MAX(1, get_ncpu())
Class	Optional, Adjustable, Static, System
Range	
Syntax	1 ~ INT32_MAX

1.3.370. SSVR_RECV_PORT_START

SSVR_RECV_PORT_START specifies the listening port of the storage server.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	Depending on system environment
Class	Optional, Adjustable, Static, System
Range	1024 - 65535

1.3.371. SSVR_TPM_SENDER_INTERVAL

Specifies the interval (in 0.1 s) for checking/retrying sender connections when TPM is activated in SSVR (Storage Server).

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	50
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.372. SSVR_USE_AGNT

Specifies whether or not to activate AGNT process that enables background utilities, such as callstack dump, in SSVR (Storage Server).

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.373. SSVR_USE_FC

SSVR_USE_FC specifies whether or not the storage server uses flash cache.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.374. SSVR_USE_IB

SSVR_USE_IB specifies whether or not to use InfiniBand for server connections.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	!SSVR_USE_TCP
Class	Optional, Adjustable, Static, System
Range	

1.3.375. SSVR_USE_SDM

SSVR_USE_SDM specifies whether or not the storage server uses Storage Data Map (SDM).

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.376. SSVR_USE_TCP

SSVR_USE_TCP specifies whether or not to use TCP for server connections.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.377. SSVR_USE_TPM

Specifies whether or not to activate TPM (Tibero Performance Monitor) in SSVR (Storage Server).

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.378. SSVR_WTHR_CNT

ssvr worker threads count

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MAX(1, get_ncpu())
Class	Optional, Adjustable, Static, System
Range	

1.3.379. STANDBY_ENABLE_CASCADE

Allows LNW to send Redo Log to another node in recovery mode

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.380. STANDBY_ENABLE_LOG_RECOVERY

Determines whether to send redo log for a dead node in TAC standby.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.381. STANDBY_ENABLE_TAC_MULTINODE

Enable two nodes or more to boot for standby in TAC-standby.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.382. STANDBY_FILE_NAME_CONVERT

STANDBY_FILE_NAME_CONVERT specifies the prefix conversion rule used for converting the Primary DB path to the Standby DB path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Static, System
Range	
Syntax	{<primary path>,<standby path>}, ...

1.3.383. STANDBY_FLUSH_WAIT

Determines whether to send an ack message after flushing the redo log received by standby.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.384. STANDBY_LOG_ARCHIVE_DEST

Specifies the absolute path of the directory where the standby archive logs.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	''''
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.385. STANDBY_LOG_ARCHIVE_FORMAT

Specifies the format of the standby archive log file.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"st-t%t-r%r-s%s.arc"
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.386. STANDBY_USE_OBSERVER

Option to enable observer in STANDBY

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.387. STAR_TRANSFORMATION_ENABLED

STAR_TRANSFORMATION_ENABLED enables or disables star transformation.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"FALSE"
Class	Optional, Adjustable, Dynamic, Session
Range	TRUE FALSE

1.3.388. STORAGE_PROCESSING

STORAGE_PROCESSING specifies whether or not the databases use smart scan.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.389. SUMMARY_FIRST_IN_GROUPBY_CUBE

Displays the summary row before the sub-total row of each group in the result set of Group By Cube().

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.390. TABLE_GLOBAL_COMPRESSION

TABLE_GLOBAL_COMPRESSION determines whether to perform compression using a global symbol table.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.391. TAS5_STORAGE_MODE

TAS5_STORAGE_MODE specifies whether or not to use TAS5 with databases or storage servers.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.392. TAS_DB_UUID

TAS_DB_UUID specifies a unique ID to access cloud storage VM.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"DBUUID00"
Class	Optional, Adjustable, Static, System
Range	

1.3.393. TAS_OPEN_FILE_MAX

TAS_OPEN_FILE_MAX specifies the maximum number of files that can be opened in the cloud storage.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4096
Class	Optional, Adjustable, Static, System
Range	

1.3.394. TAS_SERVER_IP

TAS_SERVER_IP specifies the IP of databases or storage servers used in TCS configuration.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"127.0.0.1"
Class	Optional, Persistent, Static, System
Range	

1.3.395. TAS_VM_ADDR

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"127.0.0.1"
Class	Optional, Adjustable, Static, System
Range	

1.3.396. TAS_VM_PORT

- Parameter Format

Property	Description
Parameter Type	String
Default Value	"32000"
Class	Optional, Adjustable, Static, System
Range	

1.3.397. TCP_RCVBUF_SIZE

TCP_RCVBUF_SIZE specifies the size of the TCP receive buffer

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	

1.3.398. TCP_SNDBUF_SIZE

TCP_SNDBUF_SIZE specifies the size of the TCP send buffer

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Static, System
Range	

1.3.399. TDE_HASH_VERIFICATION

Verify data integrity during decryption.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.400. TDE_SELF_UPDATE_MODIFICATION_DEFENCE

Defend against the self update modification attack. Update will be changed to delete and insert, and performance will be degraded. Rowid will also be changed: SELECT FOR UPDATE will not be supported.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.401. TEMP_GRANULE_SIZE

TEMP_GRANULE_SIZE specifies the number of blocks to be allocated for each node when managing the temporary tablespace of each node in the TAC environment.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1000
Class	Optional, Adjustable, Static, System
Range	

1.3.402. TEMP_TS_CNT_MAX

The maximum number of temp tablespace that can be created.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Static, System
Range	

1.3.403. THREAD

THREAD specifies the redo thread number to be used by instances.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Persistent, Static, System
Range	0 - 1024

1.3.404. THROW_WHEN_GETTING_OSSTAT_FAIL

THROW_WHEN_GETTING_OSSTAT_FAIL specifies whether or not to throw an error when a call to get the 'osstat' information fails because the file doesn't exist in the system.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.405. TIBERO_PERFORMANCE_REPOSITORY

TIBERO_PERFORMANCE_REPOSITORY determines whether to activate the TPR feature.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.406. TOTAL_SHM_MAX_SIZE

TOTAL_SHM_MAX_SIZE specifies the potential total size of shared memory size used by instances.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	TOTAL_SHM_SIZE
Class	Optional, Adjustable, Static, System
Range	32 bit machine: 1M - UINT32_MAX, 64 bit machine: 1 M - INT64_MAX

1.3.407. TOTAL_SHM_SIZE

TOTAL_SHM_SIZE specifies the current total size of shared memory size used by instances.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Mandatory, Adjustable, Dynamic, System
Range	32 bit machine: 1M - UINT32_MAX, 64 bit machine: 1 M - INT64_MAX

1.3.408. TPR_AGGREGATION

TPR_AGGREGATION determines whether to aggregate information of snapshots removed due to retention over into one predetermined snapshot.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.409. TPR_METRIC

TPR_METRIC determines whether to collect metric statistics.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.410. TPR_SEGMENT_STATISTICS

TPR_SEGMENT_STATISTICS determines whether to collect segment statistics.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.411. TPR_SNAPSHOT_RETENTION

TPR_SNAPSHOT_RETENTION specifies the period, in days, to retain TPR snapshot data.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	7
Class	Optional, Adjustable, Dynamic, System
Range	1 ~ 1500

1.3.412. TPR_SNAPSHOT_SAMPLING_INTERVAL

TPR_SNAPSHOT_SAMPLING_INTERVAL specifies the interval, in minutes, to sample TPR snapshot data.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	60
Class	Optional, Adjustable, Dynamic, System
Range	1 ~ 50400

1.3.413. TPR_SNAPSHOT_TOP_SEGMENT_CNT

TPR_SNAPSHOT_TOP_SEGMENT_CNT specifies the count of segments to display in tpr report.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Static, System
Range	5 ~ 1000

1.3.414. TPR_SNAPSHOT_TOP_SQL_CNT

TPR_SNAPSHOT_TOP_SQL_CNT specifies the count of SQLs to display in tpr report.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	5
Class	Optional, Adjustable, Dynamic, System
Range	5 ~ 1000

1.3.415. TPR_SQL_PLAN_STAT

TPR_SQL_PLAN_STAT determines whether to collect statistics on an instance in the SQL statement execution plan at the time an SQL query is executed (only for TPR).

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.416. TRACE_DUMP_DEST

TRACE_DUMP_DEST specifies the directory to which trace dump files are stored. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.417. TRACE_LOG_DEST

TRACE_LOG_DEST specifies the directory where trace log files are stored. It must be specified as an absolute path. (Deprecated)

- Parameter Format

Property	Description
Parameter Type	String
Default Value	Depending on system environment
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.418. TRACE_LOG_FILE_SIZE

TRACE_LOG_FILE_SIZE specifies the maximum size of each trace log file. If a single trace log file grows more than the size specified in this parameter, the current trace log file will be closed and a new file will be created. (Deprecated)

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	104857600
Class	Optional, Adjustable, Static, System
Range	100K - 1G

1.3.419. TRACE_LOG_TOTAL_SIZE_LIMIT

TRACE_LOG_TOTAL_SIZE_LIMIT specifies the maximum total file size that can be stored in the directory set in TRACE_LOG_DEST. Use this parameter to prevent database log files from growing endlessly by deleting the oldest files when the file size exceeds the specified value and hence reusing the database space.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	300 * 1024 * 1024
Class	Optional, Adjustable, Static, System
Range	100K -

1.3.420. TSAM_PREFETCH_SIZE

TSAM_PREFETCH_SIZE specifies the size of the buffer to be prefetched when db file sequential read is enabled in TSAM API.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	4096

Property	Description
Class	Optional, Adjustable, Dynamic, System
Range	0K - 64K

1.3.421. TSN_SYNC_UDP_PORT

The UDP port to be used between nodes for TSN synchronization.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	55901
Class	Optional, Adjustable, Static, System
Range	1024 - 65535

1.3.422. TX_FORCE_COMMIT_DUMP

TX_FORCE_COMMIT_DUMP determines whether to dump undo records forcibly committed.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.423. UNDO_RETENTION

UNDO_RETENTION specifies the minimum time period in seconds for which undo can be retained.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	900

Property	Description
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.424. UNDO_TABLESPACE

UNDO_TABLESPACE specifies the undo tablespace to be used by a node. If this parameter is not specified, the first available undo tablespace will be used by default. This parameter must be defined in the TAC environment.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.425. USE_ACCURATE_NUMERIC_FUNC

Performs more accurate calculations on numeric functions.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.426. USE_ACTIVE_STORAGE

USE_ACTIVE_STORAGE specifies whether a database instance uses the Active Storage function by connecting to the Active Storage instance.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.427. USE_AD_AUTH

Using AD authentication or NOT (for user authentication)

- Parameter Format

Property	Description
Parameter Type	y_n
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.428. USE_BINARY_UPDATE

USE_BINARY_UPDATE determines whether use or not auto-binary-update when main svr booting.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.429. USE_HUGE_PAGE

Option to enable the SHM_HUGETLB flag in Linux to get shared memory segments with huge pages by using shmget().

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Persistent, Dynamic, System
Range	

1.3.430. USE_ILOG

USE_ILOG determines whether to record internal log.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Static, System
Range	

1.3.431. USE_NBU_FOR_ARCHIVELOG

Whether to create archive logs at NetBackup directly. If Y, no archive logs are created at local. For searching or restoring, use NBU_ARCHIVELOG_SEARCH.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.432. USE_NBU_FOR_BACKUPSET

When using RMGR, whether to create a backupset at NetBackup or restore the backupset from NetBackup.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.433. USE_NET_KEEPAIVE

USE_NET_KEEPAIVE determines whether to activate the socket option of the 'TCP keepalive'.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.434. USE_PROFILE

Determines whether to use the PROFILE feature.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.435. USE_PROFILE_LOGIN_LOGOUT_TIME

Determines whether to record login and logout time.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.436. USE_RECYCLEBIN

USE_RECYCLEBIN determines whether to use the recyclebin function. If this feature is used, the drop table command does not actually delete a table. In order to actually delete a table, use the purge command or give the purge option in the drop table command. The flashback table feature can be used.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.437. USE_RESOURCE_MANAGER

USE_RESOURCE_MANAGER specifies whether to use the resource manager or not.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.438. USE_STANDBY_REDO_LOG

Whether to use standby redo log or not.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Static, System
Range	

1.3.439. USE_STORED_OUTLINES

Determines whether to apply created outline.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, Session
Range	

1.3.440. USE_TRUNCATE_PRIVILEGE

Determines whether to use the TRUNCATE PRIVILEGE feature.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	N
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.441. USE_TS_QUOTA

Determines whether to use the TABLESPACE QUOTA feature.

- Parameter Format

Property	Description
Parameter Type	Boolean
Default Value	Y
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.442. USGMT_AUTO_SHRINK_INTERVAL

USGMT_AUTO_SHRINK_INTERVAL specifies the interval (in minutes) of occurrence of automatic undo segment shrinkage. If this parameter is set to 0, automatic undo segment shrinkage never happens.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	0
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.443. USGMT_ONLINE_MAX

Maximum number of undo segments created during database

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1000
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.444. USGMT_ONLINE_MIN

Number of undo segments to create when the database starts.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	11
Class	Optional, Adjustable, Static, System
Range	

1.3.445. UTL_FILE_DIR

UTL_FILE_DIR specifies the default directory used by the UTL_FILE package. If this parameter is not specified, the directory specified in PSM_SHLIB_DIR will be used by default. (deprecated)

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Dynamic, System
Range	

1.3.446. WALLET_FILE

WALLET_FILE specifies the location of the wallet files. It must be specified as an absolute path.

- Parameter Format

Property	Description
Parameter Type	String
Default Value	""
Class	Optional, Adjustable, Static, System
Range	
Syntax	WALLET_FILE=filename[:filename [...]]

1.3.447. WTHR_PER_PEP

WTHR_PER_PEP specifies the number of worker threads per PE process(PEP) .

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	16
Class	Optional, Adjustable, Static, System
Range	1 ~ 10000

1.3.448. WTHR_PER_PROC

Number of worker threads in a worker process.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	10
Class	Optional, Adjustable, Static, System
Range	1 ~ 10000

1.3.449. WTHR_PROC_CNT

WTHR_PROC_CNT specifies the number of working processes.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	MAX_SESSION_COUNT/WTHR_PER_PROC
Class	Optional, Adjustable, Static, System
Range	1 - 10000

1.3.450. WTHR_PROC_CNT_MAX

WTHR_PROC_CNT_MAX specifies the maximum number of working processes. With RDBMS started, as many working processes as defined in WTHR_PROC_CNT are implemented. If the number of working processes becomes insufficient during the operation of RDBMS, the number of working processes will be increased within the limit specified in this parameter. If the WTHR_PROC_CNT_MAX parameter is

set to the default value, the number of working processes defined in WTHR_PROC_CNT will be used as the maximum number of processes to run.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	WTHR_PROC_CNT
Class	Optional, Adjustable, Static, System
Range	1 - 10000

1.3.451. XA_MAX_BRANCH_CNT

XA_MAX_BRANCH_CNT specifies the maximum number of XA transaction branches that can run one instance at a time. Setting this value too large could result in excessive memory usage.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	1024
Class	Optional, Adjustable, Static, System
Range	256 - 8192

1.3.452. XA_TIMER_INTERVAL

XA_TIMER_INTERVAL specifies the interval for how often XA session timeouts are checked. The interval is specified in 0.1 seconds.

- Parameter Format

Property	Description
Parameter Type	Integer
Default Value	100
Class	Optional, Adjustable, Dynamic, System
Range	10 - 600 (1 - 60 seconds)

제2장 데이터 사전

본 장에서는 데이터 사전에 대한 개념과 구조를 설명하고 데이터 사전의 참조 및 갱신을 기술한다.

2.1. 개요

데이터 사전(Data Dictionary)은 데이터베이스 관리 시스템(Database Management System, 이하 DBMS)을 효율적으로 사용하기 위해 데이터베이스에 저장된 정보를 요약한 것이다. 즉 일련의 데이터를 정의하고 설명해 주는 메타데이터(metadata)를 유지하는 것을 의미한다.

데이터 사전은 데이터 정보를 분류하고 처리하기 위한 시스템과 절차로서 데이터를 이해하는 과정에서 발생하는 오류, 또는 데이터 해석상의 어려움을 제거하기 위해 사용된다.

데이터 사전은 테이블과 뷰로 정의되며, 사용자 유형별로 접근 권한이 다르다.

사용자 유형	설명
DBA	직접 접근이 가능하며, 데이터 사전을 직접 갱신할 수 있다.
일반 사용자	뷰를 통해 접근이 가능하며, 데이터 사전을 읽기만 할 수 있다.

데이터 사전에 저장되는 정보는 다음과 같다.

- 데이터베이스 스키마 객체 정보
테이블, 인덱스, 뷰 등이 있다.
- 사용자 정보
이름, 권한 등이 있다.
- 테이블과 컬럼 속성 정보
사용 가능한 디스크 용량, 컬럼 타입, 기본값 등이 있다.
- 테이블의 무결성 제약조건 정보
기본 키, 외래 키, NULL 값 허용 여부 등이 있다.
- 디스크 구조 정보
테이블 스페이스, 데이터 파일, 세그먼트, 사용자 및 테이블 등이 있다.
- 히스토그램(Histogram) 정보
주로 많이 사용되는 컬럼 값, 컬럼 값의 분포 등이 있다.

2.2. 데이터 사전의 구조

Tibero 의 데이터 사전은 크게 다음과 같이 구성된다.

- 기반 테이블(Base Table)
- 정적/동적 뷰
 - 정적 뷰(Static View)
 - 동적 뷰(Dynamic View)

데이터 사전을 위와 같이 분리하여 구성하는 이유는 데이터베이스 시스템의 일관성을 유지하고 사용자에게 편의성을 제공하며 데이터베이스의 저장 공간을 절약하기 위함이다. 만약 일반 사용자의 부주의로 기반 테이블의 내용을 직접 갱신하였다면, 데이터베이스 시스템에 심각한 에러를 발생시킬 수 있다.

2.2.1. 기반 테이블

기반 테이블은 중복된 데이터를 제거하는 정규화 과정을 거친 테이블이다. 기반 테이블 안에 일부 데이터는 플래그(Flag)로 나타나며, 암호화 되어 있다. 또한, 기반 테이블의 자체 데이터도 기반 테이블에 저장된다.

기반 테이블은 정규화를 거친 데이터가 저장되므로 중복된 데이터가 거의 존재하지 않는다. 또한, 기반 테이블은 데이터 사전을 저장하는 데 필요한 디스크 공간을 줄이며 중복된 데이터가 일관성 없이 갱신될 가능성을 사전에 예방하는 역할을 수행한다.

기반 테이블의 내용을 직접 참조할 수 있는 사용자는 오직 **DBA**만이 할 수 있다. 일반 사용자는 데이터 사전을 참조하는 기반 테이블의 내용을 참조하려면 정적/동적 뷰를 이용해야 한다. 왜냐하면, 모든 데이터 사전을 참조하는 기반 테이블의 소유자는 **SYS** 사용자이기 때문이다.

참고

SYS 사용자는 Tibero에서 자체적으로 생성한 사용자이며, **DBA**를 포함한 모든 사용자의 상위에 존재하는 사용자이다. 또한, 이 사용자는 Tibero 자체를 관리하는 역할을 수행한다. **DBA**나 기타 어떠한 권한을 가진 사용자도 이 사용자를 대신할 수 없다.

또한, 기반 테이블을 직접 갱신할 수 있는 사용자는 **DBA**뿐이며, 일반 사용자는 데이터 정의어(Data Definition Language, 이하 DDL) 문장을 통해서만 가능하다. DDL 문장을 실행하려면 반드시 대상 객체에 대한 DDL 문장의 실행 권한이 있어야 한다. 예를 들어 EMP 테이블의 외래 키 컬럼을 변경하려면 현재 사용자가 EMP 테이블에 대한 갱신 권한이 있어야 한다는 의미이다.

그리고 기반 테이블에 대한 관리를 데이터 사전이 함으로써 일반 사용자는 기반 테이블의 정의를 몰라도 간단한 DDL 문장으로 데이터 사전 작업을 수행할 수 있다.

예를 들어 일반 사용자가 기반 테이블을 생성 하려면 다음과 같은 순으로 정의해야 한다.

1. 객체 정의

기본 테이블인 **_DD_OBJ** 테이블에 스키마 객체를 등록한다.

2. 테이블 정의

기본 테이블인 **_DD_TBL** 테이블에 하나의 로우를 삽입한다.

3. 컬럼 정의

기본 테이블인 **_DD_COL** 테이블에 컬럼 개수에 따라 로우를 삽입한다. 만약 인덱스를 선언하였거나 제약조건을 정의한 경우, 기본 테이블에도 개수에 따라 로우를 삽입해야 한다.

2.2.2. 정적/동적 뷰

정적 뷰는 하나 이상의 기본 테이블과 다른 정적/동적 뷰를 기반으로 정의된 뷰이다. 따라서 정적 뷰는 기본 테이블과 정적/동적 뷰 간의 조인을 이용하여 생성된다.

동적 뷰는 Tibero 에서 동적으로 변경되는 데이터를 테이블 형태로 보여주는 뷰이다. 이처럼 동적으로 변경되는 데이터의 예를 들면, 현재 서버 프로세스의 상태, 트랜잭션의 수행 상태, 사용자 권한 등이다. 이러한 데이터는 실제로 디스크에 저장되지 않으며, 사용자가 동적 뷰를 사용할 때마다 실시간으로 테이블 형태로 생성된다.

2.3. 데이터 사전의 참조

Tibero에서 데이터 사전이 참조되는 경우는 다음과 같이 크게 세 가지로 나눌 수 있다.

- 일반 사용자에게 의한 참조
- SQL 파서(Parser), 질의 최적화기에 의한 참조
- Tibero에 의한 참조

2.3.1. 일반 사용자에게 의한 참조

일반 사용자는 정적/동적 뷰를 이용하여 데이터 사전을 참조한다. 데이터 사전을 참조하는 방법은 정적/동적 뷰를 SQL 문장에 포함하여 실행하는 것이다.

다음은 현재 사용자가 정의한 모든 테이블의 이름을 출력하는 예이다. 본 예에서는 모든 테이블에 대한 정보를 포함하는 정적 뷰가 **USER_TABLES** 이므로, 다음과 같은 SQL 문장을 실행한다.

```
SELECT TABLE_NAME FROM USER_TABLES;
```

일반 사용자는 위와 같이 정적 뷰를 이용하여 데이터 사전을 참조할 수 있다.

스키마 객체와 관련된 정적 뷰는 사용자가 접근할 수 있는 범위에 따라 크게 세 가지로 나뉘며, 다음과 같이 접두어로 구분된다.

접두어	설명
USER_	현재 사용자가 정의한 객체에 대한 뷰이다.
ALL_	현재 사용자가 접근할 수 있는 객체에 대한 뷰이다.
DBA_	모든 객체에 대한 뷰이다.

참고

정적 뷰는 위 표와 같이 접두어만 다르며, 모두 같은 컬럼으로 구성되어 있다. 단, **USER_** 뷰는 컬럼 소유자(OWNER)를 포함하지 않는다.

2.3.2. SQL 파서, 질의 최적화기에 의한 참조

SQL 파서

Tibero는 사용자로부터 입력된 SQL 문장을 해석할 때 데이터 사전을 이용한다. 이러한 과정을 의미 분석 (Semantic Analysis) 과정이라고 부른다.

의미 분석 과정은 SQL 문장에 포함된 스키마 객체가 존재하는지, 현재 사용자가 접근할 수 있는지, 특정 테이블에 포함된 컬럼은 어떤 것이 있는지, 컬럼의 타입에 따라 맞게 연산을 실행하는지 등의 검사를 수행한다.

다음의 SQL 문장으로 의미 분석 과정을 설명한다.

```
SELECT C11
  FROM T1, T2
 WHERE C11 = C21 AND C22 LIKE '20%';
```

- ① **SELECT** 문장에 포함된 스키마 객체 즉 T1, T2가 존재하는지, 그리고 이 객체에 현재 사용자가 접근할 수 있는지 검사한다.
- ② 접근에 문제가 없다면, C11, C21, C22 컬럼이 T1, T2 테이블에 각각 정의되어 있는지, 아니면 동시에 T1, T2 테이블에 정의되어 있는지(또는 모호성이 존재하는지.)를 검사한다.
- ③ C11과 C12 컬럼이 비교 연산이 가능한지, C22 컬럼이 **LIKE** 연산자를 수행할 수 있는 문자열 타입인지 검사한다.

위의 SQL 문장은 의미 분석 과정을 거친 후 각 컬럼이 포함된 테이블을 명시적으로 표시하고 다음과 같이 변환된다.

```
SELECT T1.C11
  FROM T1, T2
 WHERE T1.C11 = T2.C21 AND T2.C22 LIKE '20%';
```

질의 최적화기

Tibero는 질의 최적화기를 이용하여 SQL 문장에 대한 효율적인 실행계획(Execution Plan)을 생성하기 위해 데이터 사전에 저장된 통계 정보를 참조한다.

이러한 통계 정보는 각 스키마 객체의 기반 테이블에 저장되어 있으며, 히스토그램을 저장하는 기반 테이블에도 저장되어 있다.

예를 들어 테이블 정의를 포함하는 기반 테이블에는 테이블 안에 로우의 개수, 디스크 블록의 개수, 하나의 디스크 블록에 포함된 로우의 평균 개수 등이다. 히스토그램 테이블에는 특정 컬럼에 대하여 컬럼 값의 분포, 자주 사용되는 컬럼 값 등을 저장하고 있다.

또한, 질의 최적화기는 인덱스에 대한 정보도 참조한다. 예를 들어 테이블에 어떤 컬럼이 인덱스가 생성되어 있는지, 인덱스의 단말 노드(Terminal Node)에 저장된 레코드의 평균 개수는 몇 개인지 등을 참조한다.

다음은 질의 최적화기가 어떤 데이터 사전 정보를 이용하는지 확인할 수 있는 예이다.

```
SELECT *  
FROM T1, T2  
WHERE T1.C1 = T2.C2;
```

위 예에서 보듯이 SELECT 문장은 WHERE 절의 조건에 따라 조인 연산을 수행해야 한다. 일반적으로 조인 연산은 시스템의 메모리와 CPU 시간이 많이 요구되는 연산이다. 따라서, 될 수 있으면 적은 메모리를 사용하여 조인 연산을 실행하는 방법을 찾아야 한다.

테이블 T1과 T2에 대하여 중첩 루프 조인(Nested-Loop Join)을 수행하는 방법은 다음과 같다.

- T1을 외부 루프(Outer Loop)로 한다.
- T2를 내부 루프로 한다.

일반적으로, 포함된 로우의 개수가 적은 테이블을 외부 루프 테이블로 하는 것이 연산 비용이 적다. 따라서, 질의 최적화기는 데이터 사전의 내용을 참조하여 테이블 T1과 T2 중에서 포함된 로우의 개수가 적은 것을 외부 루프로 하여 SQL 질의를 수행하도록 한다.

질의 최적화기가 인덱스에 대한 데이터 사전의 내용을 참조한 결과 T1.C1과 T2.C2 컬럼 모두에 대하여 인덱스가 생성되었다면, 중첩 루프 조인이 아니라, 좀 더 적은 메모리 양과 CPU 작업이 필요한 정렬 병합 조인(Sort-Merge Join) 연산을 수행한다.

2.3.3. Tibero에 의한 참조

일반 사용자로부터 주어진 SQL 문장에 대한 의미 분석 및 질의 최적화 과정을 수행할 뿐만 아니라, SQL 문장을 실행할 때에도 데이터 사전의 내용을 참조한다.

의미 분석 및 질의 최적화 과정에서 검사하는 내용은 테이블에 저장된 실제 데이터와 관계없이 나타나는 결과이다. 그러나 SQL 문장을 실행할 때는 실제 데이터에 따라 추가로 수행해야 할 결과가 나타날 수 있다.

예를 들어 테이블 T1에 테이블 T2의 외래 키가 정의되어 있는 경우 테이블 T2에서 하나의 로우를 삭제하려고 할 때 Tibero는 데이터 사전을 참조하여 테이블 T2의 컬럼에 대한 외래 키가 정의되어 있는지 확인한다.

테이블 T1의 로우 중 T2 컬럼 값을 참조하는 로우가 존재한다면, 다음과 같은 추가 작업을 수행해 주어야 한다. 예를 들어 테이블 T2의 로우를 삭제하지 못하도록 한다든지 또는 테이블 T2의 로우를 참조하는 테이블 T1의 모든 로우를 함께 삭제하는 등의 작업을 추가로 한다. 실제 어떠한 작업을 수행할지는 데이터 사전의 내용을 참조해야 한다.

2.4. 데이터 사전의 갱신

데이터 사전의 갱신은 기반 테이블의 갱신을 뜻한다. 정적 뷰를 통한 갱신은 일반 사용자나 DBA도 허용되지 않으며, 동적 뷰에 대한 갱신은 자동으로 이루어지거나 다른 인터페이스를 이용해야 갱신할 수 있다. 또한, 일반 사용자는 기반 테이블에 대한 갱신을 직접 수행할 수 없다.

일반 사용자나 SYS 권한을 가진 사용자는 DDL 문장을 이용하여 안전하고 일관성 있게 데이터 사전의 내용을 갱신할 수 있다. DDL 문장을 실행하면 데이터 사전 모듈 내에서 현재 실행되고 있는 다른 트랜잭션까지 고려하여 데이터 사전의 내용을 일관성 있게 갱신해 준다.

그리고 데이터 사전의 내용과 함께 데이터베이스의 내용도 함께 갱신해야 할 경우에도 데이터 사전의 모듈 내에서 모두 수행할 수 있다.

주의

SYS 권한을 가진 사용자나 DBA만 직접 기반 테이블을 참조하고 갱신할 수 있다. 될 수 있으면 이러한 작업을 하지 않기를 권장한다.

2.4.1. DDL 문장

DDL은 데이터베이스에서 데이터와 데이터 간의 관계를 정의한 SQL 문장으로 데이터베이스 구조를 설정하는 구조화된 조회 언어이다. DDL은 데이터베이스의 스키마 객체를 생성(CREATE), 갱신(ALTER), 제거(DROP) 하거나 권한의 부여나 회수(GRANT, REVOKE), 주석(COMMENT), 자료의 버림(TRUNCATE) 등을 수행하는 문장 등을 포함한다.

각 문장은 CREATE, ALTER, DROP, TRUNCATE, GRANT, REVOKE, COMMENT 등으로 시작한다. 이 밖에도 많은 종류의 DDL이 존재한다.

Tibero에서 DDL 문장을 이용하여 CREATE, ALTER, DROP할 수 있는 객체는 다음과 같다.

- 데이터베이스
- 테이블
- 인덱스, 뷰, 동의어

- 사용자
- 무결성 제약조건
- 역할(Role)

위 객체 중 테이블은 생성, 갱신, 삭제는 CREATE TABLE, ALTER TABLE, DROP TABLE 문을 이용하여 수행하며, 일부 객체는 생성, 갱신, 삭제 중의 일부만 가능한 경우도 있다. 예를 들어 동의어는 CREATE SYNONYM, DROP SYNONYM 문만이 존재하고, ALTER SYNONYM 문은 존재하지 않는 경우이다.

그리고 아래와 같이 객체의 생성, 갱신, 삭제와 관련 없는 특별한 목적의 DDL 문장도 존재한다.

DDL 문장	설명
GRANT	사용자에게 사용 권한을 부여하는 문장이다.
REVOKE	사용자에게 사용 권한을 회수하는 문장이다.
SET ROLE	사용자의 권한을 활성화 또는 비활성화하는 문장이다.

이와 같은 DDL 문장에 의해 갱신된 데이터 사전의 내용은 기반 테이블에 저장된다. 정적 뷰를 통해 확인할 수 있으며, 일부 내용은 동적 뷰를 통해서만 확인할 수 있다.

참고

Tibero에서 지원하는 DDL 문장에 대한 내용은 "Tibero SQL 참조 안내서"를 참고한다.

제3장 Static View

3.1. Overview

The **static view** comprises of one or more base tables and static and dynamic views. Thus, the static view is generated from a join of static and dynamic views.

Tibero uses [DICTIONARY](#) to display the list of available static views. DBA or general users can retrieve data from the static view by executing a SELECT statement using the tbSQL tool.

3.2. List of Static Views

This section provides the list of static views of Tibero in alphabetical order and describes the columns which corresponds to each static view in the table.

참고

The static view of Tibero is comprised of a set of views named with a different prefix but having the same column. In this guide, the same column used for several views will be discussed only once in the list, in the first explained view.

The following is the list of summarized static views.

Static View	Description
ALL_ARGUMENTS	Displays all parameters of the procedure or function that the current user can call.
ALL_CATALOG	Displays all tables, views, synonyms, and sequences that the current user can access.
ALL_COLL_TYPES	Displays all the collection types that the current user can access.
ALL_COL_COMMENTS	Displays comments on columns of the tables or views that the current user can access.
ALL_COL_PRIVS	Displays columns for which the current user or public user is the object owner or grantor (user who granted the privilege).
ALL_COL_PRIVS_MADE	Displays columns for which the current user is the object owner or grantor.
ALL_COL_PRIVS_RECD	Displays columns for which the current user or public user is the grantee.

Static View	Description
ALL_CONSTRAINTS	Displays constraints defined in the table that the current user can access.
ALL_CONS_COLUMNS	Displays columns that the current user can access and that are specified in integrity constraint definitions.
ALL_CONS_COLUMNS_INFO	Displays columns with constraint information that the current user can access and that are specified in integrity constraint definitions.
ALL_DB_LINKS	Displays information for the database links that the current user can use.
ALL_DEPENDENCIES	Displays dependencies between procedures, functions, packages, package bodies, triggers, and views that the current user can access.
ALL_DIRECTORIES	Displays all directories that the current user can access.
ALL_ENCRYPTED_COLUMNS	Displays information of all encrypted columns that the current user can access.
ALL_ERRORS	Displays the recent errors on every accessible view, procedure, function, package, package body, trigger, library, and java object.
ALL_EXTERNAL_LOCATIONS	Displays all external table locations that the current user can access.
ALL_EXTERNAL_TABLES	Displays all external tables that the current user can access.
ALL_IDX_AND_LOB_COLUMNS_INFO	Displays index columns (including LOB) with index information of all tables that the current user can access
ALL_IDX_COLUMNS	Displays index columns of all tables that the current user can access.
ALL_IDX_COLUMNS_INFO	Displays index columns with index information of all tables that the current user can access.
ALL_IDX_EXPRESSIONS	Displays expressions on function-based index columns of all tables that the current user can access.
ALL_IDX_SUBPARTITIONS	Displays subpartitions of the index that the current user can access.
ALL_INDEXES	Displays indexes of all tables that the current user can access.
ALL_IND_COLUMNS	Synonym for ALL_IDX_COLUMNS.
ALL_IND_EXPRESSIONS	Synonym for ALL_IDX_EXPRESSIONS.
ALL_IND_SUBPARTITIONS	Synonym for ALL_IDX_SUBPARTITIONS.
ALL_JAVA_ARGUMENTS	Displays all parameters that the current user can access.
ALL_JAVA_CLASSES	Displays all classes that the current user can access.
ALL_JAVA_FIELDS	Displays all fields that the current user can access.
ALL_JAVA_METHODS	Displays all methods that the current user can access.
ALL_JOBS	Displays all jobs that the current user can access.
ALL_JOBS_WITH_NAME	Displays all jobs with job name that the current user can access.

Static View	Description
ALL_LIBRARIES	Displays all libraries that the current user can access.
ALL_LOBS	Displays large objects (LOB) which belong to all tables that the current user can access.
ALL_LOB_PARTITIONS	Displays all LOB partitions that the current user can access.
ALL_LOB_SUBPARTITIONS	Displays LOB subpartitions that the current user can access.
ALL_LOG_GROUPS	Displays the log group definitions on the tables accessible to the current user.
ALL_LOG_GROUP_COLUMNS	Displays columns that are accessible to the current user and that are specified in log groups.
ALL_METHOD_PARAMS	Displays all the method parameters of the type that the current user can access.
ALL_METHOD_RESULTS	Displays the result of the method of this type that the current user can access.
ALL_MVIEWS	Displays all materialized views that the current user can access.
ALL_MVIEW_COMMENTS	Displays comments on the materialized views that the current user can access.
ALL_MVIEW_DETAIL_RELATIONS	describes all such detail relations defined for all materialized views in the database.
ALL_MVIEW_LOGS	Displays all materialized view logs that the current user can access.
ALL_MVIEW_REFRESH_TIMES	Describes refresh times of all materialized views accessible to the current user.
ALL_OBJECTS	Displays all objects that the current user can access.
ALL_PACKAGE_COLL_TYPES	Displays collection types of the package that the current user can access,
ALL_PACKAGE_MEMBER_TYPES	Displays attributes of the package type that the current user can access.
ALL_PACKAGE_TYPES	Displays member types of the package that the current user can access
ALL_PART_INDEXES	Displays partition information for the partitioned indexes that the current user can access.
ALL_PART_KEY_COLUMNS	Displays partitioning key columns of the partitioned tables or indexes that the current user can access.
ALL_PART_LOBS	Displays LOBs which belong to all partitioned tables that the current user can access.
ALL_PART_TABLES	Displays partitioning information of all partitioned tables that the current user can access.

Static View	Description
ALL_PROCEDURES	Displays all procedures defined in all procedures and tables that the current user owns.
ALL_QUEUES	Describes all queues on which the current user has enqueue or dequeue privileges.
ALL_QUEUE_SUBSCRIBERS	Shows the list of subscribers that the current user has privilege to dequeue from.
ALL_QUEUE_TABLES	Describes the queues in the queue tables accessible to the current user.
ALL_RECYCLEBIN	Displays information of all temporarily deleted objects that the current user can access.
ALL_SCHEDULER_CHAINS	Displays all scheduler chains that the current user can access.
ALL_SCHEDULER_JOBS	Displays all scheduler jobs that the current user can access.
ALL_SCHEDULER_JOB_LOG	Displays all scheduler job log that the current user can access.
ALL_SCHEDULER_JOB_RUN_DETAILS	Displays all scheduler job run details that the current user can access.
ALL_SCHEDULER_PROGRAMS	Displays all scheduler programs that the current user can access.
ALL_SCHEDULER_RULES	Displays all scheduler rules that the current user can access.
ALL_SCHEDULER_RULE_CTX	Displays all scheduler rule ctx that the current user can access.
ALL_SCHEDULER_RUNNING_JOBS	Displays all scheduler running jobs that the current user can access.
ALL_SCHEDULER_SCHEDULES	Displays all scheduler schedules that the current user can access.
ALL_SCHEDULER_STEPS	Displays all scheduler steps that the current user can access.
ALL_SCHEDULER_STEP_CTX	Displays all scheduler step context the current user can access.
ALL_SEGMENTS	Displays all segments that the current user can access.
ALL_SEQUENCES	Displays all sequences that the current user can access.
ALL_SOURCE	Displays source texts of the stored objects that the current user can access such as procedures, functions, package bodies, or triggers.
ALL_SUBPART_KEY_COLUMNS	Displays subpartitioning key columns of the partitioned tables or indexes that the current user can access.
ALL_SYNONYMS	Displays all synonyms that the current user can access.
ALL_TABLES	Displays all tables that the current user can access.
ALL_TAB_COLS	Synonym for ALL_TBL_COLS.
ALL_TAB_COLUMNS	Synonym for ALL_TBL_COLUMNS.
ALL_TAB_COL_STATISTICS	Synonym for ALL_TBL_COL_STATISTICS.

Static View	Description
ALL_TAB_COMMENTS	Displays comments on the tables that the current user can access.
ALL_TAB_HISTOGRAMS	Synonym for ALL_TBL_HISTOGRAMS.
ALL_TAB_IDENTITY_COLS	Displays identity columns of all tables that the current user can access.
ALL_TAB_PARTITIONS	Synonym for ALL_TBL_PARTITIONS.
ALL_TAB_PRIVS	Synonym for ALL_TBL_PRIVS.
ALL_TAB_PRIVS_MADE	Synonym for ALL_TBL_PRIVS_MADE.
ALL_TAB_PRIVS_RECD	Synonym for ALL_TBL_PRIVS_RECD.
ALL_TAB_SUBPARTITIONS	Synonym for ALL_TBL_SUBPARTITIONS.
ALL_TBL_COLS	Displays column information of all tables and views that the current user can access.
ALL_TBL_COLUMNS	Displays column information of all tables and views that the current user can access.
ALL_TBL_COLUMNS_WITH_DNO	Displays column information of all tables and views, which the current user can access, with data type number of the column.
ALL_TBL_COL_STATISTICS	Displays statistics and a histogram of columns by extracting them from ALL_TBL_COLUMNS.
ALL_TBL_COMMENTS	Synonym for ALL_TAB_COMMENTS.
ALL_TBL_HISTOGRAMS	Displays histogram information of tables that the current user can access.
ALL_TBL_PARTITIONS	Displays partition information of all tables that the current user can access.
ALL_TBL_PRIVS	Displays tables for which the current user or public user is granted object privileges.
ALL_TBL_PRIVS_MADE	Displays object privileges granted on tables for which the current user or public user is the object owner or grantor.
ALL_TBL_PRIVS_RECD	Displays object privileges granted on tables for which the current user or public user is the object grantee.
ALL_TBL_SUBPARTITIONS	Displays subpartitions of all tables that the current user can access.
ALL_TRIGGERS	Displays all triggers that the current user can access.
ALL_TRIGGER_COLS	Displays column information of all triggers that the current user can access and all triggers on tables that the current user can access.
ALL_TYPES	Displays all types that the current user can access.
ALL_TYPE_ATTRS	Displays all the attributes that the current user can access.
ALL_TYPE_METHODS	Displays all the methods of this type that the current user can access.

Static View	Description
ALL_UPDATABLE_COLUMNS	Displays all join view columns that the current user can update.
ALL_USERS	Displays all users that the current user can view.
ALL_VIEWS	Displays all views that the current user can access.
ALL_VIEWS_INTERNAL	Displays all views that the current user can access. (including views that can be accessed by the roles)
CTX_PREFERENCES	Displays preferences created by Tiberio users, as well as all the system-defined preferences.
CTX_PREFERENCE_VALUES	Displays the values assigned to all the preferences in the Text data dictionary.
DATABASE_PROPERTIES	Displays database properties.
DBA_2PC_NEIGHBORS	Displays connection information for pending transactions.
DBA_2PC_PENDING	Displays pending transaction information.
DBA_AUDIT_POLICIES	Displays all fine-grained auditing policies in the database.
DBA_AUDIT_TRAIL	Displays audit trails within the database.
DBA_CATALOG	Displays all tables, views, synonyms, and sequences in the database.
DBA_COLL_TYPES	Displays all the collection types.
DBA_COL_COMMENTS	Displays comments on all columns in the database.
DBA_COL_PRIVS	Displays object privileges of all columns of the database.
DBA_CONSTRAINTS	Displays integrity constraints defined in the database table.
DBA_CONS_COLUMNS	Displays the columns for which the database integrity constraint is specified.
DBA_DATAFILES	Synonym for DBA_DATA_FILES .
DBA_DATA_FILES	Displays data file information.
DBA_DB_LINKS	Displays information for all database links.
DBA_DDL_LOCKS	displays information about DDL locks.
DBA_DEPENDENCIES	Displays dependencies of all objects.
DBA_DIRECTORIES	Displays all directories in the database.
DBA_DML_LOCKS	displays information about DML locks.
DBA_ENCRYPTED_COLUMNS	Displays information of all encrypted columns in the database. The columns are the same as those in ALL_ENCRYPTED_COLUMNS .
DBA_ERRORS	Displays the recent errors on every view, procedure, function, package, package body, trigger, library, and java object in the database. The columns are the same as those in ALL_ERRORS .

Static View	Description
DBA_EXTENTS	Displays information of the extents contained in the segments of all the tablespaces in the database.
DBA_EXTERNAL_LOCATIONS	Displays all external table locations in the database.
DBA_EXTERNAL_TABLES	Displays all external tables in the database.
DBA_FGA_AUDIT_TRAIL	Displays TODO. TODO
DBA_FREE_SPACE	Displays information of the extents that all tablespaces can use.
DBA_HIST_ACTIVE_SESS_HISTORY	Displays history information on active sessions.
DBA_HIST_FILESTAT	Displays historical statistics of data file and temp file I/O. This view includes snapshots of V\$ALL_FILESTAT.
DBA_HIST_LATCH	Displays the historical information on spinlocks. This view includes snapshots of V\$LATCH.
DBA_HIST_LIBRARYCACHE	Displays information of PP cache and DD cache. This view includes snapshots of V\$LIBRARYCACHE.
DBA_HIST_OSSTAT	Displays historical information on various OS statistics. This view includes snapshots of V\$OSSTAT2.
DBA_HIST_PGASTAT	Displays the historical statistics of PGA. This view includes the snapshot of V\$PGASTAT.
DBA_HIST_PROCESS_MEM_SUMMARY	Displays historical information on PGA memory usage. This view gets information from V\$PROCESS.
DBA_HIST_SEG_STAT	Displays historical information of segment-level statistics. This view includes snapshots of V\$SEGMENT_STATISTICS.
DBA_HIST_SGASTAT	Displays the historical information on the shared pool for a database. This view includes snapshots of V\$SGASTAT.
DBA_HIST_SNAPSHOT	Displays information about TPR snapshots.
DBA_HIST_SQLBIND	Displays DBA_HIST_SQLBIND displays historical information on bind variables used by SQL cursors. This view contains snapshots of V\$SQL_BIND_CAPTURE.
DBA_HIST_SQLSTAT	Displays historical information for SQL statistics. This view displays the priority of items of specific criteria.
DBA_HIST_SQLTEXT	Displays historical information about texts of SQL statements.
DBA_HIST_SQL_PLAN	Displays historical information about SQL execution plans. This view includes snapshots of V\$SQL_PLAN.
DBA_HIST_SQL_WORKAREA_HSTGRM	Displays historical information about work areas used by SQL cursors. This view includes snapshots of V\$SQL_WORKAREA_HISTOGRAM.

Static View	Description
DBA_HIST_SYSMETRIC_SUMMARY	Displays a history of statistical summary of all metric values in the System Metrics Long Duration group.
DBA_HIST_SYSTEM_EVENT	Displays historical information of events performing in the system. This view includes snapshots of V\$SYSTEM_EVENT.
DBA_HIST_UNDOSTAT	Displays historical statistics of undo storage space. This view includes snapshots of V\$UNDOSTAT.
DBA_HIST_WAITSTAT	Displays the statistical history of block wait events for each block type and class. This view includes snapshots of V\$WAITSTAT.
DBA_IDX_COLUMNS	Displays index columns of all tables in the database.
DBA_IDX_EXPRESSIONS	Displays expressions on the index columns of all tables in the database.
DBA_IDX_SUBPARTITIONS	Displays subpartitions of all indexes in the database.
DBA_INDEXES	Displays indexes of all tables in the database.
DBA_IND_COLUMNS	Synonym for DBA_IDX_COLUMNS.
DBA_IND_EXPRESSIONS	Synonym for DBA_IDX_EXPRESSIONS.
DBA_IND_SUBPARTITIONS	Synonym for DBA_IDX_SUBPARTITIONS.
DBA_JAVA_ARGUMENTS	Displays all parameters in the database.
DBA_JAVA_CLASSES	Displays all classes in the database.
DBA_JAVA_FIELDS	Displays all fields in the database.
DBA_JAVA_METHODS	Displays all methods in the database.
DBA_JOBS	Displays all jobs in the database.
DBA_JOBS_WITH_NAME	Displays all jobs with job name in the database.
DBA_LIBRARIES	Displays all libraries in the database.
DBA_LOBS	Displays LOBs which belong to all tables in the database.
DBA_LOB_PARTITIONS	Displays all LOB partitions in the database.
DBA_LOB_SUBPARTITIONS	Displays all LOB subpartitions in the database.
DBA_LOG_GROUPS	Displays the log group definitions on all tables in the database.
DBA_LOG_GROUP_COLUMNS	Displays all columns in the database that are specified in log groups.
DBA_METHOD_PARAMS	Displays the method parameters of this type.
DBA_METHOD_RESULTS	Displays the result of the method of this type.
DBA_MVIEWS	Displays all materialized views in the database. The columns are the same as those in ALL_MVIEWS.
DBA_MVIEW_COMMENTS	Displays comments on all materialized views in the database. The columns are the same as those in ALL_MVIEW_COMMENTS.

Static View	Description
DBA_MVIEW_DETAIL_RELATIONS	Describes the named detail relations that are either specified in the FROM list of the subquery that defines all materialized views in the database, or that are indirectly referenced through views in that FROM list. Inline views in the materialized view definition are not represented in this view or the related views.
DBA_MVIEW_LOGS	Displays all materialized view logs in the database. The columns are the same as those in ALL_MVIEW_LOGS.
DBA_MVIEW_REFRESH_TIMES	Describes refresh times of all materialized views in the database.
DBA_OBJECTS	Displays all objects in the database.
DBA_OBJ_AUDIT_OPTS	Displays objects being audited in the database.
DBA_PACKAGE_COLL_TYPES	Displays types of the package.
DBA_PACKAGE_MEMBER_TYPES	Displays types of the package.
DBA_PACKAGE_TYPES	Displays types of the package.
DBA_PART_INDEXES	Displays partitioning information for the partitioned indexes in the database.
DBA_PART_KEY_COLUMNS	Displays partitioning key columns for all partitioned tables or indexes in the database.
DBA_PART_LOBS	Displays LOBs which belong to the partitioned tables in the database.
DBA_PART_TABLES	Displays partitioning information of the partitioned tables in the database.
DBA_PRIV_AUDIT_OPTS	Displays users being audited in the database.
DBA_PROCEDURES	Displays all procedures in the database.
DBA_PROFILES	Describes all profiles in the database.
DBA_QUEUES	Describes all queues in the database.
DBA_QUEUE_SUBSCRIBERS	Shows the list of subscribers on all queues in the database.
DBA_QUEUE_TABLES	Describes the queues in all queue tables in the database.
DBA_RECYCLEBIN	Displays information of all temporarily deleted objects in the database. The columns are the same as those in ALL_RECYCLEBIN.
DBA_REDEFINITION_OBJECTS	Displays all objects in database which are being redefined online.
DBA_ROLES	Displays all roles in the database.
DBA_ROLE_PRIVS	Displays roles granted to the users in the database.
DBA_ROLLBACK_SEGS	Synonym for DBA_UNDO_SGMTS.
DBA_SCHEDULER_CHAINS	Displays all scheduler chains in the database.

Static View	Description
DBA_SCHEDULER_JOBS	Displays all scheduler jobs in the database.
Static View	Description
DBA_SCHEDULER_JOB_LOG	Displays all scheduler job log in the database.
DBA_SCHEDULER_JOB_RUN_DETAILS	Displays all scheduler job run details in the database.
DBA_SCHEDULER_PROGRAMS	Displays all scheduler programs in the database.
DBA_SCHEDULER_RULES	Displays all scheduler rules in the database.
DBA_SCHEDULER_RULE_CTX	Displays all scheduler rule ctx in the database.
DBA_SCHEDULER_RUNNING_JOBS	Displays all scheduler running jobs in the database.
DBA_SCHEDULER_SCHEDULES	Displays all scheduler schedules in the database.
DBA_SCHEDULER_STEPS	Displays all scheduler steps in the database.
DBA_SCHEDULER_STEP_CTX	Displays all scheduler step context in the database.
DBA_SEGMENTS	Displays all segments in the database.
DBA_SEQUENCES	Displays all sequences in the database.
DBA_SOURCE	Displays source texts of the stored objects in the database such as procedures, functions, package bodies, or triggers.
DBA_SQL_PLAN_BASELINES	!!! No documentation yet !!!
DBA_SQL_PROFILES	displays information about SQL profiles currently created for specific SQL statements.
DBA_SUBPART_KEY_COLUMNS	Displays subpartitioning key columns of the partitioned tables or in dexes in the database.
DBA_SYNONYMS	Displays synonyms in the database.
DBA_SYS_PRIVS	Displays system privileges granted to users and roles in the database.
DBA_TABLES	Displays all tables in the database.
DBA_TABLESPACES	Displays all tablespaces in the database.
DBA_TAB_COLS	Synonym for DBA_TBL_COLS.
DBA_TAB_COLUMNS	Synonym for DBA_TBL_COLUMNS.
DBA_TAB_COL_STATISTICS	Synonym for DBA_TBL_COL_STATISTICS.
DBA_TAB_COMMENTS	Displays comments on all tables and views in the database.
DBA_TAB_HISTOGRAMS	Synonym for DBA_TBL_HISTOGRAMS.

Static View	Description
DBA_TAB_IDENTITY_COLS	Displays identity columns of all tables.
DBA_TAB_PARTITIONS	Synonym for DBA_TBL_PARTITIONS.
DBA_TAB_PRIVS	Synonym for DBA_TBL_PRIVS.
DBA_TAB_SUBPARTITIONS	Synonym for DBA_TBL_SUBPARTITIONS.
DBA_TBL_COLS	Displays columns of all tables and views in the database.
DBA_TBL_COLUMNS	Displays columns of all tables and views in the database.
DBA_TBL_COL_STATISTICS	Displays statistics and a histogram of columns by extracting them from DBA_TBL_COLUMNS.
DBA_TBL_COMMENTS	Synonym for DBA_TAB_COMMENTS.
DBA_TBL_HISTOGRAMS	Displays histogram information on tables and views in the database.
DBA_TBL_PARTITIONS	Displays partition information of all tables in the database.
DBA_TBL_PRIVS	Displays object privileges granted on all tables in the database.
DBA_TBL_SUBPARTITIONS	Displays subpartitions of all tables in the database.
DBA_TEMPFILES	Synonym for DBA_TEMP_FILES.
DBA_TEMP_FILES	Displays information of the temporary data files.
DBA_TRIGGERS	Displays all triggers in the database.
DBA_TRIGGER_COLS	Displays column information of all triggers in the database. The columns are the same as those in ALL_TRIGGER_COLS.
DBA_TS_QUOTAS	Describe tablespace quotas for all user
DBA_TYPES	Displays all types.
DBA_TYPE_ATTRS	Displays all the attributes of this type.
DBA_TYPE_METHODS	Displays all the methods of this type.
DBA_UNDO_EXTENTS	Displays information about the extents in all undo segments.
DBA_UNDO_SGMTS	Displays undo segments in the database.
DBA_UPDATABLE_COLUMNS	Displays all join view columns that the DBA can update.
DBA_USERS	Displays all users in the database.
DBA_VIEWS	Displays all views in the database.
DBMSHXP_SQL_PROFILE_ATTR	displays outline hints that sql profile defines.
DICTIONARY	Displays comments on tables and views in the data dictionary.
NLS_DATABASE_PARAMETERS	Displays NLS parameters of the current database.
NLS_SESSION_PARAMETERS	Displays NLS parameters of the current user session.
PUBLICSYN	Displays all public synonyms in the database.

Static View	Description
ROLE_ROLE_PRIVS	Displays the roles granted to other roles which the current user can access.
ROLE_SYS_PRIVS	Displays system privileges granted to roles which the current user can access.
ROLE_TAB_PRIVS	Displays object privileges granted to roles which the current user can access.
SESSION_CONTEXT	Displays context attributes in the current session.
SESSION_PRIVS	Displays the system privileges granted to current session user.
SESSION_ROLES	Displays roles granted to the current session user.
SYS_OBJECTS	Displays IDs and types of all schema objects, and IDs of the segment header blocks in the database.
USER_ARGUMENTS	Displays all parameters of the procedure or function that the current user owns.
USER_AUDIT_TRAIL	Displays audit trails associated with the current user.
USER_CATALOG	Displays all tables, views, synonyms, and sequences that the current user owns.
USER_COLL_TYPES	Displays all the collection types that the current user owns.
USER_COL_COMMENTS	Displays comments on all columns in the tables or views that the current user owns.
USER_COL_PRIVS	Displays object privileges of the columns for which the current user is the object owner, grantor, or grantee.
USER_COL_PRIVS_MADE	Displays columns for which the current user is the grantor.
USER_COL_PRIVS_RECD	Displays columns for which the current user is the grantee.
USER_CONSTRAINTS	Displays constraints defined in the table that the current user owns.
USER_CONS_COLUMNS	Displays columns that are owned by the current user and that are specified in integrity constraint definitions.
USER_DB_LINKS	Displays information for the database links that the current user owns.
USER_DEPENDENCIES	Displays dependencies between procedures, functions, packages, package bodies, triggers, and views that the current user owns.
USER_ENCRYPTED_COLUMNS	Displays information of all encrypted columns that the current user owns. The columns are the same as those in ALL_ENCRYPTED_COLUMNS(except for OWNER)
USER_ERRORS	Displays the recent errors in every view, procedure, function, package, package body, trigger, library, and java object owned by current

Static View	Description
	user. The columns are the same as those in ALL_ERRORS.(except for OWNER)
USER_EXTENTS	Displays information of the extents contained in the segments that the current user owns.
USER_EXTERNAL_LOCATIONS	Displays all external table locations that the current user owns.
USER_EXTERNAL_TABLES	Displays all external tables that the current user owns.
USER_FREE_SPACE	Displays information of the extents available for the tablespaces that the current user can access.
USER_IDX_COLUMNS	Displays index columns of all tables that the current user owns.
USER_IDX_EXPRESSIONS	Displays expressions on function-based index columns of all tables that the current user owns.
USER_INDEXES	Displays indexes of all tables that the current user owns.
USER_IND_COLUMNS	Synonym for USER_IDX_COLUMNS.
USER_IND_EXPRESSIONS	Synonym for USER_IDX_EXPRESSIONS.
USER_JAVA_ARGUMENTS	Displays all parameters that the current user owns.
USER_JAVA_CLASSES	Displays all classes that the current user owns.
USER_JAVA_FIELDS	Displays all fields that the current user owns.
USER_JAVA_METHODS	Displays all methods that the current user owns.
USER_JOBS	Displays all jobs that the current user owns.
USER_JOBS_WITH_NAME	Displays all jobs with job name that the current user owns.
USER_LIBRARIES	Displays all libraries that the current user owns.
USER_LOBS	Displays large objects (LOB) which belong to all tables that the current user owns.
USER_LOB_PARTITIONS	Displays all LOB partitions which belong to all tables that the current user owns.
USER_LOB_SUBPARTITIONS	Displays all LOB subpartitions which belong to all tables that the current user owns.
USER_LOG_GROUPS	Displays the log group definitions on the tables owned by the current user.
USER_LOG_GROUP_COLUMNS	Displays columns that are owned by the current user and that are specified in log groups.
USER_METHOD_PARAMS	Displays the method parameters of the type that the current user owns.
USER_METHOD_RESULTS	Displays the result of the method of this type that the current user owns.

Static View	Description
USER_MVIEWS	Displays all materialized views that the current user owns. The columns are the same as those in ALL_MVIEWS.
USER_MVIEW_COMMENTS	Displays comments on all materialized views that the current user owns.
USER_MVIEW_LOGS	Displays all materialized view logs that the current user owns. The columns are the same as those in ALL_MVIEW_LOGS.
USER_MVIEW_REFRESH_TIMES	Describes refresh times of the materialized views owned by the current user.
USER_OBJECTS	Displays all objects that the current user owns.
USER_OBJ_AUDIT_OPTS	Displays the current user's own objects which are being audited.
USER_PACKAGE_COLL_TYPES	Displays types of the package that the current user owns.
USER_PACKAGE_MEMBER_TYPES	Displays types of the package that the current user owns.
USER_PACKAGE_TYPES	Displays types of the package that the current user owns.
USER_PART_INDEXES	Displays partitioning information for the partitioned indexes that the current user owns.
USER_PART_KEY_COLUMNS	Displays partitioning key columns for all partitioned tables or indexes that the current user owns.
USER_PART_LOBS	Displays LOBs which belong to the partitioned tables that the current user owns.
USER_PART_TABLES	Displays partitioning information of the partitioned tables that the current user owns.
USER_PROCEDURES	Displays all procedures that the current user owns.
USER_QUEUES	Describes the operational characteristics of every queue owned by the current user.
USER_QUEUE_SUBSCRIBERS	Shows the list of subscribers on queues that are under the current user's schema.
USER_QUEUE_TABLES	Describes the queues in the queue tables created in the current user's schema.
USER_RECYCLEBIN	Displays information of all temporarily deleted objects that the current user owns. The columns are the same as those in ALL_RECYCLEBIN.
USER_ROLE_PRIVS	Displays roles granted to the current user.
USER_SCHEDULER_CHAINS	Displays all scheduler chains that the current user owns.
USER_SCHEDULER_JOBS	Displays all scheduler jobs that the current user owns.

Static View	Description
USER_SCHEDULER_JOB_LOG	Displays all scheduler job log that the current user owns.
USER_SCHEDULER_JOB_RUN_DETAILS	Displays all scheduler job run details that the current user owns.
USER_SCHEDULER_PROGRAMS	Displays all scheduler programs that the current user owns.
USER_SCHEDULER_RULES	Displays all scheduler rules that the current user owns.
USER_SCHEDULER_RULE_CTX	Displays all scheduler rule ctx that the current user owns.
USER_SCHEDULER_RUNNING_JOBS	Displays all scheduler running jobs that the current user owns.
USER_SCHEDULER_SCHEDULES	Displays all scheduler schedules that the current user owns.
USER_SCHEDULER_STEPS	Displays all scheduler steps that the current user owns.
USER_SCHEDULER_STEP_CTX	Displays all scheduler step context the current user owns.
USER_SEGMENTS	Displays all segments which belong to the current user.
USER_SEQUENCES	Displays all sequences that the current user owns.
USER_SOURCE	Displays source texts of the stored objects in the database such as procedures, functions, package bodies, or triggers.
USER_SUBPART_KEY_COLUMNS	Displays subpartitioning key columns of the partitioned tables or indexes that the current user owns.
USER_SYNONYMS	Displays synonyms that the current user owns.
USER_SYS_PRIVS	Displays system privileges granted to the current user.
USER_TABLES	Displays all tables that the current user owns.
USER_TABLESPACES	Synonym for DBA_TABLESPACES.
USER_TAB_COLS	Synonym for USER_TBL_COLS.
USER_TAB_COLUMNS	Synonym for USER_TBL_COLUMNS.
USER_TAB_COL_STATISTICS	Synonym for USER_TBL_COL_STATISTICS.
USER_TAB_COMMENTS	Displays comments on all tables and views that the current user owns.
USER_TAB_HISTOGRAMS	Synonym for USER_TBL_HISTOGRAMS.
USER_TAB_IDENTITY_COLS	Displays identity columns of all tables that the current user owns.
USER_TAB_PARTITIONS	Synonym for USER_TBL_PARTITIONS.
USER_TAB_PRIVS	Synonym for USER_TBL_PRIVS.
USER_TAB_PRIVS_MADE	Synonym for USER_TBL_PRIVS_MADE.
USER_TAB_PRIVS_RECD	Synonym for USER_TBL_PRIVS_RECD.

Static View	Description
USER_TBL_COLS	Displays columns of all tables and views that the current user owns.
USER_TBL_COLUMNS	Displays columns of all tables and views that the current user owns.
USER_TBL_COL_STATISTICS	Displays statistics and a histogram of columns by extracting them from USER_TBL_COLUMNS.
USER_TBL_COMMENTS	Synonym for USER_TAB_COMMENTS.
USER_TBL_HISTOGRAMS	Displays histogram information of tables that the current user owns.
USER_TBL_PARTITIONS	Displays partition information of all tables that the current user owns.
USER_TBL_PRIVS	Displays object privileges granted on all tables for which the current user is the object owner, grantor, or grantee.
USER_TBL_PRIVS_MADE	Displays object privileges granted on tables for which the current user is the object owner.
USER_TBL_PRIVS_RECD	Displays object privileges granted on tables for which the current user is the object grantee.
USER_TRIGGERS	Displays all triggers that the current user owns.
USER_TRIGGER_COLS	Displays column information of all triggers that the current user owns and all triggers on tables that the current user owns. The columns are the same as those in ALL_TRIGGER_COLS.
USER_TYPES	Displays all types that the current user owns.
USER_TYPE_ATTRS	Displays all the attributes of this type that the current user owns.
USER_TYPE_METHODS	Displays all the methods of this type that the current user owns.
USER_UPDATABLE_COLUMNS	Displays all join view columns that the current user can update.
USER_USERS	Displays a description on the current user.
USER_VIEWS	Displays all views that the current user owns.
all_dba_subpartition_templates	displays all subpartition templates that the current user can access.
all_idx_partitions	displays partitions of the indexes that the current user can access.
all_ind_partitions	synonym for all_idx_partitions.
dba_idx_partitions	displays all index partitions in the database.
dba_ind_partitions	synonym for dba_idx_partitions.
dba_subpartition_templates	displays all subpartition templates in the database.
user_idx_partitions	displays partitions of the indexes that the current user owns.
user_ind_partitions	synonym for user_idx_partitions.

3.2.1. ALL_ARGUMENTS

Displays all parameters of the procedure or function that the current user can call.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the procedure or function
OBJECT_NAME	VARCHAR(128)	Name of the procedure or function
PACKAGE_NAME	VARCHAR(128)	Name of the package
OBJECT_ID	NUMBER	ID of the package which contains the procedure or function
ARGUMENT_NAME	VARCHAR(128)	Name of the parameter
OVERLOAD	NUMBER	Identifier of the overloaded function
POSITION	NUMBER	Position of the parameter (NULL for function return values)
DATA_LEVEL	NUMBER	Depth of the parameter for composite data type.
DATA_TYPE	VARCHAR(65532)	Data type of the parameter
DATA_TYPE_NO	NUMBER	Data type number of the parameter
DEFAULTED	VARCHAR(1)	Default expression (Y/N)
IN_OUT	VARCHAR(9)	Direction of the parameter - IN - OUT - IN/OUT
DATA_LENGTH	NUMBER	Length of the column
DATA_PRECISION	NUMBER	Precision of the column
DATA_SCALE	NUMBER	Scale of the column
NULLABLE	VARCHAR(3)	Whether NULL values are allowed or not
TYPE_OWNER	VARCHAR(128)	Owner of the parameter type

Column Name	Data Type	Description
TYPE_NAME	VARCHAR(128)	Name of the parameter type (Package name for the package local type)
TYPE_SUBNAME	VARCHAR(128)	Name of the type defined in the package (Only for the package local type)
TYPE_LINK	VARCHAR(128)	Link of the type if it is remote. (Not supported)

- See also

[USER_ARGUMENTS](#)

3.2.2. ALL_CATALOG

Displays all tables, views, synonyms, and sequences that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
OBJECT_NAME	VARCHAR(128)	Name of the object
TABLE_NAME	VARCHAR(128)	Name of the object
OBJECT_TYPE	VARCHAR(23)	Type of the object - TABLE - VIEW - SYNONYM - SEQUENCE

- See also

[DBA_CATALOG](#)

[USER_CATALOG](#)

3.2.3. ALL_COLL_TYPES

Displays all the collection types that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
TYPE_NAME	VARCHAR(128)	Name of this type
COLL_TYPE	VARCHAR(13)	Type of this collection type
UPPER_BOUND	NUMBER	Maximum array size (Only applicable to VARYING ARRAY)
ELEM_TYPE_MOD	VARCHAR(7)	Modifier of this element type (not supported)
ELEM_TYPE_OWNER	VARCHAR(128)	Owner of this element type
ELEM_TYPE_NAME	VARCHAR(65532)	Name of this element type
LENGTH	NUMBER	Length of this element type (not supported)
PRECISION	NUMBER	Precision of this element type
SCALE	NUMBER	Scale of this element type
CHARACTER_SET_NAME	VARCHAR(128)	Name of the Character set (not supported)
ELEM_STORAGE	NUMBER	(not supported)
NULLS_STORED	VARCHAR(3)	(not supported)

- See also

[DBA_COLL_TYPES](#)

[USER_COLL_TYPES](#)

3.2.4. ALL_COL_COMMENTS

Displays comments on columns of the tables or views that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
COLUMN_NAME	VARCHAR(128)	Name of the column
COMMENTS	VARCHAR(4000)	Comment of the column

- See also

[DBA_COL_COMMENTS](#)

[USER_COL_COMMENTS](#)

3.2.5. ALL_COL_PRIVS

Displays columns for which the current user or public user is the object owner or grantor (user who granted the privilege).

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
COLUMN_NAME	VARCHAR(128)	Name of the column
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the column
GRANTABLE	VARCHAR(3)	Whether privilege was granted with ADMIN OPTION or not - YES - NO

- See also

[DBA_COL_PRIVS](#)

3.2.6. ALL_COL_PRIVS_MADE

Displays columns for which the current user is the object owner or grantor.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
COLUMN_NAME	VARCHAR(128)	Name of the column
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the column
GRANTABLE	VARCHAR(3)	Whether privilege was granted with ADMIN OPTION or not - YES - NO

- See also

[USER_COL_PRIVS_MADE](#)

3.2.7. ALL_COL_PRIVS_RECD

Displays columns for which the current user or public user is the grantee.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object

Column Name	Data Type	Description
COLUMN_NAME	VARCHAR(128)	Name of the column
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the column
GRANTABLE	VARCHAR(3)	Whether privilege was granted with ADMIN OPTION or not - YES - NO

- See also

[USER_COL_PRIVS_RECD](#)

3.2.8. ALL_CONSTRAINTS

Displays constraints defined in the table that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the constraint
CONSTRAINT_NAME	VARCHAR(128)	Name of the constraint
CON_TYPE	VARCHAR(22)	Type of the constraint - CHECK: Check constraint - PRIMARY KEY: Primary key constraint - UNIQUE: Unique key constraint - REFERENTIAL: Referential constraint - CHECK VIEW: Check view constraint - READ ONLY, VIEW: Read only constraint - NOT NULL: Not null constraint - ERR: Error constraint

Column Name	Data Type	Description
CONSTRAINT_TYPE	VARCHAR(1)	Type of the constraint - C: CHECK, NOT NULL constraint - P: PRIMARY KEY constraint - U: UNIQUE constraint - R: REFERENTIAL constraint - O: READ ONLY VIEW constraint - V: VIEW WITH CHECK OPTION constraint
TABLE_NAME	VARCHAR(128)	Name of the table or view for which constraints are defined
SEARCH_CONDITION	VARCHAR(65532)	Search condition for CHECK constraint
R_OWNER	VARCHAR(128)	Owner of the table that is referred to by referential constraint
R_CONSTRAINT_NAME	VARCHAR(128)	Name of the primary key or unique key constraint defined in the table to be referred
DELETE_RULE	VARCHAR(9)	Delete rule for the referential constraint - CASCADE - SET NULL - NO ACTION
GENERATED	VARCHAR(14)	Whether the name of the constraint indicates the user or the generated system
STATUS	VARCHAR(8)	Current status - ENABLED - DISABLED
INDEX_OWNER	VARCHAR(128)	Owner of the index used by the constraint
INDEX_NAME	VARCHAR(128)	Name of the index used by the constraint

- See also

[DBA_CONSTRAINTS](#)

[USER_CONSTRAINTS](#)

3.2.9. ALL_CONS_COLUMNS

Displays columns that the current user can access and that are specified in integrity constraint definitions.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the constraint
CONSTRAINT_NAME	VARCHAR(128)	Name of the constraint
TABLE_NAME	VARCHAR(128)	Name of the table for which the constraint is defined
COLUMN_NAME	VARCHAR(128)	Name of the column defined in constraint definition
POSITION	NUMBER	Position of the column

- See also

[DBA_CONS_COLUMNS](#)

[USER_CONS_COLUMNS](#)

3.2.10. ALL_CONS_COLUMNS_INFO

Displays columns with constraint information that the current user can access and that are specified in integrity constraint definitions.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the constraint
CON_ID	VARCHAR(128)	Constraint id
CONSTRAINT_NAME	VARCHAR(128)	Name of the constraint
TABLE_NAME	VARCHAR(128)	Name of the table for which the constraint is defined
COLUMN_NAME	VARCHAR(128)	Name of the column defined in constraint definition

Column Name	Data Type	Description
POSITION	NUMBER	Position of the column
CON_TYPE	VARCHAR(22)	Type of the constraint - CHECK: Check constraint - PRIMARY KEY: Primary key constraint - UNIQUE: Unique key constraint - REFERENTIAL: Referential constraint - CHECK VIEW: Check view constraint - READ ONLY, VIEW: Read only constraint - NOT NULL: Not null constraint - ERR: Error constraint
DELETE_RULE	VARCHAR(9)	Delete rule for the referential constraint - CASCADE - SET NULL - NO ACTION
REF_CON_ID	NUMBER	Constraint id of the primary key or unique key constraint defined in the table to be referred to

3.2.11. ALL_DB_LINKS

Displays information for the database links that the current user can use.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the database link
DB_LINK	VARCHAR(128)	Name of the database link
USERNAME	VARCHAR(128)	User ID of the database link
HOST	VARCHAR(128)	Name of the remote database
CREATED	DATE	Database creation time

- See also

[DBA_DB_LINKS](#)

[USER_DB_LINKS](#)

3.2.12. ALL_DEPENDENCIES

Displays dependencies between procedures, functions, packages, package bodies, triggers, and views that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
NAME	VARCHAR(128)	Name of the object
TYPE	VARCHAR(12)	Type of the object - INDEX - TABLE - VIEW - SYNONYM - SEQUENCE - PROCEDURE - FUNCTION - PACKAGE - NON-EXISTENT - PACKAGE BODY - TRIGGER - UNDEFINED - DIRECTORY - LIBRARY - MATERIALIZED VIEW - JAVA

Column Name	Data Type	Description
		- TYPE - TYPE BODY - OPERATOR - INDEXTYPE
PARENT_OBJ_OWNER	VARCHAR(128)	Owner of the parent object
PARENT_OBJ_NAME	VARCHAR(128)	Name of the parent object
PARENT_OBJ_TYPE	VARCHAR(12)	Type of the parent object

- See also

[DBA_DEPENDENCIES](#)

[USER_DEPENDENCIES](#)

3.2.13. ALL_DIRECTORIES

Displays all directories that the current user can access.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(128)	Name of the directory
PATH	VARCHAR(4000)	Path to the directory

- See also

[DBA_DIRECTORIES](#)

3.2.14. ALL_ENCRYPTED_COLUMNS

Displays information of all encrypted columns that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
ENCRYPTION_ALG	VARCHAR(29)	Encryption algorithm used for the encrypted column
SALT	VARCHAR(3)	Whether the SALT option was used for the encrypted column - Y: Salt option used - N: Salt option not used

- See also

[DBA_ENCRYPTED_COLUMNS](#)

[USER_ENCRYPTED_COLUMNS](#)

3.2.15. ALL_ERRORS

Displays the recent errors on every accessible view, procedure, function, package, package body, trigger, library, and java object.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
NAME	VARCHAR(128)	Name of the object
TYPE	VARCHAR(12)	Type of the object ('VIEW', 'PROCEDURE', 'FUNCTION', 'PACKAGE', 'PACKAGE BODY', 'TRIGGER', 'LIBRARY', 'JAVA', 'UNDEFINED')
SEQUENCE	NUMBER	Serial number of the error
LINE	NUMBER	Line number of the error
POSITION	NUMBER	Position in the line of the error
TEXT	VARCHAR(4000)	Error description

Column Name	Data Type	Description
ATTRIBUTE	VARCHAR(9)	Type of the error ('ERROR', 'WARNING', 'UNDEFINED')
MESSAGE_NUMBER	NUMBER	Error number

- See also

[DBA_ERRORS](#)

[USER_ERRORS](#)

3.2.16. ALL_EXTERNAL_LOCATIONS

Displays all external table locations that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the external table location
TABLE_NAME	VARCHAR(128)	Name of the external table location
DIRECTORY_NAME	VARCHAR(30)	Name of the directory of the external table location
LOCATION	VARCHAR(4000)	External table location

- See also

[DBA_EXTERNAL_LOCATIONS](#)

[USER_EXTERNAL_LOCATIONS](#)

3.2.17. ALL_EXTERNAL_TABLES

Displays all external tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the external table
TABLE_NAME	VARCHAR(128)	Name of the external table

Column Name	Data Type	Description
DEFAULT_DIRECTORY_NAME	VARCHAR(30)	Name of the default directory of the external table
REJECT_LIMIT	VARCHAR	Reject limit of the external table
ACCESS_PARAMETERS	LONG	Access parameter of the external table

- See also

[DBA_EXTERNAL_TABLES](#)

[USER_EXTERNAL_TABLES](#)

3.2.18. ALL_IDX_AND_LOB_COLUMNS_INFO

Displays index columns (including LOB) with index information of all tables that the current user can access

- Columns

Column Name	Data Type	Description
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
INDEX_TYPE	VARCHAR	Index type (string)
COLUMN_NAME	VARCHAR(128)	Name of the column
COLUMN_POSITION	NUMBER	Position of the column

3.2.19. ALL_IDX_COLUMNS

Displays index columns of all tables that the current user can access.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
COLUMN_POSITION	NUMBER	Position of the column within the index
COLUMN_LENGTH	NUMBER	Length of the column within the index
DESCEND	VARCHAR(4)	Sorting order in columns - DESC - ASC

- See also

[ALL_IND_COLUMNS](#)

[DBA_IDX_COLUMNS](#)

[DBA_IND_COLUMNS](#)

[USER_IDX_COLUMNS](#)

[USER_IND_COLUMNS](#)

3.2.20. ALL_IDX_COLUMNS_INFO

Displays index columns with index information of all tables that the current user can access.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table
UNIQUENESS	VARCHAR(9)	Whether or not the unique key is indexed. - NONUNIQUE - UNIQUE - UNDEFINED
DISTINCT_KEYS	NUMBER	The number of distinct keys in the index
LEAF_BLOCKS	NUMBER	The number of leaf blocks in the index
COLUMN_NAME	VARCHAR(128)	Name of the column
COLUMN_POSITION	NUMBER	Position of the column within the index
COLUMN_LENGTH	NUMBER	Length of the column within the index
DESCEND	VARCHAR(4)	Sorting order in columns - DESC - ASC

3.2.21. ALL_IDX_EXPRESSIONS

Displays expressions on function-based index columns of all tables that the current user can access.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_POSITION	NUMBER	Position of the column within the index
COLUMN_EXPRESSION	LONG	Expression of the column within the index

- See also

[ALL_IND_EXPRESSIONS](#)

[DBA_IDX_EXPRESSIONS](#)

[DBA_IND_EXPRESSIONS](#)

[USER_IDX_EXPRESSIONS](#)

[USER_IND_EXPRESSIONS](#)

3.2.22. ALL_IDX_SUBPARTITIONS

Displays subpartitions of the index that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
INDEX_NAME	VARCHAR(128)	Name of the index
PARTITION_NAME	VARCHAR(128)	Name of the index partition
SUBPARTITION_NAME	VARCHAR(128)	Name of the index subpartition
BOUND	LONG	Subpartition bound value
SUBPARTITION_NO	NUMBER	Subpartition number
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the subpartition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter

Column Name	Data Type	Description
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
NUM_ROWS	NUMBER	The number of rows in the index subpartition
LAST_ANALYZED	DATE	Date of the most recent analysis for the subpartition

- See also

[ALL_IND_SUBPARTITIONS](#)

[DBA_IDX_SUBPARTITIONS](#)

[DBA_IND_SUBPARTITIONS](#)

3.2.23. ALL_INDEXES

Displays indexes of all tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
INDEX_TYPE	VARCHAR(25)	Type of the index - NORMAL - FUNCTION-BASED - LOB
TABLE_OWNER	VARCHAR(128)	Owner of the indexed object

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	The indexed object
TABLE_TYPE	CHAR(9)	Type of the indexed object - INDEX - TABLE - VIEW - SYNONYM - UNDEFINED
UNIQUENESS	VARCHAR(9)	Whether or not the unique key is indexed. - NONUNIQUE - UNIQUE - UNDEFINED
COMPRESSION	VARCHAR(8)	Whether or not the index is compressed. - DISABLED - ENABLED
PREFIX_LENGTH	NUMBER	The number of prefix column count if compressed.
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace containing the index
INI_TRANS	NUMBER	Value of the INITRANS parameter
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INITIAL_EXTENT	NUMBER	Size of the initial extent
NEXT_EXTENT	NUMBER	Size of the next extent
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
BLEVEL	NUMBER	Level of B-tree index (The level is 0 for a B-tree with only a root node)
LEAF_BLOCKS	NUMBER	The number of leaf blocks in the index

Column Name	Data Type	Description
DISTINCT_KEYS	NUMBER	The number of distinct keys in the index
CLUSTERING_FACTOR	NUMBER	The clustering factor of the index
STATUS	VARCHAR(8)	Indicates whether a nonpartitioned index is VALID or UNUSABLE
NUM_ROWS	NUMBER	The number of rows in the index
LAST_ANALYZED	DATE	Date of the most recent analysis for the table
PARTITIONED	VARCHAR(3)	Whether or not the index is partitioned - YES - NO
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
GENERATED_BY_SYSTEM	VARCHAR(1)	Whether or not the name of the index was generated in the system - Y - N
REFERENTIAL	VARCHAR(3)	Whether the index was automatically generated for corresponding referential integrity constraints
MAX_EXTENTS	NUMBER	Maximum number of extents that the index can use
INCLUDE_COLUMN	NUMBER	ID of the last column to be included in the primary key index of the index-organized table
MIN_EXTENTS	NUMBER	Minimum number of extents that the index can use
PCT_THRESHOLD	NUMBER	Percentage of the block space allowed per index entry.
VISIBILITY	VARCHAR(9)	Visibility property of an index.
PARAMETERS	VARCHAR(30)	(Not supported)

Column Name	Data Type	Description
DOMIDX_STATUS	VARCHAR(12)	(Not supported)
DOMIDX_OPSTATUS	VARCHAR(6)	(Not supported)
DOMIDX_MANAGEMENT	VARCHAR2(14)	(Not supported)

- See also

[DBA_INDEXES](#)

[USER_INDEXES](#)

3.2.24. ALL_IND_COLUMNS

Synonym for ALL_IDX_COLUMNS.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
COLUMN_POSITION	NUMBER	Position of the column within the index
COLUMN_LENGTH	NUMBER	Length of the column within the index
DESCEND	VARCHAR(4)	Sorting order in columns - DESC - ASC

- See also

[ALL_IDX_COLUMNS](#)

[DBA_IDX_COLUMNS](#)

[DBA_IND_COLUMNS](#)

[USER_IDX_COLUMNS](#)

[USER_IND_COLUMNS](#)

3.2.25. ALL_IND_EXPRESSIONS

Synonym for ALL_IDX_EXPRESSIONS.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_POSITION	NUMBER	Position of the column within the index
COLUMN_EXPRESSION	LONG	Expression of the column within the index

- See also

[ALL_IDX_EXPRESSIONS](#)

[DBA_IDX_EXPRESSIONS](#)

[DBA_IND_EXPRESSIONS](#)

[USER_IDX_EXPRESSIONS](#)

[USER_IND_EXPRESSIONS](#)

3.2.26. ALL_IND_SUBPARTITIONS

Synonym for ALL_IDX_SUBPARTITIONS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
INDEX_NAME	VARCHAR(128)	Name of the index
PARTITION_NAME	VARCHAR(128)	Name of the index partition
SUBPARTITION_NAME	VARCHAR(128)	Name of the index subpartition
BOUND	LONG	Subpartition bound value
SUBPARTITION_NO	NUMBER	Subpartition number
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the subpartition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
NUM_ROWS	NUMBER	The number of rows in the index subpartition
LAST_ANALYZED	DATE	Date of the most recent analysis for the subpartition

- See also

[ALL_IDX_SUBPARTITIONS](#)

[DBA_IDX_SUBPARTITIONS](#)

[DBA_IND_SUBPARTITIONS](#)

3.2.27. ALL_JAVA_ARGUMENTS

Displays all parameters that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the class
NAME	VARCHAR(4000)	Name of the class
METHOD_INDEX	NUMBER	Index of the method
METHOD_NAME	VARCHAR(4000)	Name of the method
ARGUMENT_POSITION	NUMBER	Position of the parameter (start position 1)
ARRAY_DEPTH	NUMBER	Array depth of the parameter type
ARGUMENT_TYPE	VARCHAR(7)	Name of the parameter type
ARGUMENT_CLASS	VARCHAR(4000)	Actual class name for the parameter whose type is class

- See also

[DBA_JAVA_ARGUMENTS](#)

[USER_JAVA_ARGUMENTS](#)

3.2.28. ALL_JAVA_CLASSES

Displays all classes that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the class
NAME	VARCHAR(4000)	Name of the class
MAJOR	NUMBER	Major version of the class defined in JVM
MINOR	NUMBER	Minor version of the class defined in JVM
KIND	VARCHAR2(9)	Type of the class - Interface - Class
ACCESSIBILITY	VARCHAR(9)	Accessibility of the class
IS_INNER	VARCHAR(1)	Whether or not the class is an INNER class
IS_ABSTRACT	VARCHAR(1)	Whether or not the class is an abstract class
IS_FINAL	VARCHAR(1)	Whether or not the class is a final class
STATUS	VARCHAR(7)	Status of the library - VALID - INVALID
SOURCE	VARCHAR(4000)	Source of the class
SUPER	VARCHAR(4000)	Name of the SUPER class
OUTER	VARCHAR(4000)	Name of the OUTER class if the class is an INNER class

- See also

[DBA_JAVA_CLASSES](#)

[USER_JAVA_CLASSES](#)

3.2.29. ALL_JAVA_FIELDS

Displays all fields that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the field
NAME	VARCHAR(4000)	Name of the class
FIELD_INDEX	NUMBER	Index of the field
FIELD_NAME	VARCHAR(4000)	Name of the field
ACCESSIBILITY	VARCHAR(9)	Accessibility of the field
IS_STATIC	VARCHAR(1)	Whether or not the field is a STATIC field
IS_FINAL	VARCHAR(1)	Whether or not the field is a FINAL field
IS_VOLATILE	VARCHAR(1)	Whether or not the field is a VOLATILE field
IS_TRANSIENT	VARCHAR(1)	Whether or not the field is a TRANSIENT field
ARRAY_DEPTH	NUMBER	Array depth of the field type
FIELD_TYPE	VARCHAR(7)	Name of the field type
FIELD_CLASS	VARCHAR(4000)	Actual class name if the field type is class

- See also

[DBA_JAVA_FIELDS](#)

[USER_JAVA_FIELDS](#)

3.2.30. ALL_JAVA_METHODS

Displays all methods that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the method
NAME	VARCHAR(4000)	Name of the class
METHOD_INDEX	NUMBER	Index of the method
METHOD_NAME	VARCHAR(4000)	Name of the method

Column Name	Data Type	Description
ACCESSIBILITY	VARCHAR(9)	Accessibility of the method
IS_STATIC	VARCHAR(1)	Whether or not the method is a STATIC method
IS_FINAL	VARCHAR(1)	Whether or not the method is a FINAL method
IS_SYNCHRONIZED	VARCHAR(1)	Whether or not the method is a SYNCHRONIZED method
IS_NATIVE	VARCHAR(1)	Whether or not the method is a NATIVE method
IS_STRICT	VARCHAR(1)	Whether or not the method is a STRICT method
ARGUMENTS	NUMBER	The number of parameters of the method
THROWS	NUMBER	The number of exceptions sent by the method
ARRAY_DEPTH	NUMBER	Array depth of the return type
RETURN_TYPE	VARCHAR(7)	Name of the return type
RETURN_CLASS	VARCHAR(4000)	Actual class name if the return type is class

- See also

[DBA_JAVA_METHODS](#)

[USER_JAVA_METHODS](#)

3.2.31. ALL_JOBS

Displays all jobs that the current user can access.

- Columns

Column Name	Data Type	Description
JOB	NUMBER	ID of the job
SCHEMA_USER	NUMBER	Owner ID of the job
NEXT_DATE	DATE	Next job execution date
INTERVAL	VARCHAR(4000)	Interval used to evaluate the value to be set in NEXT_DATE column after the job is executed

Column Name	Data Type	Description
BROKEN	VARCHAR(1)	Status of the job - Y: Invalid - N: Valid
FAILURES	NUMBER	The number of successive failures in job executions
WHAT	VARCHAR(4000)	The contents that this job will execute
INSTANCE	NUMBER	Instance number of RDBMS which runs the job
THIS_DATE	DATE	Date that this job started
LAST_DATE	DATE	Date that this job finished successfully

- See also

[DBA_JOBS](#)

[USER_JOBS](#)

3.2.32. ALL_JOBS_WITH_NAME

Displays all jobs with job name that the current user can access.

- Columns

Column Name	Data Type	Description
JOB	NUMBER	ID of the job
NAME	VARCHAR(100)	NAME of the job
SCHEMA_USER	NUMBER	Owner ID of the job
NEXT_DATE	DATE	Next job execution date
INTERVAL	VARCHAR(4000)	Interval used to evaluate the value to be set in NEXT_DATE column after the job is executed
BROKEN	VARCHAR(1)	Status of the job - Y: Invalid - N: Valid

Column Name	Data Type	Description
FAILURES	NUMBER	The number of successive failures in job executions
WHAT	VARCHAR(4000)	The contents that this job will execute
INSTANCE	NUMBER	Instance number of RDBMS which runs the job
THIS_DATE	DATE	Date that this job started
LAST_DATE	DATE	Date that this job finished successfully

- See also

[DBA_JOBS_WITH_NAME](#)

[USER_JOBS_WITH_NAME](#)

3.2.33. ALL_LIBRARIES

Displays all libraries that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the library
LIBRARY_NAME	VARCHAR(128)	Name of the library
FILE_SPEC	VARCHAR(4000)	Path to the library
STATUS	VARCHAR(7)	Status of the library - VALID - INVALID

- See also

[DBA_LIBRARIES](#)

[USER_LIBRARIES](#)

3.2.34. ALL_LOBS

Displays large objects (LOB) which belong to all tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object that contains the LOB
TABLE_NAME	VARCHAR(128)	Name of the table that contains the LOB
COLUMN_NAME	VARCHAR(128)	Name of the LOB column
SEGMENT_NAME	VARCHAR(128)	Name of the LOB segment
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the LOB belongs
INDEX_NAME	VARCHAR(128)	Name of the LOB index
IN_ROW	VARCHAR(3)	Whether STORAGE IN ROW is enabled or not - YES - NO
ENCRYPT	VARCHAR(3)	Whether ENCRYPTION is enabled or not - YES - NO
COMPRESSION	VARCHAR(10)	Whether COMPRESS is low, medium, high or not - LOW - MEDIUM - HIGH - NOCOMPRESS
DEDUPLICATION	VARCHAR(3)	Whether DEDUPLICATE is enabled or not - LOB - NO
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT

Column Name	Data Type	Description
		- KEEP - RECYCLE
PARTITIONED	VARCHAR(3)	Whether or not the LOB column is in a partitioned table - YES - NO

- See also

[DBA_LOBS](#)

[USER_LOBS](#)

3.2.35. ALL_LOB_PARTITIONS

Displays all LOB partitions that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the LOB column
PARTITION_NAME	VARCHAR(128)	Name of the table partition
LOB_PARTI TION_NAME	VARCHAR(128)	Name of the LOB partition
LOB_INDPART_NAME	VARCHAR(128)	Name of the LOB index partition
PARTITION_NO	NUMBER	Partition number within the table
COMPOSITE	VARCHAR(3)	Whether or not the partition is a composite partition - LOB - NO
IN_ROW	VARCHAR(3)	Whether STORAGE IN ROW is enabled or not

Column Name	Data Type	Description
		- YES - NO
ENCRYPT	VARCHAR(3)	Whether ENCRYPTION is enabled or not - YES - NO
COMPRESSION	VARCHAR(10)	Whether COMPRESS is low, medium, high or not - LOW - MEDIUM - HIGH - NOCOMPRESS
DEDUPLICATION	VARCHAR(3)	Whether DEDUPLICATE is enabled or not - YES - NO
TABSPACE_NAME	VARCHAR(128)	Name of the tablespace to which the LOB partition belongs
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE

- See also

[DBA_LOB_PARTITIONS](#)

[USER_LOB_PARTITIONS](#)

3.2.36. ALL_LOB_SUBPARTITIONS

Displays LOB subpartitions that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the LOB column
PARTITION_NAME	VARCHAR(128)	Name of the table partition
LOB_NAME	VARCHAR(128)	Name of the LOB
LOB_PARTITION_NAME	VARCHAR(128)	Name of the LOB partition
SUBPARTITION_NAME	VARCHAR(128)	Name of the table subpartition
LOB_SUBPARTITION_NAME	VARCHAR(128)	Name of the LOB subpartition
LOB_INDSUBPART_NAME	VARCHAR(128)	Name of the LOB index subpartition
SUBPARTITION_NO	NUMBER	Subpartition number within the table
IN_ROW	VARCHAR(3)	Whether STORAGE IN ROW is enabled or not - YES - NO
ENCRYPT	VARCHAR(3)	Whether ENCRYPTION is enabled or not - YES - NO
COMPRESSION	VARCHAR(10)	Whether COMPRESS is low, medium, high or not - LOW - MEDIUM - HIGH - NOCOMPRESS

Column Name	Data Type	Description
DEDUPLICATION	VARCHAR(3)	Whether DEDUPLICATE is enabled or not - YES - NO
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the LOB partition belongs
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE

- See also

[DBA_LOB_SUBPARTITIONS](#)

[USER_LOB_SUBPARTITIONS](#)

3.2.37. ALL_LOG_GROUPS

Displays the log group definitions on the tables accessible to the current user.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the log group definition
LOG_GROUP_NAME	VARCHAR(128)	Name of the log group definition
TABLE_NAME	VARCHAR(128)	Name of the table where the log group is defined
LOG_GROUP_TYPE	VARCHAR(19)	Type of the log group: - PRIMARY KEY LOGGING - UNIQUE KEY LOGGING

Column Name	Data Type	Description
		- FOREIGN KEY LOGGING - ALL COLUMN LOGGING - USER LOG GROUP
ALWAYS	VARCHAR(11)	Y Indicates that the log group is logged whenever a row is updated; N Indicates that the log group is logged whenever a member column is updated.
GENERATED	VARCHAR(14)	Whether the name of the supplemental log group indicates the system generated (GENERATED NAME) or not (USER NAME).

- See also

[DBA_LOG_GROUPS](#)

[USER_LOG_GROUPS](#)

3.2.38. ALL_LOG_GROUP_COLUMNS

Displays columns that are accessible to the current user and that are specified in log groups.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the log group definition
LOG_GROUP_NAME	VARCHAR(128)	Name of the log group definition
TABLE_NAME	VARCHAR(128)	Name of the table where the log group is defined
COLUMN_NAME	VARCHAR(128)	Name of the column or attribute of the object type column specified in the log group definition
POSITION	NUMBER	Original position of the column or attribute in the definition of the object
LOGGING_PROPERT Y	VARCHAR(6)	Indicates whether the column or attribute would be supplementally logged (LOG) or not (NO LOG)

- See also

[DBA_LOG_GROUP_COLUMNS](#)

[USER_LOG_GROUP_COLUMNS](#)

3.2.39. ALL_METHOD_PARAMS

Displays all the method parameters of the type that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
TYPE_NAME	VARCHAR(128)	Name of this type
METHOD_NAME	VARCHAR(128)	Name of this method
METHOD_NO	NUMBER	Number of this method
PARAM_NAME	VARCHAR(128)	Name of this parameter
PARAM_NO	NUMBER	Location of this parameter
PARAM_MODE	VARCHAR(9)	Mode of this parameter
PARAM_TYPE_MOD	VARCHAR(128)	Modifier of this parameter type (not supported)
PARAM_TYPE_OWNER	VARCHAR(128)	Owner of this parameter type
PARAM_TYPE_NAME	VARCHAR(65532)	Name of this parameter type
CHARACTER_SET_NAME	VARCHAR(128)	Name of the Character set (not supported)

- See also

[DBA_METHOD_PARAMS](#)

[USER_METHOD_PARAMS](#)

3.2.40. ALL_METHOD_RESULTS

Displays the result of the method of this type that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
TYPE_NAME	VARCHAR(128)	Name of this type
METHOD_NAME	VARCHAR(128)	Name of this method
METHOD_NO	NUMBER	Method number of this method
PARAM_TYPE_MOD	VARCHAR(128)	Modifier of this result type (not supported)
PARAM_TYPE_OWNER	VARCHAR(128)	Owner of this result type
PARAM_TYPE_NAME	VARCHAR(65532)	Name of this result type
CHARACTER_SET_NAME	VARCHAR(128)	Name of Character set (not supported)

- See also

[DBA_METHOD_RESULTS](#)

[USER_METHOD_RESULTS](#)

3.2.41. ALL_MVIEWS

Displays all materialized views that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the materialized view
MVIEW_NAME	VARCHAR(128)	Name of the materialized view
CONTAINER_NAME	VARCHAR(128)	Container table name of the materialized view
QUERY	LONG	Defining query of the materialized view.
QUERY_LEN	NUMBER(38)	Length of the defining query in bytes
UPDATABLE	CHAR(1)	Whether or not the materialized view is updatable

Column Name	Data Type	Description
		- Y: Updatable - N: Not updatable
UPDATE_LOG	CHAR(0)	Update log for an updatable materialized view
MASTER_ROLLBACK_SEG	CHAR(0)	Rollback segment of the master site
MASTER_LINK	CHAR(0)	Database link to the master site
REWRITE_ENABLED	VARCHAR(1)	Whether or not the rewrite of a materialized view query is enabled - Y: rewrite enabled - N: rewrite disabled
REWRITE_CAPABILITY	CHAR(7)	Rewrite capability of the materialized view
REFRESH_MODE	VARCHAR(6)	Refresh mode of the materialized view - Commit - Demand
REFRESH_METHOD	VARCHAR(1)	Refresh method of the materialized view - C (Complete) - F (Fast) - ? (Force) - N (Never)
BUILD_MODE	VARCHAR(9)	Build mode of the materialized view - Immediate - Deferred - Prebuilt
FAST_REFRESHABLE	CHAR(2)	Whether or not the materialized view is eligible for fast refresh
LAST_REFRESH_TYPE	CHAR(2)	The most recent refresh type

Column Name	Data Type	Description
LAST_REFRESH_DATE	DATE	The most recent refresh date
STALENESS	VARCHAR(9)	Staleness of the materialized view
AFTER_FAST_REFRESH	CHAR(2)	Staleness of the materialized view after the expected fast refresh
UNKNOWN_PREBUILT	CHAR(1)	Whether or not the materialized view is of unknown status as it is prebuilt (Y/N)
UNKNOWN_PLSQL_FUNC	CHAR(1)	Whether or not the materialized view is of unknown status as it contains psm function (Y/N)
UNKNOWN_EXTERNAL_TABLE	CHAR(1)	Whether or not the materialized view is of unknown status as it contains external tables (Y/N)
UNKNOWN_CONSIDER_FRESH	CHAR(1)	Whether or not the materialized view is of unknown status as it is marked consider fresh (Y/N)
UNKNOWN_IMPORT	CHAR(1)	Whether or not the materialized view is of unknown status as it is imported (Y/N)
UNKNOWN_TRUSTED_FD	CHAR(1)	Whether or not the materialized view is of unknown status as it uses trusted constraints (Y/N)
COMPILE_STATE	CHAR(5)	Compilation status of the materialized view
USE_NO_INDEX	CHAR(1)	Whether or not the index is used in the materialized view creation - Y: using no index - N: using the default index
STALE_SINCE	VARCHAR(0)	Time passed from when the materialized view became stale
INTERVAL	VARCHAR(2000)	Date function used to compute the next refresh time
REDUCED_PRECISION	VARCHAR(1)	Whether or not the reduced precision is used for prebuilt materialized view (Y/N)
REFRESH_KEY	VARCHAR(11)	Represents the key type which is used to refresh a materialized view.

Column Name	Data Type	Description
		- ROWID: rowid - PRIMARY KEY: primary key column of the base table

- See also

[DBA_MVIEWS](#)

[USER_MVIEWS](#)

3.2.42. ALL_MVIEW_COMMENTS

Displays comments on the materialized views that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the materialized view
MVIEW_NAME	VARCHAR(128)	Name of the materialized view
COMMENTS	VARCHAR(4000)	Comment on the materialized view

- See also

[DBA_MVIEW_COMMENTS](#)

[USER_MVIEW_COMMENTS](#)

3.2.43. ALL_MVIEW_DETAIL_RELATIONS

describes all such detail relations defined for all materialized views in the database.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the materialized view
NAME	VARCHAR(128)	Name of the materialized view
MASTER_OWNER	VARCHAR(128)	Owner of the master table

Column Name	Data Type	Description
MASTER	VARCHAR(128)	Name of the master table
LAST_REFRESH	DATE	SYSDATE from the master site at the time of the last refresh
LAST_REFRESH	DATE	Implicit or explicit alias for detail relation. Not supported column.

- See also

[DBA_MVIEW_DETAIL_RELATIONS](#)

[USER_MVIEW_REFRESH_TIMES](#)

3.2.44. ALL_MVIEW_LOGS

Displays all materialized view logs that the current user can access.

- Columns

Column Name	Data Type	Description
LOG_OWNER	VARCHAR2(128)	Owner of the materialized view log
MASTER	VARCHAR2(128)	Name of the master table whose changes are logged
LOG_TABLE	VARCHAR2(128)	Name of the log table
LOG_TRIGGER	VARCHAR2(128)	after-row trigger on the master table which inserts rows into the log
ROWIDS	VARCHAR2(3)	Whether to record the rowid information
PRIMARY_KEY	VARCHAR2(3)	Whether to record the primary key information
FILTER_COLUMNS	VARCHAR2(3)	Whether to record the filter column information
SEQUENCE	VARCHAR2(3)	Whether to record the sequence information
INCLUDE_NEW_VALUES	VARCHAR2(3)	Whether to record both old and new values - Y: Keeps both old and new values. - N: Keeps old values only.

- See also

[DBA_MVIEW_LOGS](#)

[USER_MVIEW_LOGS](#)

3.2.45. ALL_MVIEW_REFRESH_TIMES

Describes refresh times of all materialized views accessible to the current user.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the materialized view
NAME	VARCHAR(128)	Name of the materialized view
MASTER_OWNER	VARCHAR(128)	Owner of the master table
MASTER	VARCHAR(128)	Name of the master table
LAST_REFRESH	DATE	SYSDATE from the master site at the time of the last refresh

- See also

[DBA_MVIEW_REFRESH_TIMES](#)

[USER_MVIEW_REFRESH_TIMES](#)

3.2.46. ALL_OBJECTS

Displays all objects that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
OBJECT_NAME	VARCHAR(128)	Name of the object
SUBOBJECT_NAME	VARCHAR(128)	Name of the subobject (For example, partition name)
OBJECT_ID	NUMBER	ID of the object

Column Name	Data Type	Description
OBJECT_TYPE	VARCHAR(23)	Type of the object - INDEX - TABLE - VIEW - SYNONYM - SEQUENCE - PROCEDURE - FUNCTION - PACKAGE - PACKAGE BODY - TRIGGER - TABLE PARTITION - INDEX PARTITION - LOB - LOB PARTITION - TABLE SUBPARTITION - INDEX SUBPARTITION - LOB SUBPARTITION - DIRECTORY - UNDEFINED - TYPE
OBJECT_TYPE_NO	NUMBER	Type number of the object
CREATED	DATE	Date that the object was created
LAST_DDL_TIME	DATE	Date that the modification took effect on the object through DDL statement
TIMESTAMP	VARCHAR(19)	Timestamp for the latest changes on object structure
STATUS	VARCHAR(7)	Status of the object

Column Name	Data Type	Description
		- VALID - INVALID
TEMPORARY	VARCHAR(1)	Whether or not the object is a temporary object - Y - N

- See also

[DBA_OBJECTS](#)

[USER_OBJECTS](#)

3.2.47. ALL_PACKAGE_COLL_TYPES

Displays collection types of the package that the current user can access,

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
PACKAGE_NAME	VARCHAR(128)	Package name of this type
TYPE_NAME	VARCHAR(128)	Name of this type
UPPER_BOUND	NUMBER	Maximum of a varray or length constraint of an index by table.
ELEM_TYPE_MOD	VARCHAR(7)	Type modifier of the field
ELEM_TYPE_OWNER	VARCHAR(128)	Owner of the field
ELEM_TYPE_NAME	VARCHAR(128)	Type name of the field
ELEM_TYPE_PACKAGE	VARCHAR(128)	Name of the package containing the attribute type.
PRECISION	NUMBER	Precision of this type
SCALE	NUMBER	Scale of this type

Column Name	Data Type	Description
LENGTH	NUMBER	Length of this type (for varchar type)
INDEX_TYPE	VARCHAR(128)	Type name of the index by type (VARCHAR2 or BINARY_INTEGER)

- See also

[DBA_PACKAGE_COLL_TYPES](#)

[USER_PACKAGE_COLL_TYPES](#)

3.2.48. ALL_PACKAGE_MEMBER_TYPES

Displays attributes of the package type that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
PACKAGE_NAME	VARCHAR(128)	Package name of this type
TYPE_NAME	VARCHAR(128)	Name of this type
TYPE_NO	NUMBER	Type number of this type
PRECISION	NUMBER	Precision of this type
SCALE	NUMBER	Scale of this type
TYPE_OBJ_ID	NUMBER	Object id of this type
MEMBER_NO	NUMBER	Member number of this type
KIND	NUMBER	Member kind of this type
LIMIT	NUMBER	Limit of this type
COUNT	NUMBER	Count of this type
POS_NO	NUMBER	Order number of the attribute
ATTR_NAME	VARCHAR(128)	Name of the record field

Column Name	Data Type	Description
ATTR_TYPE_MOD	VARCHAR(7)	Type modifier of the record field
ATTR_NAME_OWNER	VARCHAR(128)	Owner of the record field
ATTR_NAME_NAME	VARCHAR(128)	Type name of the record field (Same as name of the TYPE_NO column)
ATTR_NAME_PACK AGE	VARCHAR(128)	Name of the package containing the attribute type.

- See also

[DBA_PACKAGE_MEMBER_TYPES](#)

[USER_PACKAGE_MEMBER_TYPES](#)

3.2.49. ALL_PACKAGE_TYPES

Displays member types of the package that the current user can access

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
PACKAGE_NAME	VARCHAR(128)	Package name of this type
TYPE_NAME	VARCHAR(128)	Name of this type
KIND	NUMBER	Member kind of this type
KIND_NAME	VARCHAR	Member kind of this type in string
LIMIT	NUMBER	Limit of this type
COUNT	NUMBER	Count of this type
MEMBER_NO	NUMBER	Member number of the type in the package.

- See also

[DBA_PACKAGE_TYPES](#)

[USER_PACKAGE_TYPES](#)

3.2.50. ALL_PART_INDEXES

Displays partition information for the partitioned indexes that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the partitioned index
INDEX_NAME	VARCHAR(128)	Name of the partitioned index
TABLE_NAME	VARCHAR(128)	Name of the partitioned table
PARTITIONING_TYPE	VARCHAR(5)	Type of the partition - RANGE - HASH - LIST
SUBPARTITIONING_TYPE	VARCHAR(5)	Type of the composite partition - RANGE - HASH - LIST - NONE
PARTITION_COUNT	NUMBER	The number of partitions
DEF_SUBPARTITION_COUNT	NUMBER	In the case of composite partition, the default number for the number of subpartitions (when only it is defined)
PARTITIONING_KEY_COUNT	NUMBER	The number of columns used as partitioning key
SUBPARTITIONING_KEY_COUNT	NUMBER	For a composite partition, the number of columns used as subpartitioning key
LOCALITY	VARCHAR(6)	Whether the index is a local index or global index - LOCAL: Local index - GLOBAL: Global index
ALIGNMENT	VARCHAR(12)	Whether or not the partitioned key column is prefixed - PREFIXED: prefixed

Column Name	Data Type	Description
		- NON_PREFIXED: not prefixed
DEF_TA BLESPEACE_NAME	VARCHAR(128)	Name of the default tablespace used to add or split a partition
DEF_PCT_FREE	NUMBER	Default value of PCTFREE used to add a partition
DEF_INI_TRANS	NUMBER	Default value of INITRANS used to add a partition.
DEF_NEXT_EXTENT	NUMBER	Default value of NEXT_EXTENT used to add a partition
DEF_MAX_EXTENTS	NUMBER	Default value of MAX_EXTENTS used to add a partition
DEF_BUFFER_POOL	VARCHAR(7)	Default value of buffer pool type used to add a partition - DEFAULT - KEEP - RECYCLE

- See also

[DBA_PART_INDEXES](#)

[USER_PART_INDEXES](#)

3.2.51. ALL_PART_KEY_COLUMNS

Displays partitioning key columns of the partitioned tables or indexes that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the partitioned table or index
NAME	VARCHAR(128)	Name of the partitioned table or index
OBJECT_TYPE	CHAR(5)	Type of the partition - TABLE - INDEX
COLUMN_NAME	VARCHAR(128)	Name of the column

Column Name	Data Type	Description
COLUMN_POSITION	NUMBER	Position of the column within the partitioning key

- See also

[DBA_PART_KEY_COLUMNS](#)

[USER_PART_KEY_COLUMNS](#)

3.2.52. ALL_PART_LOBS

Displays LOBs which belong to all partitioned tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the partitioned table
TABLE_NAME	VARCHAR(128)	Name of the partitioned table
COLUMN_NAME	VARCHAR(128)	Name of the LOB column
LOB_NAME	VARCHAR(128)	Name of the LOB
LOB_INDEX_NAME	VARCHAR(128)	Name of the LOB index
DEF_IN_ROW	VARCHAR(3)	Whether STORAGE IN ROW used by default to add or split a partition is enabled or not - YES - NO
DEF_TA BLESPEACE_NAME	VARCHAR(128)	Name of the default tablespace used to add or split a partition
DEF_NEXT_EXTENT	NUMBER	Default value of NEXT_EXTENT used to add a partition
DEF_MAX_EXTENTS	NUMBER	Default value of MAX_EXTENTS used to add a partition
DEF_BUFFER_POOL	VARCHAR(7)	Default value of buffer pool type used to add a partition - DEFAULT - KEEP

Column Name	Data Type	Description
		- RECYCLE

- See also

[DBA_PART_LOBS](#)

[USER_PART_LOBS](#)

3.2.53. ALL_PART_TABLES

Displays partitioning information of all partitioned tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the partitioned table
TABLE_NAME	VARCHAR(128)	Name of the partitioned table
PARTITIONING_TYPE	VARCHAR(5)	Type of the partitioning method - RANGE - HASH - LIST
SUBPARTITIONING_TYPE	VARCHAR(5)	Type of the composite partition - RANGE - HASH - LIST - NONE
PARTITION_COUNT	NUMBER	The number of partitions
DEF_SUBPARTITION_COUNT	NUMBER	For a composite partition, the number of subpartitions (only when it is defined)
PARTITIONING_KEY_COUNT	NUMBER	The number of columns participating in the partitioning key

Column Name	Data Type	Description
SUBPARTITIONING_KEY_COUNT	NUMBER	For a composite partition, the number of columns used as subpartitioning key
DEF_TABLESPACE_NAME	VARCHAR(128)	Name of default tablespace used to add or split a partition
DEF_PCT_FREE	NUMBER	Default value of PCTFREE used to add a partition
DEF_INI_TRANS	NUMBER	Default value of INITRANS used to add a partition
DEF_NEXT_EXTENT	NUMBER	Default value of NEXT_EXTENT used to add a partition
DEF_MAX_EXTENTS	NUMBER	Default value of MAX_EXTENTS used to add a partition
DEF_BUFFER_POOL	VARCHAR(7)	Default value of buffer pool type used to add a partition - DEFAULT - KEEP - RECYCLE
MAX_TRANS	NUMBER	Value of the MAX_TRANS parameter
INITIAL_EXTENT	NUMBER	Value of the INITIAL_EXTENT parameter
MIN_EXTENT	NUMBER	Value of the MIN_EXTENT parameter
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
INTERVAL	VARCHAR(128)	String of the interval values

- See also

[DBA_PART_TABLES](#)

[USER_PART_TABLES](#)

3.2.54. ALL_PROCEEDURES

Displays all procedures defined in all procedures and tables that the current user owns.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the procedure
OBJECT_NAME	VARCHAR(128)	Name of the object
PROCEDURE_NAME	VARCHAR(128)	Name of the procedure
AGGREGATE	CHAR(2)	Whether or not it is an AGGREGATE function
PIPELINED	CHAR(2)	Whether or not the table function is pipelined
IMPLTYPEOWNER	CHAR(0)	Owner of the IMPLEMENTATION type
IMPLTYPENAME	CHAR(0)	Name of the IMPLEMENTATION type
PARALLEL	CHAR(2)	Whether PARALLEL is enabled or not
INTERFACE	CHAR(2)	Whether or not it is an INTERFACE function
DETERMINISTIC	CHAR(2)	Whether or not it is a DETERMINISTIC function
FUNCTIONABLE	VARCHAR(3)	Whether or not it is a function
WRAPPED	VARCHAR(3)	Whether or not it is encrypted (deprecated)
AUTHID	VARCHAR(7)	Name of AUTHID
MEMBER_NO	NUMBER	Index of its object

- See also

[DBA_PROCEEDURES](#)

[USER_PROCEEDURES](#)

3.2.55. ALL_QUEUES

Describes all queues on which the current user has enqueue or dequeue privileges.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the queue

Column Name	Data Type	Description
NAME	VARCHAR(128)	Name of the queue
QUEUE_TABLE	VARCHAR(128)	Name of the queue table
QID	NUMBER	Object number of the queue
QUEUE_TYPE	VARCHAR(20)	Type of the queue - EXCEPTION_QUEUE - NON_PERSISTENT_QUEUE - NORMAL_QUEUE
MAX_RETRIES	NUMBER	Maximum number of retries allowed when dequeuing from the queue
RETRY_DELAY	NUMBER	Time interval between retries
ENQUEUE_ENABLED	VARCHAR(3)	Indicates whether the queue is enabled for enqueue (YES) or not (NO)
DEQUEUE_ENABLED	VARCHAR(3)	Indicates whether the queue is enabled for dequeue (YES) or not (NO)
RETENTION	VARCHAR(256)	Time interval (in seconds) processed messages are retained in the queue, or FOREVER
USER_COMMENT	VARCHAR(100)	User specified comment

- See also

[DBA_QUEUES](#)

[USER_QUEUES](#)

3.2.56. ALL_QUEUE_SUBSCRIBERS

Shows the list of subscribers that the current user has privilege to dequeue from.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the queue

Column Name	Data Type	Description
QUEUE_NAME	VARCHAR(128)	Name of the queue
QUEUE_TABLE	VARCHAR(128)	Name of the queue table on which the queue is defined
CONSUMER_NAME	VARCHAR(128)	Name of the subscriber
ADDRESS	VARCHAR(1024)	Address of the subscriber
PROTOCOL	NUMBER	Protocol of the subscriber
TRANSFORMATION	VARCHAR(0)	Transformation for the subscriber
RULE	VARCHAR(0)	Rule condition for the subscriber
DELIVERY_MODE	CHAR(10)	Message delivery mode for the subscriber
IF_NON DURABLE_SUB SCRIBER	CHAR(2)	Indicates whether the subscriber is a non-durable subscriber (YES) or not (NO)
QUEUE_TO_QUEUE	CHAR(5)	Indicates whether the subscriber is a queue-to-queue subscriber (TRUE) or not (FALSE)

- See also

[DBA_QUEUE_SUBSCRIBERS](#)

[USER_QUEUE_SUBSCRIBERS](#)

3.2.57. ALL_QUEUE_TABLES

Describes the queues in the queue tables accessible to the current user.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the queue table
QUEUE_TABLE	VARCHAR(128)	Name of the queue table
TYPE	VARCHAR(6)	Type of user data - RAW: Raw type - OBJECT: User-defined object type

Column Name	Data Type	Description
OBJECT_TYPE	VARCHAR(0)	Object type of the payload when TYPE is OBJECT
SORT_ORDER	VARCHAR(22)	User-specified sort order
RECIPIENTS	VARCHAR(8)	SINGLE or MULTIPLE recipients
MESSAGE_GROUP ING	VARCHAR(13)	NONE or TRANSACTIONAL
PRIMARY_INSTANCE	NUMBER	Indicates the instance number of the instance which is the primary owner of the queue table. A value of 0 indicates that there is no primary owner
SECONDARY_IN STANCE	NUMBER	Indicates the instance number of the instance which is the secondary owner of the queue table. This instance becomes the owner of the queue table if the primary owner is not alive. A value of 0 indicates that there is no secondary owner
OWNER_INSTANCE	NUMBER	Instance number of the instance which currently owns the queue table
USER_COMMENT	VARCHAR(100)	User specified comment

- See also

[DBA_QUEUE_TABLES](#)

[USER_QUEUE_TABLES](#)

3.2.58. ALL_RECYCLEBIN

Displays information of all temporarily deleted objects that the current user can access.

- Columns

Column Name	Data Type	Description
OBJECT_NAME	VARCHAR(128)	Current name of the object
ORIGINAL_NAME	VARCHAR(128)	Original name of the object
TYPE	VARCHAR(7)	Type of the object - Table

Column Name	Data Type	Description
		- Index - Trigger
TS_NAME	VARCHAR(128)	Name of the tablespace containing the object
CREATETIME	VARCHAR(19)	Timestamp for the object creation
DROPTIME	VARCHAR(19)	Timestamp for the object deletion
DROPTSN	NUMBER	TSN of the transaction which dropped the object
BASE_OBJECT	VARCHAR(256)	Object ID of the base object
SPACE	VARCHAR(0)	Number of blocks used by the object

- See also

[DBA_RECYCLEBIN](#)

[USER_RECYCLEBIN](#)

3.2.59. ALL_SCHEDULER_CHAINS

Displays all scheduler chains that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
CHAIN_NAME	VARCHAR2(30)	Name of the chain
RULE_SET_NAME	VARCHAR2(30)	This column is for future use.
EVALUATION_INTERVAL	INTERVAL	This column is for future use.
ENABLED	VARCHAR(5)	Status of the chain (enabled or disabled)
COMMENTS	VARCHAR2(240)	Comments on the chain

- See also

[DBA_SCHEDULER_CHAINS](#)

[USER_SCHEDULER_CHAINS](#)

3.2.60. ALL_SCHEDULER_JOBS

Displays all scheduler jobs that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
JOB_NAME	VARCHAR2(30)	Name of the job
JOB_SUBNAME	VARCHAR2(30)	Subname of the job (for a job in chain)
JOB_STYLE	VARCHAR2(11)	This column is for future use.
JOB_CREATOR	VARCHAR2(30)	This column is for future use.
CLIENT_ID	VARCHAR2(64)	This column is for future use.
GLOBAL_UID	VARCHAR2(32)	This column is for future use.
PROGRAM_OWNER	VARCHAR2(128)	This column is for future use.
PROGRAM_NAME	VARCHAR2(30)	This column is for future use.
JOB_TYPE	VARCHAR2(16)	Job action type: - PSM_BLOCK - CHAIN
JOB_ACTION	VARCHAR2(4000)	Job action
NUMBER_OF_ARGUMENTS	NUMBER	This column is for future use.
SCHEDULE_OWNER	VARCHAR2(4000)	This column is for future use.
SCHEDULE_NAME	VARCHAR2(4000)	This column is for future use.
SCHEDULE_TYPE	VARCHAR2(12)	This column is for future use.
START_DATE	TIMESTAMP(6)	Start date of the job

Column Name	Data Type	Description
REPEAT_INTERVAL	VARCHAR2(4000)	Cron expression
EVENT_QUEUE_OWNER	VARCHAR2(30)	This column is for future use.
EVENT_QUEUE_NAME	VARCHAR2(30)	This column is for future use.
EVENT_QUEUE_AGENT	VARCHAR2(256)	This column is for future use.
EVENT_CONDITION	VARCHAR2(4000)	This column is for future use.
EVENT_RULE	VARCHAR2(65)	This column is for future use.
FILE_WATCHER_OWNER	VARCHAR2(65)	This column is for future use.
FILE_WATCHER_NAME	VARCHAR2(65)	This column is for future use.
END_DATE	TIMESTAMP(6)	Date after which the job will no longer run
JOB_CLASS	VARCHAR2(30)	This column is for future use.
ENABLED	VARCHAR2(5)	Indicates whether the job is enabled (TRUE) or not (FALSE)
AUTO_DROP	VARCHAR2(5)	This column is for future use.
RESTARTABLE	VARCHAR2(5)	This column is for future use.
STATE	VARCHAR2(15)	This column is for future use.
JOB_PRIORITY	NUMBER	This column is for future use.
RUN_COUNT	NUMBER	This column is for future use.
MAX_RUNS	NUMBER	This column is for future use.
FAILURE_COUNT	NUMBER	This column is for future use.
MAX_FAILURES	NUMBER	This column is for future use.
RETRY_COUNT	NUMBER	This column is for future use.
LAST_START_DATE	TIMESTAMP(6)	This column is for future use.

Column Name	Data Type	Description
LAST_RUN_DURATION	INTERVAL	This column is for future use.
NEXT_RUN_DATE	TIMESTAMP(6)	This column is for future use.
SCHEDULE_LIMIT	INTERVAL	This column is for future use.
MAX_RUN_DURATION	INTERVAL	This column is for future use.
LOGGING_LEVEL	VARCHAR2(11)	This column is for future use.
STOP_ON_WINDOW_CLOSE	VARCHAR2(5)	This column is for future use.
INSTANCE_STICKINESS	VARCHAR2(5)	This column is for future use.
RAISE_EVENTS	VARCHAR2(4000)	This column is for future use.
SYSTEM	VARCHAR2(5)	This column is for future use.
JOB_WEIGHT	NUMBER	This column is for future use.
NLS_ENV	VARCHAR2(4000)	This column is for future use.
SOURCE	VARCHAR2(128)	This column is for future use.
NUMBER_OF_DESTINATIONS	NUMBER	This column is for future use.
DESTINATION_OWNER	VARCHAR2(128)	This column is for future use.
DESTINATION	VARCHAR2(128)	This column is for future use.
CREDENTIAL_OWNER	VARCHAR2(30)	This column is for future use.
CREDENTIAL_NAME	VARCHAR2(30)	This column is for future use.
INSTANCE_ID	NUMBER	ID of the instance (for TAC)
DEFERRED_DROP	VARCHAR2(5)	This column is for future use.
ALLOW_RUNS_IN_RESTRICTED_MODE	VARCHAR2(5)	This column is for future use.
COMMENTS	VARCHAR2(240)	Comments on the job

Column Name	Data Type	Description
FLAGS	NUMBER	This column is for internal use.
JOB_ID	NUMBER	This column is for internal use.
CHAIN_NAME	VARCHAR2(30)	This column is for internal use.
STEP_NAME	VARCHAR2(30)	This column is for internal use.
CTX_ID	NUMBER	This column is for internal use.

- See also

[DBA_SCHEDULER_JOBS](#)

[USER_SCHEDULER_JOBS](#)

3.2.61. ALL_SCHEDULER_JOB_LOG

Displays all scheduler job log that the current user can access.

- Columns

Column Name	Data Type	Description
LOG_ID	NUMBER	ID of the log
LOG_DATE	TIMESTAMP(6)	Date of the logging
OWNER	VARCHAR2(4000)	Owner of this logging
JOB_NAME	VARCHAR2(4000)	Name of the job for this log
JOB_SUBNAME	VARCHAR2(4000)	Subname of the job for this log
JOB_CLASS	VARCHAR2(30)	Class of the job for this log
OPERATION	VARCHAR2(256)	The job operation
STATUS	VARCHAR2(30)	The status of job
USER_NAME	VARCHAR2(65)	The name of job
CLIENT_ID	VARCHAR2(65)	The id of client
GLOBAL_UID	VARCHAR2(32)	The global id of client

Column Name	Data Type	Description
CREDENTIAL_OWNER	VARCHAR2(32)	The credential owner
CREDENTIAL_NAME	VARCHAR2(32)	The credential name
DESTINATION_OWNER	VARCHAR2(128)	The destination owner
DESTINATION	VARCHAR2(128)	The destination
ADDITIONAL_INFO	CLOB	additional information of this log.

- See also

[DBA_SCHEDULER_JOB_LOG](#)

[USER_SCHEDULER_JOB_LOG](#)

3.2.62. ALL_SCHEDULER_JOB_RUN_DETAILS

Displays all scheduler job run details that the current user can access.

- Columns

Column Name	Data Type	Description
LOG_ID	NUMBER	ID of the log
LOG_DATE	TIMESTAMP(6)	Date of the logging
OWNER	VARCHAR2(4000)	Owner of this logging
JOB_NAME	VARCHAR2(4000)	Name of the job for this log
JOB_SUBNAME	VARCHAR2(4000)	Subname of the job for this log
JOB_CLASS	VARCHAR2(30)	Class of the job for this log
OPERATION	VARCHAR2(256)	The job operation
STATUS	VARCHAR2(30)	The status of job
USER_NAME	VARCHAR2(65)	The name of job
CLIENT_ID	VARCHAR2(65)	The id of client

Column Name	Data Type	Description
GLOBAL_UID	VARCHAR2(32)	The global id of client
CREDENTIAL_OWNER	VARCHAR2(32)	The credential owner
CREDENTIAL_NAME	VARCHAR2(32)	The credential name
DESTINATION_OWNER	VARCHAR2(128)	The destination owner
DESTINATION	VARCHAR2(128)	The destination
ADDITIONAL_INFO	CLOB	additional information of this log.

- See also

[DBA_SCHEDULER_JOB_RUN_DETAILS](#)

[USER_SCHEDULER_JOB_RUN_DETAILS](#)

3.2.63. ALL_SCHEDULER_PROGRAMS

Displays all scheduler programs that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
PROGRAM_NAME	VARCHAR2(128)	Name of the program
PROGRAM_TYPE	VARCHAR2(16)	Type of the program - PSM_BLOCK
PROGRAM_ACTION	VARCHAR2(4000)	Program action
NUMBER_OF_ARGUMENTS	NUMBER	This column is for future use.
ENABLED	VARCHAR2(5)	Indicates whether the program is enabled (TRUE) or not (FALSE)
DETACHED	VARCHAR2(5)	This column is for future use.

Column Name	Data Type	Description
SCHEDULE_LIMIT	INTERVAL	This column is for future use.
PRIORITY	NUMBER	This column is for future use.
WEIGHT	NUMBER	This column is for future use.
MAX_RUNS	NUMBER	This column is for future use.
MAX_FAILURES	NUMBER	This column is for future use.
MAX_RUN_DURATION	INTERVAL	This column is for future use.
NLS_ENV	VARCHAR2(4000)	This column is for future use.
COMMENTS	VARCHAR2(240)	Comments on the program

- See also

[DBA_SCHEDULER_PROGRAMS](#)

[USER_SCHEDULER_PROGRAMS](#)

3.2.64. ALL_SCHEDULER_RULES

Displays all scheduler rules that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
CHAIN_NAME	VARCHAR2(30)	Name of the chain
CONDITION	VARCHAR2(4000)	Condition of the rule
ACTION	VARCHAR2(4000)	Action of the rule
RULE_NAME	VARCHAR2(30)	Name of the rule
COMMENTS	VARCHAR2(240)	Comments on the rule

- See also

[DBA_SCHEDULER_RULES](#)

[USER_SCHEDULER_RULES](#)

3.2.65. ALL_SCHEDULER_RULE_CTX

Displays all scheduler rule ctx that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
CHAIN_NAME	VARCHAR2(30)	Name of the chain
CONDITION	VARCHAR2(4000)	Condition of the rule
ACTION	VARCHAR2(4000)	Action of the rule
RULE_NAME	VARCHAR2(30)	Name of the rule
CTX_ID	NUMBER	ID of the context (for internal use)

- See also

[DBA_SCHEDULER_RULE_CTX](#)

[USER_SCHEDULER_RULE_CTX](#)

3.2.66. ALL_SCHEDULER_RUNNING_JOBS

Displays all scheduler running jobs that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
JOB_NAME	VARCHAR2(30)	Name of the job
JOB_SUBNAME	VARCHAR2(30)	Subname of the job (for a job in chain)
JOB_STYLE	VARCHAR2(11)	This column is for future use.

Column Name	Data Type	Description
JOB_CREATOR	VARCHAR2(30)	This column is for future use.
CLIENT_ID	VARCHAR2(64)	This column is for future use.
GLOBAL_UID	VARCHAR2(32)	This column is for future use.
PROGRAM_OWNER	VARCHAR2(128)	This column is for future use.
PROGRAM_NAME	VARCHAR2(30)	This column is for future use.
JOB_TYPE	VARCHAR2(16)	Job action type: - PSM_BLOCK - CHAIN
JOB_ACTION	VARCHAR2(4000)	Job action
NUMBER_OF_ARGUMENTS	NUMBER	This column is for future use.
SCHEDULE_OWNER	VARCHAR2(4000)	This column is for future use.
SCHEDULE_NAME	VARCHAR2(4000)	This column is for future use.
SCHEDULE_TYPE	VARCHAR2(12)	This column is for future use.
START_DATE	TIMESTAMP(6)	Start date of the job
REPEAT_INTERVAL	VARCHAR2(4000)	Cron expression
EVENT_QUEUE_OWNER	VARCHAR2(30)	This column is for future use.
EVENT_QUEUE_NAME	VARCHAR2(30)	This column is for future use.
EVENT_QUEUE_AGENT	VARCHAR2(256)	This column is for future use.
EVENT_CONDITION	VARCHAR2(4000)	This column is for future use.
EVENT_RULE	VARCHAR2(65)	This column is for future use.
FILE_WATCHER_OWNER	VARCHAR2(65)	This column is for future use.
FILE_WATCHER_NAME	VARCHAR2(65)	This column is for future use.
END_DATE	TIMESTAMP(6)	Date after which the job will no longer run

Column Name	Data Type	Description
JOB_CLASS	VARCHAR2(30)	This column is for future use.
ENABLED	VARCHAR2(5)	Indicates whether the job is enabled (TRUE) or not (FALSE)
AUTO_DROP	VARCHAR2(5)	This column is for future use.
RESTARTABLE	VARCHAR2(5)	This column is for future use.
STATE	VARCHAR2(15)	This column is for future use.
JOB_PRIORITY	NUMBER	This column is for future use.
RUN_COUNT	NUMBER	This column is for future use.
MAX_RUNS	NUMBER	This column is for future use.
FAILURE_COUNT	NUMBER	This column is for future use.
MAX_FAILURES	NUMBER	This column is for future use.
RETRY_COUNT	NUMBER	This column is for future use.
LAST_START_DATE	TIMESTAMP(6)	This column is for future use.
LAST_RUN_DURATION	INTERVAL	This column is for future use.
NEXT_RUN_DATE	TIMESTAMP(6)	This column is for future use.
SCHEDULE_LIMIT	INTERVAL	This column is for future use.
MAX_RUN_DURATION	INTERVAL	This column is for future use.
LOGGING_LEVEL	VARCHAR2(11)	This column is for future use.
STOP_ON_WINDOW_CLOSE	VARCHAR2(5)	This column is for future use.
INSTANCE_STICKINESS	VARCHAR2(5)	This column is for future use.
RAISE_EVENTS	VARCHAR2(4000)	This column is for future use.
SYSTEM	VARCHAR2(5)	This column is for future use.
JOB_WEIGHT	NUMBER	This column is for future use.

Column Name	Data Type	Description
NLS_ENV	VARCHAR2(4000)	This column is for future use.
SOURCE	VARCHAR2(128)	This column is for future use.
NUMBER_OF_DESTINATIONS	NUMBER	This column is for future use.
DESTINATION_OWNER	VARCHAR2(128)	This column is for future use.
DESTINATION	VARCHAR2(128)	This column is for future use.
CREDENTIAL_OWNER	VARCHAR2(30)	This column is for future use.
CREDENTIAL_NAME	VARCHAR2(30)	This column is for future use.
INSTANCE_ID	NUMBER	ID of the instance (for TAC)
DEFERRED_DROP	VARCHAR2(5)	This column is for future use.
ALLOW_RUNS_IN_RESTRICTED_MODE	VARCHAR2(5)	This column is for future use.
COMMENTS	VARCHAR2(240)	Comments on the job
FLAGS	NUMBER	This column is for internal use.
JOB_ID	NUMBER	This column is for internal use.
CHAIN_NAME	VARCHAR2(30)	This column is for internal use.
STEP_NAME	VARCHAR2(30)	This column is for internal use.
CTX_ID	NUMBER	This column is for internal use.

- See also

[DBA_SCHEDULER_RUNNING_JOBS](#)

[USER_SCHEDULER_RUNNING_JOBS](#)

3.2.67. ALL_SCHEDULER_SCHEDULES

Displays all scheduler schedules that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
SCHEDULE_NAME	VARCHAR2(128)	Name of the schedule
SCHEDULE_TYPE	VARCHAR2(16)	Type of the schedule
REPEAT_INTERVAL	VARCHAR2(4000)	Cron expression
EVENT_QUEUE_OWNER	VARCHAR2(30)	This column is for future use.
EVENT_QUEUE_NAME	VARCHAR2(30)	This column is for future use.
EVENT_QUEUE_AGENT	VARCHAR2(256)	This column is for future use.
EVENT_CONDITION	VARCHAR2(4000)	This column is for future use.
FILE_WATCHER_OWNER	VARCHAR2(65)	This column is for future use.
FILE_WATCHER_NAME	VARCHAR2(65)	This column is for future use.
END_DATE	TIMESTAMP(6)	Date after which the job will no longer run
COMMENTS	VARCHAR2(240)	Comments on the program

- See also

[DBA_SCHEDULER_SCHEDULES](#)

[USER_SCHEDULER_SCHEDULES](#)

3.2.68. ALL_SCHEDULER_STEPS

Displays all scheduler steps that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
CHAIN_NAME	VARCHAR2(30)	Name of the chain

Column Name	Data Type	Description
STEP_NAME	VARCHAR2(30)	Name of the step
PROGRAM_NAME	VARCHAR2(30)	Name of the program
COMMENTS	VARCHAR2(240)	Comments on the step

- See also

[DBA_SCHEDULER_STEPS](#)

[USER_SCHEDULER_STEPS](#)

3.2.69. ALL_SCHEDULER_STEP_CTX

Displays all scheduler step context the current user can access.

- Columns

Column Name	Data Type	Description
OWNER_ID	NUMBER	ID of the owner
CHAIN_NAME	VARCHAR2(30)	Name of the chain
STEP_NAME	VARCHAR2(30)	Name of the step
CTX_ID	NUMBER	This column is for internal use.
JOB_ID	NUMBER	ID of the job
INSTANCE_ID	NUMBER	ID of the instance (for TAC)
COMPLETED	VARCHAR2(5)	State of the step context (completed or not)
STATE	VARCHAR2(16)	State of the step context
START_DATE	TIMESTAMP(6)	This column is for internal use.
END_DATE	TIMESTAMP(6)	This column is for internal use.
ERROR_CODE	NUMBER	This column is for internal use.
DURATION	INTERVAL	This column is for future use.

- See also

[DBA_SCHEDULER_STEP_CTX](#)

[USER_SCHEDULER_STEP_CTX](#)

3.2.70. ALL_SEGMENTS

Displays all segments that the current user can access.

- Columns

Column Name	Data Type	Description
SEGMENT_NAME	VARCHAR(128)	Name of the segment
PARTITION_NAME	VARCHAR(128)	Partition number of the object (Set to NULL for non-partitioned objects)
SEGMENT_TYPE	VARCHAR(18)	Type of the segment - TABLE - TABLE PARTITION - TABLE SUBPARTITION - LOB - INDEX - INDEX PARTITION - INDEX SUBPARTITION - LOB - LOB PARTITION - LOB SUBPARTITION - UNDO
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace containing the segment
HEADER_FILE	NUMBER	ID of the file containing the segment header
HEADER_BLOCK	NUMBER	ID of the block containing the segment header
BLOCKS	NUMBER	Size of the segment in blocks

Column Name	Data Type	Description
EXTENTS	NUMBER	Size of the segment in extents
RELATIVE_FNO	NUMBER	Relative file number of the segment header
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
MAX_EXTENTS	NUMBER	Maximum number of extents that the segment can use
BYTES	NUMBER	Size of segment in bytes
INITIAL_EXTENT	NUMBER	Size in bytes requested for the initial extent of the segment
NEXT_EXTENT	NUMBER	Size in bytes of the next extent to be allocated to the segment

- See also

[DBA_SEGMENTS](#)

[USER_SEGMENTS](#)

3.2.71. ALL_SEQUENCES

Displays all sequences that the current user can access.

- Columns

Column Name	Data Type	Description
SEQUENCE_OWNER	VARCHAR(128)	Owner of the sequence
SEQUENCE_NAME	VARCHAR(128)	Name of the sequence
MIN_VALUE	NUMBER	Minimum value of the sequence
MAX_VALUE	NUMBER	Maximum value of the sequence
INCREMENT_BY	NUMBER	Increment value of the sequence

Column Name	Data Type	Description
CYCLE_FLAG	VARCHAR(1)	Whether the sequence is reused when the maximum value is reached - Y - N - E
ORDER_FLAG	CHAR(1)	Whether sequences are generated in order - Y
IF_AVAIL	VARCHAR(1)	Whether the last value is readable - Y - N - E
CACHE_SIZE	NUMBER	The number of cached sequences
LAST_NUMBER	NUMBER	Last sequence number to be written to disk

- See also

[DBA_SEQUENCES](#)

[USER_SEQUENCES](#)

3.2.72. ALL_SOURCE

Displays source texts of the stored objects that the current user can access such as procedures, functions, package bodies, or triggers.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
NAME	VARCHAR(128)	Name of the object
TYPE	VARCHAR(12)	Type of the object - PROCEDURE

Column Name	Data Type	Description
		- FUNCTION - PACKAGE - PACKAGE BODY - TRIGGER - TYPE - TYPE BODY - UNDEFINED
LINE	NUMBER	Line number of the source
TEXT	VARCHAR(4000)	Source text

- See also

[DBA_SOURCE](#)

[USER_SOURCE](#)

3.2.73. ALL_SUBPART_KEY_COLUMNS

Displays subpartitioning key columns of the partitioned tables or indexes that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the partitioned table or index
NAME	VARCHAR(128)	Name of the partitioned table or index
OBJECT_TYPE	VARCHAR(5)	Type of the object - TABLE - INDEX
COLUMN_NAME	VARCHAR(128)	Name of the column
COLUMN_POSITION	NUMBER	Position of the column within the subpartitioning key

- See also

[DBA_SUBPART_KEY_COLUMNS](#)

[USER_SUBPART_KEY_COLUMNS](#)

3.2.74. ALL_SYNONYMS

Displays all synonyms that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the synonym
SYNONYM_NAME	VARCHAR(128)	Name of the synonym
ORG_OBJECT_OWNER	VARCHAR(128)	Owner of the object to which the synonym refers
ORG_OBJECT_NAME	VARCHAR(257)	Name of the object to which the synonym refers

- See also

[DBA_SYNONYMS](#)

[USER_SYNONYMS](#)

3.2.75. ALL_TABLES

Displays all tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace that contains the table
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter

Column Name	Data Type	Description
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
NUM_ROWS	NUMBER	The number of rows within the table
BLOCKS	NUMBER	The number of data blocks containing information about the table
AVG_ROW_LEN	NUMBER	Average length of rows within the table (in bytes)
DEGREE	NUMBER	The number of threads used for table scanning
SAMPLE_SIZE	NUMBER	Size of the sample used for analyzing statistics for the table
LAST_ANALYZED	DATE	Date of the most recent analysis for the table
PARTITIONED	VARCHAR(3)	Whether partitioning is used or not - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the partition - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - ADVANCED - BASIC - NULL
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE

Column Name	Data Type	Description
ROW_MOVEMENT	VARCHAR(8)	Whether or not partitioned row movement is enabled - ENABLED - DISABLED
DURATION	VARCHAR(11)	Retention period of the temporary table - SESSION: Rows are preserved during the session period - TRANSACTION: Rows are deleted at every commit
COMPRESSION	VARCHAR(3)	Whether or not the table has been compressed - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the table - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - ADVANCED - NULL
DROPPED	VARCHAR(3)	Whether or not the table has been dropped - YES - NO
READ_ONLY	VARCHAR(3)	Whether or not the table is in read-only mode - YES - NO
TEMPORARY	VARCHAR(3)	Whether or not the table is temporary - YES - NO

Column Name	Data Type	Description
IOT_TYPE	VARCHAR(12)	If the table is an index-organized table, the IOT_TYPE is IOT or IOT_OVERFLOW. If the table is not an index-organized table, the IOT_TYPE is NULL - IOT - IOT_OVERFLOW - NULL
MAX_EXTENTS	NUMBER	Maximum number of extents that the table can use
INITIAL_EXTENT	NUMBER	Size in bytes of the initial extent
NEXT_EXTENT	NUMBER	Size in bytes of the next extent to be allocated to the table
MIN_EXTENTS	NUMBER	Minimum number of extents that the table can use
IS_VIRTUAL	VARCHAR(1)	Whether or not the table is virtual

- See also

[DBA_TABLES](#)

[USER_TABLES](#)

3.2.76. ALL_TAB_COLS

Synonym for ALL_TBL_COLS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table or view
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column
DATA_LENGTH	NUMBER	Column length (in bytes)

Column Name	Data Type	Description
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column
DATA_DEFAULT	LONG	Default value of the column
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)
NUM_NULLS	NUMBER	(Not supported)
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column
HIDDEN_COLUMN	VARCHAR(1)	(Not supported)
SEGMENT_COL UMN_ID	NUMBER	(Not supported)
INTERNAL_COL UMN_ID	NUMBER	(Not supported)
QUALI FIED_COL_NAME	VARCHAR(4000)	(Not supported)
OBJ_ID	NUMBER	ID of the object

- See also

[ALL_TBL_COLS](#)

[DBA_TAB_COLS](#)

[DBA_TBL_COLS](#)

[USER_TAB_COLS](#)

[USER_TBL_COLS](#)

3.2.77. ALL_TAB_COLUMNS

Synonym for ALL_TBL_COLUMNS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table or view
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column
DATA_TYPE_OWNER	VARCHAR(128)	Owner of the datatype of the column
DATA_LENGTH	NUMBER	Column length (in bytes)
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column
DATA_DEFAULT	LONG	Default value of the column
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)

Column Name	Data Type	Description
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column
OBJ_ID	NUMBER	ID of the object

- See also

[ALL_TBL_COLUMNS](#)

[ALL_TBL_COLUMNS_WITH_DNO](#)

[DBA_TAB_COLUMNS](#)

[DBA_TBL_COLUMNS](#)

[USER_TAB_COLUMNS](#)

[USER_TBL_COLUMNS](#)

3.2.78. ALL_TAB_COL_STATISTICS

Synonym for ALL_TBL_COL_STATISTICS.

- Columns

Column Name	Data Type	Description
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
NUM_DISTINCT	NUMBER	The number of distinct values
LOW_VALUE	VARCHAR(4000)	The lowest value in the column

Column Name	Data Type	Description
HIGH_VALUE	VARCHAR(4000)	The highest value in the column
DENSITY	NUMBER	Density of the column
NUM_NULLS	NUMBER	The number of NULL values
NUM_BUCKETS	NUMBER	The number of buckets for the histogram
LAST_ANALYZED	DATE	Date of the most recent analysis for the column
SAMPLE_SIZE	NUMBER	Size of the sample used for analyzing statistics for the column
AVG_COL_LEN	NUMBER	Average length of the column (in bytes)
HISTOGRAM	VARCHAR(15)	Indicates the type of histogram

- See also

[ALL_TBL_COL_STATISTICS](#)

[DBA_TAB_COL_STATISTICS](#)

[DBA_TBL_COL_STATISTICS](#)

[USER_TAB_COL_STATISTICS](#)

[USER_TBL_COL_STATISTICS](#)

3.2.79. ALL_TAB_COMMENTS

Displays comments on the tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
TABLE_TYPE	VARCHAR(9)	Type of the object
COMMENTS	VARCHAR(4000)	Comment on the object

- See also

[ALL_TBL_COMMENTS](#)

[DBA_TAB_COMMENTS](#)

[DBA_TBL_COMMENTS](#)

3.2.80. ALL_TAB_HISTOGRAMS

Synonym for ALL_TBL_HISTOGRAMS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
ENDPOINT_NUMBER	NUMBER	History bucket number
ENDPOINT_VALUE	NUMBER	End point value of the current bucket
ENDPOINT_ACTUAL_VALUE	VARCHAR(4000)	Actual string value of the end point value of the current bucket

- See also

[ALL_TBL_HISTOGRAMS](#)

[DBA_TAB_HISTOGRAMS](#)

[DBA_TBL_HISTOGRAMS](#)

[USER_TAB_HISTOGRAMS](#)

[USER_TBL_HISTOGRAMS](#)

3.2.81. ALL_TAB_IDENTITY_COLS

Displays identity columns of all tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the identity column
GENERATION_TYPE	VARCHAR(10)	Generation type of the identity column
SEQUENCE_NAME	VARCHAR(128)	Name of the sequence associated with the identity column
IDENTITY_OPTIONS	VARCHAR(298)	Options for the identity column sequence generator

- See also

[DBA_TAB_IDENTITY_COLS](#)

[USER_TAB_IDENTITY_COLS](#)

3.2.82. ALL_TAB_PARTITIONS

Synonym for ALL_TBL_PARTITIONS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
TABLE_NAME	VARCHAR(128)	Name of the table
COMPOSITE	VARCHAR(3)	Whether or not the partition belongs to a composite-partitioned table - YES - NO
PARTITION_NAME	VARCHAR(128)	Name of the table partition
SUBPARTITION_COUNT	NUMBER	The number of subpartitions which belong to the partition
BOUND	LONG	Partition bound value
PARTITION_NO	NUMBER	Partition number within the table

Column Name	Data Type	Description
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
COMPRESSION	VARCHAR(3)	Whether or not the table partition has been compressed - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the partition - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - NULL
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
NUM_ROWS	NUMBER	The number of rows within the table partition
BLOCKS	NUMBER	The number of data blocks containing information about the table partition
LAST_ANALYZED	DATE	Date of the most recent analysis for the table partition
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO

- See also

[ALL_TBL_PARTITIONS](#)

[DBA_TAB_PARTITIONS](#)

[DBA_TBL_PARTITIONS](#)

[USER_TAB_PARTITIONS](#)

[USER_TBL_PARTITIONS](#)

3.2.83. ALL_TAB_PRIVS

Synonym for ALL_TBL_PRIVS.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with GRANT OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TBL_PRIVS](#)

[DBA_TAB_PRIVS](#)

[DBA_TBL_PRIVS](#)

[USER_TAB_PRIVS](#)

3.2.84. ALL_TAB_PRIVS_MADE

Synonym for ALL_TBL_PRIVS_MADE.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Name of the object owner
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TBL_PRIVS_MADE](#)

[USER_TAB_PRIVS_MADE](#)

[USER_TBL_PRIVS_MADE](#)

3.2.85. ALL_TAB_PRIVS_RECD

Synonym for ALL_TBL_PRIVS_RECD.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the object owner
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TBL_PRIVS_REC'D](#)

3.2.86. ALL_TAB_SUBPARTITIONS

Synonym for ALL_TBL_SUBPARTITIONS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
TABLE_NAME	VARCHAR(128)	Name of the table
PARTITION_NAME	VARCHAR(128)	Name of the table partition
SUBPARTITION_NAME	VARCHAR(128)	Name of the table subpartition
BOUND	LONG	Subpartition bound value
SUBPARTITION_NO	NUMBER	Subpartition number within the partition
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the subpartition belongs

Column Name	Data Type	Description
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
COMPRESSION	VARCHAR(3)	Whether or not the table partition has been compressed - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the table subpartition - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - ADVANCED - NULL
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
MAX_TRANS	NUMBER	Maximum number of transactions allowed
INITIAL_EXTENT	NUMBER	Size of the initial extent
MIN_EXTENT	NUMBER	Minimum number of extents allowed in the segment
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
NUM_ROWS	NUMBER	The number of rows within the table subpartition

Column Name	Data Type	Description
LAST_ANALYZED	DATE	Date of the most recent analysis for the table subpartition

- See also

[ALL_TBL_SUBPARTITIONS](#)

[DBA_TAB_SUBPARTITIONS](#)

[DBA_TBL_SUBPARTITIONS](#)

3.2.87. ALL_TBL_COLS

Displays column information of all tables and views that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table or view
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column
DATA_LENGTH	NUMBER	Column length (in bytes)
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column
DATA_DEFAULT	LONG	Default value of the column
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)
NUM_NULLS	NUMBER	(Not supported)

Column Name	Data Type	Description
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column
HIDDEN_COLUMN	VARCHAR(1)	(Not supported)
SEGMENT_COL UMN_ID	NUMBER	(Not supported)
INTERNAL_COL UMN_ID	NUMBER	(Not supported)
QUALI FIED_COL_NAME	VARCHAR(4000)	(Not supported)
OBJ_ID	NUMBER	ID of the object

- See also

[ALL_TAB_COLS](#)

[DBA_TAB_COLS](#)

[DBA_TBL_COLS](#)

[USER_TAB_COLS](#)

[USER_TBL_COLS](#)

3.2.88. ALL_TBL_COLUMNS

Displays column information of all tables and views that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table or view

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column
DATA_TYPE_OWNER	VARCHAR(128)	Owner of the datatype of the column
DATA_LENGTH	NUMBER	Column length (in bytes)
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column
DATA_DEFAULT	LONG	Default value of the column
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column
OBJ_ID	NUMBER	ID of the object

- See also

[ALL_TAB_COLUMNS](#)

[ALL_TBL_COLUMNS_WITH_DNO](#)

[DBA_TAB_COLUMNS](#)

[DBA_TBL_COLUMNS](#)

[USER_TAB_COLUMNS](#)

[USER_TBL_COLUMNS](#)

3.2.89. ALL_TBL_COLUMNS_WITH_DNO

Displays column information of all tables and views, which the current user can access, with data type number of the column.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table or view
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column
DATA_TYPE_NO	NUMBER	Data type number of the column
DATA_TYPE_OWNER	VARCHAR(128)	Owner of the datatype of the column
DATA_LENGTH	NUMBER	Column length (in bytes)
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column
DATA_DEFAULT	LONG	Default value of the column

Column Name	Data Type	Description
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column
OBJ_ID	NUMBER	ID of the object

- See also

[ALL_TAB_COLUMNS](#)

[ALL_TBL_COLUMNS](#)

[DBA_TAB_COLUMNS](#)

[DBA_TBL_COLUMNS](#)

[USER_TAB_COLUMNS](#)

[USER_TBL_COLUMNS](#)

3.2.90. ALL_TBL_COL_STATISTICS

Displays statistics and a histogram of columns by extracting them from ALL_TBL_COLUMNS.

- Columns

Column Name	Data Type	Description
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
NUM_DISTINCT	NUMBER	The number of distinct values

Column Name	Data Type	Description
LOW_VALUE	VARCHAR(4000)	The lowest value in the column
HIGH_VALUE	VARCHAR(4000)	The highest value in the column
DENSITY	NUMBER	Density of the column
NUM_NULLS	NUMBER	The number of NULL values
NUM_BUCKETS	NUMBER	The number of buckets for the histogram
LAST_ANALYZED	DATE	Date of the most recent analysis for the column
SAMPLE_SIZE	NUMBER	Size of the sample used for analyzing statistics for the column
AVG_COL_LEN	NUMBER	Average length of the column (in bytes)
HISTOGRAM	VARCHAR(15)	Indicates the type of histogram

- See also

[ALL_TAB_COL_STATISTICS](#)

[DBA_TAB_COL_STATISTICS](#)

[DBA_TBL_COL_STATISTICS](#)

[USER_TAB_COL_STATISTICS](#)

[USER_TBL_COL_STATISTICS](#)

3.2.91. ALL_TBL_COMMENTS

Synonym for ALL_TAB_COMMENTS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
TABLE_TYPE	VARCHAR(9)	Type of the object
COMMENTS	VARCHAR(4000)	Comment on the object

- See also

[ALL_TAB_COMMENTS](#)

[DBA_TAB_COMMENTS](#)

[DBA_TBL_COMMENTS](#)

3.2.92. ALL_TBL_HISTOGRAMS

Displays histogram information of tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
ENDPOINT_NUMBER	NUMBER	History bucket number
ENDPOINT_VALUE	NUMBER	End point value of the current bucket
ENDPOINT_ACTUAL_VALUE	VARCHAR(4000)	Actual string value of the end point value of the current bucket

- See also

[ALL_TAB_HISTOGRAMS](#)

[DBA_TAB_HISTOGRAMS](#)

[DBA_TBL_HISTOGRAMS](#)

[USER_TAB_HISTOGRAMS](#)

[USER_TBL_HISTOGRAMS](#)

3.2.93. ALL_TBL_PARTITIONS

Displays partition information of all tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
TABLE_NAME	VARCHAR(128)	Name of the table
COMPOSITE	VARCHAR(3)	Whether or not the partition belongs to a composite-partitioned table - YES - NO
PARTITION_NAME	VARCHAR(128)	Name of the table partition
SUBPARTITION_COUNT	NUMBER	The number of subpartitions which belong to the partition
BOUND	LONG	Partition bound value
PARTITION_NO	NUMBER	Partition number within the table
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
COMPRESSION	VARCHAR(3)	Whether or not the table partition has been compressed - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the partition - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - NULL
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool

Column Name	Data Type	Description
		- DEFAULT - KEEP - RECYCLE
NUM_ROWS	NUMBER	The number of rows within the table partition
BLOCKS	NUMBER	The number of data blocks containing information about the table partition
LAST_ANALYZED	DATE	Date of the most recent analysis for the table partition
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO

- See also

[ALL_TAB_PARTITIONS](#)

[DBA_TAB_PARTITIONS](#)

[DBA_TBL_PARTITIONS](#)

[USER_TAB_PARTITIONS](#)

[USER_TBL_PARTITIONS](#)

3.2.94. ALL_TBL_PRIVS

Displays tables for which the current user or public user is granted object privileges.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege

Column Name	Data Type	Description
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with GRANT OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TAB_PRIVS](#)

[DBA_TAB_PRIVS](#)

[DBA_TBL_PRIVS](#)

[USER_TAB_PRIVS](#)

[USER_TBL_PRIVS](#)

3.2.95. ALL_TBL_PRIVS_MADE

Displays object privileges granted on tables for which the current user or public user is the object owner or grantor.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Name of the object owner
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES

Column Name	Data Type	Description
		- NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TAB_PRIVS_MADE](#)

[USER_TAB_PRIVS_MADE](#)

[USER_TBL_PRIVS_MADE](#)

3.2.96. ALL_TBL_PRIVS_RECD

Displays object privileges granted on tables for which the current user or public user is the object grantee.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Name of the object owner
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TAB_PRIVS_RECD](#)

3.2.97. ALL_TBL_SUBPARTITIONS

Displays subpartitions of all tables that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
TABLE_NAME	VARCHAR(128)	Name of the table
PARTITION_NAME	VARCHAR(128)	Name of the table partition
SUBPARTITION_NAME	VARCHAR(128)	Name of the table subpartition
BOUND	LONG	Subpartition bound value
SUBPARTITION_NO	NUMBER	Subpartition number within the partition
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the subpartition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
COMPRESSION	VARCHAR(3)	Whether or not the table partition has been compressed - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the table subpartition - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - ADVANCED - NULL

Column Name	Data Type	Description
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
MAX_TRANS	NUMBER	Maximum number of transactions allowed
INITIAL_EXTENT	NUMBER	Size of the initial extent
MIN_EXTENT	NUMBER	Minimum number of extents allowed in the segment
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
NUM_ROWS	NUMBER	The number of rows within the table subpartition
LAST_ANALYZED	DATE	Date of the most recent analysis for the table subpartition

- See also

[ALL_TAB_SUBPARTITIONS](#)

[DBA_TAB_SUBPARTITIONS](#)

[DBA_TBL_SUBPARTITIONS](#)

3.2.98. ALL_TRIGGERS

Displays all triggers that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the trigger
TRIGGER_NAME	VARCHAR(128)	Name of the trigger
TRIGGER_TYPE	VARCHAR(16)	When the trigger is enabled - BEFORE STATEMENT

Column Name	Data Type	Description
		- BEFORE EACH ROW - AFTER STATEMENT - AFTER EACH ROW
TRIGGERING_EVENT	VARCHAR(52)	Event that activates the trigger
TABLE_OWNER	VARCHAR(128)	Owner of the table where the trigger is defined
TABLE_NAME	VARCHAR(128)	Name of the table where the trigger is defined
REFERENC ING_NAMES	VARCHAR(422)	Name to which the trigger refers to read OLD and NEW column values
WHEN_CLAUSE	LONG	Conditions that should be evaluated before the trigger is enabled
STATUS	VARCHAR(8)	Whether or not the trigger is enabled

- See also

[DBA_TRIGGERS](#)

[USER_TRIGGERS](#)

3.2.99. ALL_TRIGGER_COLS

Displays column information of all triggers that the current user can access and all triggers on tables that the current user can access.

- Columns

Column Name	Data Type	Description
TRIGGER_OWNER	VARCHAR(128)	Owner of the trigger
TRIGGER_NAME	VARCHAR(128)	Name of the trigger
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column

Column Name	Data Type	Description
COLUMN_LIST	VARCHAR(3)	Whether or not the column is used in UPDATE OF clause (Yes/No)
COLUMN_USAGE	VARCHAR(17)	Column usage in the trigger

- See also

[DBA_TRIGGER_COLS](#)

[USER_TRIGGER_COLS](#)

3.2.100. ALL_TYPES

Displays all types that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
TYPE_NAME	VARCHAR(128)	Name of this type
TYPE_OID	RAW(16)	Object identifier (OID) of this type
TYPECODE	VARCHAR(10)	Typecode of this type
ATTRIBUTES	NUMBER	The number of attributes for this type
METHODS	NUMBER	The number of methods for this type
PREDEFINED	VARCHAR(3)	Indicates whether this type is predefined (Not supported)
INCOMPLETE	VARCHAR(3)	Indicates whether this type is incomplete (Not supported)
FINAL	VARCHAR(3)	Indicates whether this type is final
INSTANTIABLE	VARCHAR(3)	Indicates whether this type is instantiable
SUPERTYPE_OWNER	VARCHAR(128)	Owner of this supertype
SUPERTYPE_NAME	VARCHAR(128)	Name of this supertype
LOCAL_ATTRIBUTES	VARCHAR(256)	The number of local attributes

Column Name	Data Type	Description
LOCAL_METHODS	VARCHAR(256)	The number of the local methods
TYPEID	RAW(8)	TYPEID of this type

- See also

[DBA_TYPES](#)

[USER_TYPES](#)

3.2.101. ALL_TYPE_ATTRS

Displays all the attributes that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
TYPE_NAME	VARCHAR(128)	Name of this type
ATTR_NAME	VARCHAR(128)	Name of this attribute
ATTR_TYPE_MOD	VARCHAR(7)	Modifier of this attribute type (not supported)
ATTR_TYPE_OWNER	VARCHAR(128)	Owner of this attribute type
ATTR_TYPE_NAME	VARCHAR(128)	Name of this attribute type
LENGTH	NUMBER	Length of this type (not supported)
PRECISION	NUMBER	Precision of this type
SCALE	NUMBER	Scale of this type
CHARACTER_SET_NAME	VARCHAR(128)	Name of the Character set (not supported)
ATTR_NO	NUMBER	Attribute number
INHERITED	VARCHAR(3)	Indicates whether this is inherited

- See also

[DBA_TYPE_ATTRS](#)

[USER_TYPE_ATTRS](#)

3.2.102. ALL_TYPE_METHODS

Displays all the methods of this type that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of this type
TYPE_NAME	VARCHAR(128)	Name of this type
METHOD_NAME	VARCHAR(128)	Name of this method
METHOD_NO	NUMBER	Method number for this method (not supported)
METHOD_TYPE	VARCHAR(11)	Type of this method
PARAMETERS	NUMBER	The number of parameters
RESULTS	VARCHAR(3)	Indicates whether this method has results to return.
FINAL	VARCHAR(3)	Indicates whether this method is final. (not supported)
INSTANTIABLE	VARCHAR(3)	Indicates whether this method is instantiable. (not supported)
OVERRIDING	VARCHAR(3)	Indicates whether this method is overriding a supertype method. (not supported)
INHERITED	VARCHAR(3)	Indicates whether this is inherited from a supertype method. (not supported)
STATIC	VARCHAR(3)	Indicates whether this method is static.
CONSTRUCTOR	VARCHAR(3)	Indicates whether this method is constructor.

- See also

[DBA_TYPE_METHODS](#)

[USER_TYPE_METHODS](#)

3.2.103. ALL_UPDATABLE_COLUMNS

Displays all join view columns that the current user can update.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
UPDATABLE	VARCHAR(3)	Whether or not the column is updatable - YES - NO
INSERTABLE	VARCHAR(3)	Whether or not the column is insertable - YES - NO
DELETABLE	VARCHAR(3)	Whether or not column is deletable - YES - NO

- See also

[DBA_UPDATABLE_COLUMNS](#)

[USER_UPDATABLE_COLUMNS](#)

3.2.104. ALL_USERS

Displays all users that the current user can view.

- Columns

Column Name	Data Type	Description
USERNAME	VARCHAR(128)	Name of the user
USER_ID	NUMBER	ID of the user

Column Name	Data Type	Description
CREATED	DATE	Date that the user was created

- See also

[DBA_USERS](#)

[USER_USERS](#)

3.2.105. ALL_VIEWS

Displays all views that the current user can access.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the view
VIEW_NAME	VARCHAR(128)	Name of the view
TEXT	LONG	Definition of the view

- See also

[ALL_VIEWS_INTERNAL](#)

[DBA_VIEWS](#)

[USER_VIEWS](#)

3.2.106. ALL_VIEWS_INTERNAL

Displays all views that the current user can access. (including views that can be accessed by the roles)

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the view
VIEW_NAME	VARCHAR(128)	Name of the view
OBJ_ID	NUMBER	ID of the view

- See also

[ALL_VIEWS](#)

[DBA_VIEWS](#)

[USER_VIEWS](#)

3.2.107. CTX_PREFERENCES

Displays preferences created by Tiberio users, as well as all the system-defined preferences.

- Columns

Column Name	Data Type	Description
PRE_OWNER	VARCHAR(128)	Username of preference owner
PRE_NAME	VARCHAR(30)	Preference name
PRE_CLASS	VARCHAR(30)	Preference class
PRE_OBJECT	VARCHAR(30)	Object used

3.2.108. CTX_PREFERENCE_VALUES

Displays the values assigned to all the preferences in the Text data dictionary.

- Columns

Column Name	Data Type	Description
PRV_OWNER	VARCHAR(128)	Username of preference owner
PRV_PREFERENCE	VARCHAR(30)	Preference name
PRV_ATTRIBUTE	VARCHAR(30)	Attribute name
PRV_VALUE	VARCHAR(500)	Attribute value

3.2.109. DATABASE_PROPERTIES

Displays database properties.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(128)	Name of the property
VALUE	VARCHAR(80)	Value of the property
COMMENT_STR	VARCHAR(4000)	Description of the property

3.2.110. DBA_2PC_NEIGHBORS

Displays connection information for pending transactions.

- Columns

Column Name	Data Type	Description
LOCAL_TRAN_ID	VARCHAR(65532)	ID of the transaction
IN_OUT	NUMBER	Connection status - IN: Incoming connection - OUT: Outgoing connection
DATABASE	VARCHAR(128)	Name of the database - IN: Client database name - OUT: Database link name
DBUSER_OWNER	VARCHAR(128)	Name of the owner - IN: Name of the user who accesses the database - OUT: Owner of the database link
INTERFACE	VARCHAR(1)	Type of the interface - C: Commit point site - N: Non-commit point site

3.2.111. DBA_2PC_PENDING

Displays pending transaction information.

- Columns

Column Name	Data Type	Description
LOCAL_TRAN_ID	VARCHAR(65532)	ID of the transaction
XID	VARCHAR(550)	XID
STATUS	VARCHAR(15)	Status of the XA transaction

3.2.112. DBA_AUDIT_POLICIES

Displays all fine-grained auditing policies in the database.

- Columns

Column Name	Data Type	Description
OBJECT_SCHEMA	VARCHAR(128)	Owner of the table or view
OBJECT_NAME	VARCHAR(128)	Name of the table or view
POLICY_OWNER	VARCHAR(128)	Owner of the policy
POLICY_NAME	VARCHAR(128)	Name of the policy
POLICY_TEXT	VARCHAR(4000)	Audit condition
POLICY_COLUMN	VARCHAR(128)	Relevant column
PF_SCHEMA	VARCHAR(128)	Owner of the audit handler function
PF_PACKAGE	VARCHAR(128)	Name of the package containing the audit handler function
PF_FUNCTION	VARCHAR(128)	Name of the audit handler function
ENABLED	VARCHAR(3)	Indicates whether the policy is enabled (YES) or disabled (NO)
SEL	VARCHAR(3)	Indicates whether the policy is applied to queries on the object (YES) or not (NO)

Column Name	Data Type	Description
INS	VARCHAR(3)	Indicates whether the policy is applied to INSERT statements on the object (YES) or not (NO)
UPD	VARCHAR(3)	Indicates whether the policy is applied to UPDATE statements on the object (YES) or not (NO)
DEL	VARCHAR(3)	Indicates whether the policy is applied to DELETE statements on the object (YES) or not (NO)
AUDIT_TRAIL	VARCHAR(12)	Indicates the audit trail to which the audit records generated by this audit policy will be written: 1. DB - Audit records are written to DBA_FGA_AUDIT_TRAIL 2. DB+EXTENDED - Audit records are written to DBA_FGA_AUDIT_TRAIL and the SQL_TEXT and SQL_BIND columns are populated for this policy 3. XML - Audit records are written to V\$XML_AUDIT_TRAIL 4. XML+EXTENDED - Audit records are written to V\$XML_AUDIT_TRAIL and the SQL_TEXT and SQL_BIND columns are populated for this policy
POLICY_OPTIONS	VARCHAR(11)	Indicates whether all columns in the AUDIT_COLUMN parameter (ALL_COLUMNS) or any of the columns in the AUDIT_COLUMN parameter (ANY_COLUMNS) are considered for triggering fine-grained auditing

3.2.113. DBA_AUDIT_TRAIL

Displays audit trails within the database.

- Columns

Column Name	Data Type	Description
OS_USERNAME	VARCHAR(128)	Operating system user name who was set to be audited
USERNAME	VARCHAR(128)	Name of the user who was set to be audited
USERHOST	VARCHAR(21)	Name of the host machine from which the client has connected
TIMESTAMP	VARCHAR(19)	Audit trail-created time

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object associated with the audited action
OBJ_NAME	VARCHAR(128)	Name of the object associated with the audited action
SESSIONID	NUMBER	Session ID
SERIALNO	NUMBER	Sequence number of the session
ENTRYID	NUMBER	Sequence number for each audit trail in the session
STATEMENTID	NUMBER	ID of the executed statement
PRIV_USED	VARCHAR(80)	Name of the privilege used to execute the audited action
CLIENT_ID	VARCHAR(30)	Client identifier
INSTANCE_NUMBER	NUMBER	Instance number of RDBMS which performed the action
OS_PROCESS	VARCHAR(16)	Process ID of RDBMS
TRANSACTIONID	VARCHAR(65532)	Transaction ID that participated in the audited action
TSN	NUMBER	TSN of the audited action
SQL_TEXT	LONG	SQL of the audited action

- See also

[USER_AUDIT_TRAIL](#)

3.2.114. DBA_CATALOG

Displays all tables, views, synonyms, and sequences in the database.

- See also

[ALL_CATALOG](#)

[USER_CATALOG](#)

3.2.115. DBA_COLL_TYPES

Displays all the collection types.

- See also

[ALL_COLL_TYPES](#)

[USER_COLL_TYPES](#)

3.2.116. DBA_COL_COMMENTS

Displays comments on all columns in the database.

- See also

[ALL_COL_COMMENTS](#)

[USER_COL_COMMENTS](#)

3.2.117. DBA_COL_PRIVS

Displays object privileges of all columns of the database.

- See also

[ALL_COL_PRIVS](#)

[USER_COL_PRIVS](#)

3.2.118. DBA_CONSTRAINTS

Displays integrity constraints defined in the database table.

- See also

[ALL_CONSTRAINTS](#)

[USER_CONSTRAINTS](#)

3.2.119. DBA_CONS_COLUMNS

Displays the columns for which the database integrity constraint is specified.

- See also

[ALL_CONS_COLUMNS](#)

[USER_CONS_COLUMNS](#)

3.2.120. DBA_DATAFILES

Synonym for DBA_DATA_FILES.

- Columns

Column Name	Data Type	Description
FILE_NAME	VARCHAR(256)	Name of the data file
FILE_ID	NUMBER	ID of the data file
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace where the data file is contained.
BYTES	NUMBER	Size of the data file in bytes
BLOCKS	NUMBER	Size of the data file in blocks
STATUS	CHAR(9)	Status of the data file - AVAILABLE
RELATIVE_FNO	NUMBER	Relative data file number
AUTOEXTENSIBLE	VARCHAR(3)	Auto extensible indicator - YES - NO
MAXBYTES	NUMBER	Maximum data file size in bytes
MAXBLOCKS	NUMBER	Maximum data file size in blocks
INCREMENT_BY	NUMBER	Auto increment value

- See also

[DBA_DATA_FILES](#)

3.2.121. DBA_DATA_FILES

Displays data file information.

- Columns

Column Name	Data Type	Description
FILE_NAME	VARCHAR(256)	Name of the data file
FILE_ID	NUMBER	ID of the data file
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace where the data file is contained.
BYTES	NUMBER	Size of the data file in bytes
BLOCKS	NUMBER	Size of the data file in blocks
STATUS	CHAR(9)	Status of the data file - AVAILABLE
RELATIVE_FNO	NUMBER	Relative data file number
AUTOEXTENSIBLE	VARCHAR(3)	Auto extensible indicator - YES - NO
MAXBYTES	NUMBER	Maximum data file size in bytes
MAXBLOCKS	NUMBER	Maximum data file size in blocks
INCREMENT_BY	NUMBER	Auto increment value

- See also

[DBA_DATAFILES](#)

3.2.122. DBA_DB_LINKS

Displays information for all database links.

- See also

[ALL_DB_LINKS](#)

[USER_DB_LINKS](#)

3.2.123. DBA_DDL_LOCKS

displays information about DDL locks.

- Columns

Column Name	Data Type	Description
SESS_ID	NUMBER	ID of the thread that owns the Lock(the same as SID)
OWNER	VARCHAR(128)	Owner of the object
NAME	VARCHAR(128)	Name of the object
TYPE	VARCHAR(25)	Type of the lock
MODE_HELD	VARCHAR(30)	Mode that the Lock owner owns. - None - Row-Shared(RS) - Row-Exclusive(RX) - Shared(S) - Shared-Row-Exclusive(SRX) - Exclusive(X) - Pin (Special mode for TX-wait)
MODE_REQUESTED	VARCHAR(30)	Mode that the Lock waiter requests

3.2.124. DBA_DEPENDENCIES

Displays dependencies of all objects.

- See also

[ALL_DEPENDENCIES](#)

[USER_DEPENDENCIES](#)

3.2.125. DBA_DIRECTORIES

Displays all directories in the database.

- See also

[ALL_DIRECTORIES](#)

3.2.126. DBA_DML_LOCKS

displays information about DML locks.

- Columns

Column Name	Data Type	Description
SESS_ID	NUMBER	ID of the thread that owns the Lock(the same as SID)
OWNER	VARCHAR(128)	Owner of the object
NAME	VARCHAR(128)	Name of the object
MODE_HELD	VARCHAR(30)	Mode that the Lock owner owns. - None - Row-Shared(RS) - Row-Exclusive(RX) - Shared(S) - Shared-Row-Exclusive(SRX) - Exclusive(X) - Pin (Special mode for TX-wait)
MODE_REQUESTED	VARCHAR(30)	Mode that the Lock waiter requests
LAST_CONVERT	NUMBER	The amount of elapsed time (in seconds) in current mode
BLOCKING_OTHERS	VARCHAR(12)	Whether the Lock is blocking any other session. - Blocking: the Lock is blocking a session. - Non Blocking: the Lock is not blocking any session.

3.2.127. DBA_ENCRYPTED_COLUMNS

Displays information of all encrypted columns in the database. The columns are the same as those in ALL_ENCRYPTED_COLUMNS.

- See also

[ALL_ENCRYPTED_COLUMNS](#)

[USER_ENCRYPTED_COLUMNS](#)

3.2.128. DBA_ERRORS

Displays the recent errors on every view, procedure, function, package, package body, trigger, library, and java object in the database. The columns are the same as those in ALL_ERRORS.

- See also

[ALL_ERRORS](#)

[USER_ERRORS](#)

3.2.129. DBA_EXTENTS

Displays information of the extents contained in the segments of all the tablespaces in the database.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the segment containing the extent
SEGMENT_NAME	VARCHAR(128)	Name of the segment containing the extent
PARTITION_NAME	VARCHAR(128)	Partition name of the object (Null value for non-partitioned objects)
SEGMENT_TYPE	VARCHAR(18)	Type of the segment
TABLESPACE_NAME	VARCHAR(30)	Name of the tablespace containing the extent
EXTENT_ID	NUMBER	ID of the extent
FILE_ID	NUMBER	ID of the file containing the extent
BLOCK_ID	NUMBER	Starting block number of the extent

Column Name	Data Type	Description
BYTES	NUMBER	Size of the extent in bytes
BLOCKS	NUMBER	Size of the extent in blocks
RELATIVE_FNO	NUMBER	Relative file number of the extent

- See also

[USER_EXTENTS](#)

3.2.130. DBA_EXTERNAL_LOCATIONS

Displays all external table locations in the database.

- See also

[ALL_EXTERNAL_LOCATIONS](#)

[USER_EXTERNAL_LOCATIONS](#)

3.2.131. DBA_EXTERNAL_TABLES

Displays all external tables in the database.

- See also

[ALL_EXTERNAL_TABLES](#)

[USER_EXTERNAL_TABLES](#)

3.2.132. DBA_FGA_AUDIT_TRAIL

Displays TODO. TODO

3.2.133. DBA_FREE_SPACE

Displays information of the extents that all tablespaces can use.

- Columns

Column Name	Data Type	Description
TABSPACE_NAME	VARCHAR(128)	Name of the tablespace containing the extent
FILE_ID	NUMBER	ID of the file containing the extent
BLOCK_ID	NUMBER	Starting block number of the extent
BYTES	NUMBER	Size of the extent in bytes
BLOCKS	NUMBER	Size of the extent in blocks
RELATIVE_FNO	NUMBER	Relative file number of the extent

- See also

[USER_FREE_SPACE](#)

3.2.134. DBA_HIST_ACTIVE_SESS_HISTORY

Displays history information on active sessions.

- Columns

Column Name	Data Type	Description
SANP_ID	NUMBER	Snap ID
SAMPLE_ID	NUMBER	Sample ID
THREAD#	NUMBER	Thread#
SAMPLE_TIME	DATE	Sample Time
SESSION_ID	NUMBER	Session ID
SESS_SERIAL_NO	NUMBER	A serial number of a session
USER_NO	NUMBER	The user's ID
WAIT_EVENT	NUMBER	Type of the wait event which the session waits
TIME_WAITED	NUMBER	The amount of time waited for this event (msec)
SQL_ID	VARCHAR(13)	SQL identifier
SQL_CHILD_NUMBER	NUMBER	The number of this child physical plan

Column Name	Data Type	Description
CURR_HASHVAL	NUMBER	SQL hash value
MODULE_NAME	VARCHAR(64)	Name of a module specified by dbms_application_info.set_module
ACTION_NAME	VARCHAR(64)	Name of an action specified by dbms_application_info.set_module/action
CLIENT_INFO_NAME	VARCHAR(64)	Name of client_info specified by dbms_application_info.set_client_info
PROG_NAME	VARCHAR(30)	Client program name
SQL_EXEC_START	DATE	The time when the execution started.
SQL_EXEC_ID	NUMBER	Execution identifier. It is necessary to identify multiple simultaneous SQL executions. To identify a single SQL execution, three columns; SQL_ID, SQL_EXEC_START, and SQL_EXEC_ID must be defined. The three column values are used to match with corresponding rows in the V\$SQL_MONITOR.
SQL_PLAN_LINE_ID	NUMBER	Identifier of the plan operation
ID1	NUMBER	First Parameter
ID2	NUMBER	Second Parameter
WE_SEQ	NUMBER	Sequence# of the Wait Event
USGMT_ID	NUMBER	USGMT number at the time of sampling
SLOTNO	NUMBER	Slot number at the time of sampling
WRAPNO	NUMBER	Wrap number at the time of sampling
PORT	NUMBER	Client port number
DELTA_TIME	NUMBER	Time interval (in seconds) since the last time this session was sampled or created.
DELTA_PHY_READ_BLKs	NUMBER	The number of blocks read from disk over the last DELTA_TIME seconds

Column Name	Data Type	Description
DELTA_LOG_READ_BKLS	NUMBER	The number of blocks read over the last DELTA_TIME seconds
PGA_SIZE	NUMBER	The amount of PGA memory consumed by this session
WAIT_OBJ_ID	NUMBER	ID of the object which the session waits
WAIT_FILE_NO	NUMBER	Number of the file which the session waits
WAIT_BLOCK_NO	NUMBER	Number of the block which the session waits
WAIT_ROW_NO	NUMBER	Number of the row which the session waits
WAIT_EVENT_NAME	VARCHAR(40)	Name of wait_event

3.2.135. DBA_HIST_FILESTAT

Displays historical statistics of data file and temp file I/O. This view includes snapshots of V\$ALL_FILESTAT.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
FILE#	NUMBER	File number
PHYRDS	NUMBER	The number of read operations performed
PHYWRTS	NUMBER	The number of write operations performed
READTIM	NUMBER	Time spent on read operations (msec)
WRITETIM	NUMBER	Time spent on write operations (msec)
PHYBLKRD	NUMBER	The number of blocks read
PHYBLKWRT	NUMBER	The number of blocks written

3.2.136. DBA_HIST_LATCH

Displays the historical information on spinlocks. This view includes snapshots of V\$LATCH.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
LATCH#	NUMBER	Spinlock number
GETS	NUMBER	The number of times a spinlock was acquired
MISSES	NUMBER	The number of times the requester had to wait for a spinlock
SLEEPS	NUMBER	The number of times the requester was put to sleep while waiting for a spinlock
IMMEDIATE_GETS	NUMBER	The number of times a trylock was acquired
IMMEDIATE_MISSES	NUMBER	The number of times the requester failed to acquire a trylock
SPIN_GETS	NUMBER	The number of times the requester failed to acquire a spinlock but succeeded in gaining a spin
WAIT_TIME	NUMBER	The total sleep time of spinlock
SLEEPS_CNT	NUMBER	The number of actual sleep count while waiting for a spinlock

3.2.137. DBA_HIST_LIBRARYCACHE

Displays information of PP cache and DD cache. This view includes snapshots of V\$LIBRARYCACHE.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot

Column Name	Data Type	Description
NAMESPACE	VARCHAR(16)	Name of the table
GETS	NUMBER	Cache total access count
GETHITS	NUMBER	Cache hit count

3.2.138. DBA_HIST_OSSTAT

Displays historical information on various OS statistics. This view includes snapshots of V\$OSSTAT2.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
STAT_ID	NUMBER	Identifier of OS statistics
VALUE	NUMBER	OS statistics value

3.2.139. DBA_HIST_PGASTAT

Displays the historical statistics of PGA. This view includes the snapshot of V\$PGASTAT.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
NAME	VARCHAR(64)	Name of a PGA statistics
VALUE	NUMBER	Value of the PGA statistics
SNAP_TIME	DATE	Snapshot time of PGA statistics

3.2.140. DBA_HIST_PROCESS_MEM_SUMMARY

Displays historical information on PGA memory usage. This view gets information from V\$PROCESS.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot.
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
NUM_PROCESSES	NUMBER	Number of processes
NON_ZERO_USES	NUMBER	Number of processes with non-zero memory usage
USED_TOTAL	NUMBER	Total size of local memory occupied
USED_AVG	NUMBER	Average size of local memory occupied
USED_STDDEV	NUMBER	Standard deviation of local memory occupied
USED_MAX	NUMBER	Maximum size of local memory occupied

3.2.141. DBA_HIST_SEG_STAT

Displays historical information of segment-level statistics. This view includes snapshots of V\$SEGMENT_STATISTICS.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
OBJ_ID	NUMBER	Object ID
STATISTICS#	NUMBER	Segment statistics type
STATISTICS_NAME	VARCHAR(64)	Name of the segment statistics
VALUE	NUMBER	Value of the segment statistics

3.2.142. DBA_HIST_SGASTAT

Displays the historical information on the shared pool for a database. This view includes snapshots of V\$SGASTAT.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
NAME	VARCHAR(40)	Purpose for which shared pool is used
SIZE	NUMBER	Usage of shared pool

3.2.143. DBA_HIST_SNAPSHOT

Displays information about TPR snapshots.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
BEGIN_INTER VAL_TIME	DATE	Start time of a snapshot interval
END_INTERVAL_TIME	DATE	End time of a snapshot interval

3.2.144. DBA_HIST_SQLBIND

Displays DBA_HIST_SQLBIND displays historical information on bind variables used by SQL cursors. This view contains snapshots of V\$SQL_BIND_CAPTURE.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot

Column Name	Data Type	Description
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
SQL_HASH_VALUE	NUMBER	The Hash value of the sql
PLAN_HASH_VALUE	NUMBER	The Hash value of the physical plan
SQL_ID	VARCHAR(13)	The SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
USER_ID	NUMBER	The user id that performed the SQL
NAME	VARCHAR(128)	The name of the bind variable
POSITION	NUMBER	The position of the bind variable in the SQL
TYPE	NUMBER	The type number of the bind variable
TYPE_NAME	VARCHAR(128)	The type of the bind variable
PRECISION	NUMBER	The precision of the bind variable
SCALE	NUMBER	The scale of the bind variable
LENGTH	NUMBER	The length of the bind variable
TIME_CAPTURED	DATE	The time when the bind variable was captured
IS_FIRST	VARCHAR(4)	Whether or not the first value of the bind variable was captured
VALUE	VARCHAR(32413)	The value of the bind variable

3.2.145. DBA_HIST_SQLSTAT

Displays historical information for SQL statistics. This view displays the priority of items of specific criteria.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot

Column Name	Data Type	Description
SQL_HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
LAST_ACTIVE_TIME	DATE	Last time that statistics were collected
PARSE_CALLS	NUMBER	The number of parsing requests
FETCHES	NUMBER	The number of fetching times
EXECUTIONS	NUMBER	The number of times for executing an SQL statement
BUFFER_GETS	NUMBER	Total number of buffers read in Consistent-Read mode
ROWS_PROCESSED	NUMBER	Total number of processed rows
ELAPSED_TIME	NUMBER	Total execution time (in microseconds)
DISK_READ_TIME	NUMBER	Total disk read time
TEMP_SGMT_READ_TIME	NUMBER	Total temp segment read time
TEMP_SGMT_WRITE_TIME	NUMBER	Total temp segment write time

3.2.146. DBA_HIST_SQLTEXT

Displays historical information about texts of SQL statements.

- Columns

Column Name	Data Type	Description
SQL_HASH_VALUE	NUMBER	Hash value of the SQL statement
SQL_TEXT	VARCHAR(64)	Text of an SQL statement split into 64-byte texts
COMMAND_TYPE	NUMBER	Number code of SQL statement type 1 - SELECT 2 - INSERT 3 - UPDATE 4 - DELETE 5 - MERGE 6 - CALL

3.2.147. DBA_HIST_SQL_PLAN

Displays historical information about SQL execution plans. This view includes snapshots of V\$SQL_PLAN.

- Columns

Column Name	Data Type	Description
SQL_HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
ID	NUMBER	Number given to each job of the physical plan
OPERATION	VARCHAR(128)	Name of operation job
OBJECT_ID	NUMBER	Identifier of object accessed by the job
OBJECT_OWNER	VARCHAR(128)	Name of user to whom the object belongs
OBJECT_NAME	VARCHAR(128)	Object name
OBJECT_TYPE	VARCHAR(20)	Object type
PARENT_ID	NUMBER	ID of a job to get the output of the current job of the physical plan as input
DEPTH	NUMBER	Tree level of the physical plan
POSITION	NUMBER	Positions between all the jobs with the same PARENT_ID
COST	NUMBER	Job cost estimated by query optimizer
CARDINALITY	NUMBER	The number of output results estimated by query optimizer
PARTITION_START	VARCHAR(38)	In a partitioned table, the start partition for access
PARTITION_STOP	VARCHAR(38)	In a partitioned table, the end partition for access
OTHER	VARCHAR(4000)	Other information specific to the execution step that may be useful -Database link information -Dynamic sampling block count for table scans or index scans
CPU_COST	NUMBER	CPU cost of the operation as estimated by query optimizer

Column Name	Data Type	Description
IO_COST	NUMBER	I/O cost of the operation as estimated by query optimizer
ACCESS_PREDICATES	VARCHAR(4000)	Predicate information to access indexes or to handle joins
FILTER_PREDICATES	VARCHAR(4000)	Predicate information to handle filters

3.2.148. DBA_HIST_SQL_WORKAREA_HSTGRM

Displays historical information about work areas used by SQL cursors. This view includes snapshots of V\$SQL_WORKAREA_HISTOGRAM.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
LOW_OPTIMAL_SIZE	NUMBER	The lower bounding value (in bytes) for the optimal size
HIGH_OPTIMAL_SIZE	NUMBER	The higher bounding value (in bytes) for the optimal size
OPTIMAL_EXECUTIONS	NUMBER	The number of work areas that were executed in optimal mode within each LOW_OPTIMAL_SIZE and HIGH_OPTIMAL_SIZE bound
ONEPASS_EXECUTIONS	NUMBER	The number of work areas that were executed in onepass mode within each LOW_OPTIMAL_SIZE and HIGH_OPTIMAL_SIZE bound
MULTIPASSES_EXECUTIONS	NUMBER	The number of work areas that were executed in multi pass mode within each LOW_OPTIMAL_SIZE and HIGH_OPTIMAL_SIZE bound
TOTAL_EXECUTIONS	NUMBER	The total number of work areas that were excuted within each LOW_OPTIMAL_SIZE and HIGH_OPTIMAL_SIZE bound

3.2.149. DBA_HIST_SYSMETRIC_SUMMARY

Displays a history of statistical summary of all metric values in the System Metrics Long Duration group.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
THREAD#	NUMBER	Thread#
BEGIN_TIME	DATE	Begin Time of the Sample
END_TIME	DATE	End Time of the Sample
GROUP_ID	NUMBER	Group ID
METRIC_ID	NUMBER	Metric ID
METRIC_NAME	VARCHAR(64)	Metric Name
METRIC_UNIT	VARCHAR(64)	Descriptions of the Metric Unit
MINVAL	NUMBER	Minimum value observed
MINVAL	NUMBER	Maximum value observed
AVERAGE	NUMBER	Average over the period
STD	NUMBER	One standard deviation

3.2.150. DBA_HIST_SYSTEM_EVENT

Displays historical information of events performing in the system. This view includes snapshots of V\$SYSTEM_EVENT.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
EVENT_NUMBER	NUMBER	Event number

Column Name	Data Type	Description
TOTAL_WAITS	NUMBER	Total number of event calls
TIME_WAITED	NUMBER	The amount of time waited for this event (msec)
AVERAGE_WAIT	NUMBER	The average amount of time waited for this event (msec)
MAX_WAIT	NUMBER	The maximum amount of time waited for this event (msec)
TOTAL_TIMEOUTS	NUMBER	The number of times that a time-out occurred in an event

3.2.151. DBA_HIST_UNDOSTAT

Displays historical statistics of undo storage space. This view includes snapshots of V\$UNDOSTAT.

- Columns

Column Name	Data Type	Description
END_TIME	DATE	End time of statistics
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
SNAP_ID	NUMBER	Unique ID of a snapshot
UNDO_TSNO	NUMBER	Tablespace number
UNDOBLKS	NUMBER	The number of used undo blocks
TXCOUNT	NUMBER	Total number of executed transactions
MAXCONCURRENCY	NUMBER	The largest number of concurrently executed transactions
SNAP_TOO_OLD_CNT	NUMBER	The number of errors caused by failing to read old data
NOSPACEERRCNT	NUMBER	The number of errors caused by lack of undo storage space
ACTIVEBLKS	NUMBER	The number of blocks in use
UNEXPIREDBLKS	NUMBER	The number of non-reusable blocks
EXPIREDBLKS	NUMBER	The number of reusable blocks

3.2.152. DBA_HIST_WAITSTAT

Displays the statistical history of block wait events for each block type and class. This view includes snapshots of V\$WAITSTAT.

- Columns

Column Name	Data Type	Description
SNAP_ID	NUMBER	Unique ID of a snapshot
INSTANCE_NUMBER	NUMBER	Instance number of the snapshot
CLASS	VARCHAR(20)	Block class (Block type)
WAIT_COUNT	NUMBER	The number of times waiting for the block class
TIME	NUMBER	Total time spent waiting for the block class

3.2.153. DBA_IDX_COLUMNS

Displays index columns of all tables in the database.

- See also

[ALL_IDX_COLUMNS](#)

[ALL_IND_COLUMNS](#)

[DBA_IND_COLUMNS](#)

[USER_IDX_COLUMNS](#)

[USER_IND_COLUMNS](#)

3.2.154. DBA_IDX_EXPRESSIONS

Displays expressions on the index columns of all tables in the database.

- See also

[ALL_IDX_EXPRESSIONS](#)

[ALL_IND_EXPRESSIONS](#)

[DBA_IND_EXPRESSIONS](#)

[USER_IDX_EXPRESSIONS](#)

[USER_IND_EXPRESSIONS](#)

3.2.155. DBA_IDX_SUBPARTITIONS

Displays subpartitions of all indexes in the database.

- See also

[ALL_IDX_SUBPARTITIONS](#)

[ALL_IND_SUBPARTITIONS](#)

[DBA_IND_SUBPARTITIONS](#)

3.2.156. DBA_INDEXES

Displays indexes of all tables in the database.

- See also

[ALL_INDEXES](#)

[USER_INDEXES](#)

3.2.157. DBA_IND_COLUMNS

Synonym for DBA_IDX_COLUMNS.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
COLUMN_POSITION	NUMBER	Position of the column within the index

Column Name	Data Type	Description
COLUMN_LENGTH	NUMBER	Length of the column within the index
DESCEND	VARCHAR(4)	Sorting order in columns - DESC - ASC

- See also

[ALL_IDX_COLUMNS](#)

[ALL_IND_COLUMNS](#)

[DBA_IDX_COLUMNS](#)

[USER_IDX_COLUMNS](#)

[USER_IND_COLUMNS](#)

3.2.158. DBA_IND_EXPRESSIONS

Synonym for DBA_IDX_EXPRESSIONS.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_POSITION	NUMBER	Position of the column within the index
COLUMN_EXPRESSION	LONG	Expression of the column within the index

- See also

[ALL_IDX_EXPRESSIONS](#)

[ALL_IND_EXPRESSIONS](#)

[DBA_IDX_EXPRESSIONS](#)

[USER_IDX_EXPRESSIONS](#)

[USER_IND_EXPRESSIONS](#)

3.2.159. DBA_IND_SUBPARTITIONS

Synonym for DBA_IDX_SUBPARTITIONS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
INDEX_NAME	VARCHAR(128)	Name of the index
PARTITION_NAME	VARCHAR(128)	Name of the index partition
SUBPARTITION_NAME	VARCHAR(128)	Name of the index subpartition
BOUND	LONG	Subpartition bound value
SUBPARTITION_NO	NUMBER	Subpartition number
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the subpartition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP

Column Name	Data Type	Description
		- RECYCLE
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
NUM_ROWS	NUMBER	The number of rows in the index subpartition
LAST_ANALYZED	DATE	Date of the most recent analysis for the subpartition

- See also

[ALL_IDX_SUBPARTITIONS](#)

[ALL_IND_SUBPARTITIONS](#)

[DBA_IDX_SUBPARTITIONS](#)

3.2.160. DBA_JAVA_ARGUMENTS

Displays all parameters in the database.

- See also

[ALL_JAVA_ARGUMENTS](#)

[USER_JAVA_ARGUMENTS](#)

3.2.161. DBA_JAVA_CLASSES

Displays all classes in the database.

- See also

[ALL_JAVA_CLASSES](#)

[USER_JAVA_CLASSES](#)

3.2.162. DBA_JAVA_FIELDS

Displays all fields in the database.

- See also

[ALL_JAVA_FIELDS](#)

[USER_JAVA_FIELDS](#)

3.2.163. DBA_JAVA_METHODS

Displays all methods in the database.

- See also

[ALL_JAVA_METHODS](#)

[USER_JAVA_METHODS](#)

3.2.164. DBA_JOBS

Displays all jobs in the database.

- See also

[ALL_JOBS](#)

[USER_JOBS](#)

3.2.165. DBA_JOBS_WITH_NAME

Displays all jobs with job name in the database.

- See also

[ALL_JOBS_WITH_NAME](#)

[USER_JOBS_WITH_NAME](#)

3.2.166. DBA_LIBRARIES

Displays all libraries in the database.

- See also

[ALL_LIBRARIES](#)

[USER_LIBRARIES](#)

3.2.167. DBA_LOBS

Displays LOBs which belong to all tables in the database.

- See also

[ALL_LOBS](#)

[USER_LOBS](#)

3.2.168. DBA_LOB_PARTITIONS

Displays all LOB partitions in the database.

- See also

[ALL_LOB_PARTITIONS](#)

[USER_LOB_PARTITIONS](#)

3.2.169. DBA_LOB_SUBPARTITIONS

Displays all LOB subpartitions in the database.

- See also

[ALL_LOB_SUBPARTITIONS](#)

[USER_LOB_SUBPARTITIONS](#)

3.2.170. DBA_LOG_GROUPS

Displays the log group definitions on all tables in the database.

- See also

[ALL_LOG_GROUPS](#)

[USER_LOG_GROUPS](#)

3.2.171. DBA_LOG_GROUP_COLUMNS

Displays all columns in the database that are specified in log groups.

- See also

[ALL_LOG_GROUP_COLUMNS](#)

[USER_LOG_GROUP_COLUMNS](#)

3.2.172. DBA_METHOD_PARAMS

Displays the method parameters of this type.

- See also

[ALL_METHOD_PARAMS](#)

[USER_METHOD_PARAMS](#)

3.2.173. DBA_METHOD_RESULTS

Displays the result of the method of this type.

- See also

[ALL_METHOD_RESULTS](#)

[USER_METHOD_RESULTS](#)

3.2.174. DBA_MVIEWS

Displays all materialized views in the database. The columns are the same as those in ALL_MVIEWS.

- See also

[ALL_MVIEWS](#)

[USER_MVIEWS](#)

3.2.175. DBA_MVIEW_COMMENTS

Displays comments on all materialized views in the database. The columns are the same as those in ALL_MVIEW_COMMENTS.

- See also

[ALL_MVIEW_COMMENTS](#)

[USER_MVIEW_COMMENTS](#)

3.2.176. DBA_MVIEW_DETAIL_RELATIONS

Describes the named detail relations that are either specified in the FROM list of the subquery that defines all materialized views in the database, or that are indirectly referenced through views in that FROM list. Inline views in the materialized view definition are not represented in this view or the related views.

- See also

[ALL_MVIEW_DETAIL_RELATIONS](#)

[USER_MVIEW_REFRESH_TIMES](#)

3.2.177. DBA_MVIEW_LOGS

Displays all materialized view logs in the database. The columns are the same as those in ALL_MVIEW_LOGS.

- See also

[ALL_MVIEW_LOGS](#)

[USER_MVIEW_LOGS](#)

3.2.178. DBA_MVIEW_REFRESH_TIMES

Describes refresh times of all materialized views in the database.

- See also

[ALL_MVIEW_REFRESH_TIMES](#)

[USER_MVIEW_REFRESH_TIMES](#)

3.2.179. DBA_OBJECTS

Displays all objects in the database.

- See also

[ALL_OBJECTS](#)

[USER_OBJECTS](#)

3.2.180. DBA_OBJ_AUDIT_OPTS

Displays objects being audited in the database.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
OBJECT_NAME	VARCHAR(128)	Name of the object
OBJECT_TYPE	VARCHAR(9)	Type of the object - TABLE - VIEW - SEQUENCE - PROCEDURE - DIRECTORY - JAVA
ALT	VARCHAR(5)	ALTER auditing option for success or failure
DEL	VARCHAR(5)	DELETE auditing option for success or failure
IND	VARCHAR(5)	INDEX auditing option for success or failure
INS	VARCHAR(5)	INSERT auditing option for success or failure
LOC	VARCHAR(5)	LOCK auditing option for success or failure
SEL	VARCHAR(5)	SELECT auditing option for success or failure
UPD	VARCHAR(5)	UPDATE auditing option for success or failure
REF	VARCHAR(5)	REFERENCE auditing option for success or failure
EXE	VARCHAR(5)	EXECUTE auditing option for success or failure
REA	VARCHAR(5)	READ auditing option for success or failure
WRI	VARCHAR(5)	WRITE auditing option for success or failure

- See also

[USER_OBJ_AUDIT_OPTS](#)

3.2.181. DBA_PACKAGE_COLL_TYPES

Displays types of the package.

- See also

[ALL_PACKAGE_COLL_TYPES](#)

[USER_PACKAGE_COLL_TYPES](#)

3.2.182. DBA_PACKAGE_MEMBER_TYPES

Displays types of the package.

- See also

[ALL_PACKAGE_MEMBER_TYPES](#)

[USER_PACKAGE_MEMBER_TYPES](#)

3.2.183. DBA_PACKAGE_TYPES

Displays types of the package.

- See also

[ALL_PACKAGE_TYPES](#)

[USER_PACKAGE_TYPES](#)

3.2.184. DBA_PART_INDEXES

Displays partitioning information for the partitioned indexes in the database.

- See also

[ALL_PART_INDEXES](#)

[USER_PART_INDEXES](#)

3.2.185. DBA_PART_KEY_COLUMNS

Displays partitioning key columns for all partitioned tables or indexes in the database.

- See also

[ALL_PART_KEY_COLUMNS](#)

[USER_PART_KEY_COLUMNS](#)

3.2.186. DBA_PART_LOBS

Displays LOBs which belong to the partitioned tables in the database.

- See also

[ALL_PART_LOBS](#)

[USER_PART_LOBS](#)

3.2.187. DBA_PART_TABLES

Displays partitioning information of the partitioned tables in the database.

- See also

[ALL_PART_TABLES](#)

[USER_PART_TABLES](#)

3.2.188. DBA_PRIV_AUDIT_OPTS

Displays users being audited in the database.

- Columns

Column Name	Data Type	Description
USER_NAME	VARCHAR(128)	Name of the user being audited
PROXY_NAME	VARCHAR(128)	PROXY name of the user being audited
PRIVILEGE	VARCHAR(40)	Name of the system privilege being audited
SUCCESS	VARCHAR(10)	Auditing option at success

Column Name	Data Type	Description
FAILURE	VARCHAR(10)	Auditing option at failure

3.2.189. DBA_PROCEEDURES

Displays all procedures in the database.

- See also

[ALL_PROCEEDURES](#)

[USER_PROCEEDURES](#)

3.2.190. DBA_PROFILES

Describes all profiles in the database.

- Columns

Column Name	Data Type	Description
PROFILE	VARCHAR(255)	Name of the profile
RESOURCE_NAME	VARCHAR(255)	Name of the resource
RESOURCE_TYPE	VARCHAR(8)	Indicates whether the resource profile is a KERNEL or a PASSWORD parameter
LIMIT	VARCHAR(256)	Limit placed on this resource for this profile

3.2.191. DBA_QUEUES

Describes all queues in the database.

- See also

[ALL_QUEUES](#)

[USER_QUEUES](#)

3.2.192. DBA_QUEUE_SUBSCRIBERS

Shows the list of subscribers on all queues in the database.

- See also

[ALL_QUEUE_SUBSCRIBERS](#)

[USER_QUEUE_SUBSCRIBERS](#)

3.2.193. DBA_QUEUE_TABLES

Describes the queues in all queue tables in the database.

- See also

[ALL_QUEUE_TABLES](#)

[USER_QUEUE_TABLES](#)

3.2.194. DBA_RECYCLEBIN

Displays information of all temporarily deleted objects in the database. The columns are the same as those in ALL_RECYCLEBIN.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
OBJECT_NAME	VARCHAR(128)	Current name of the object
ORIGINAL_NAME	VARCHAR(128)	Original name of the object
TYPE	VARCHAR(7)	Type of the object - Table - Index - Trigger
TS_NAME	VARCHAR(128)	Name of the tablespace containing the object
CREATETIME	VARCHAR(19)	Timestamp for the object creation

Column Name	Data Type	Description
DROPTIME	VARCHAR(19)	Timestamp for the object deletion
DROPTSN	NUMBER	TSN of the transaction which dropped the object
BASE_OBJECT	VARCHAR(256)	Object ID of the base object
SPACE	VARCHAR(0)	Number of blocks used by the object

- See also

[ALL_RECYCLEBIN](#)

[USER_RECYCLEBIN](#)

3.2.195. DBA_REDEFINITION_OBJECTS

Displays all objects in database which are being redefined online.

- Columns

Column Name	Data Type	Description
OBJECT_TYPE	VARCHAR(5)	Type of the object. (Currently, only 'TABLE' is available)
OBJECT_OWNER	VARCHAR(128)	Owner of the object.
OBJECT_NAME	VARCHAR(128)	Name of the object.
BASE_TABLE_OWNER	VARCHAR(128)	Owner of the base table of the object.
BASE_TABLE_NAME	VARCHAR(128)	Name of the base table of the object.
INTERIM_OBJECT_OWNER	VARCHAR(128)	Owner of the intermediate table of the object.
INTERIM_OBJECT_NAME	VARCHAR(128)	Name of the intermediate table of the object.

3.2.196. DBA_ROLES

Displays all roles in the database.

- Columns

Column Name	Data Type	Description
ROLE	VARCHAR(128)	Name of the role
PASSWORD_REQUIRED	VARCHAR(3)	Whether a password is required or not

3.2.197. DBA_ROLE_PRIVS

Displays roles granted to the users in the database.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user or role which was granted the role
GRANTED_ROLE	VARCHAR(128)	Granted role
ADMIN_OPTION	VARCHAR(3)	Whether or not the role was assigned with ADMIN OPTION - YES - NO - ERR
DEFAULT_ROLE	VARCHAR(3)	Whether the role is set to default role for the user - YES - NO - ERR

- See also

[USER_ROLE_PRIVS](#)

3.2.198. DBA_ROLLBACK_SEGS

Synonym for DBA_UNDO_SGMTS.

- Columns

Column Name	Data Type	Description
SEGMENT_ID	NUMBER	ID of the segment
TABLESPACE_NAME	VARCHAR(128)	Name of the undo tablespace
FILE_ID	NUMBER	ID of the file containing the segment header
BLOCK_ID	NUMBER	ID of the block containing the segment header
STATUS	VARCHAR(15)	Status of the segment - ONLINE - OFFLINE - OFFLINE PENDING - DROPPED (Never reused)
RELATIVE_FNO	NUMBER	Relative file number of the segment header

- See also

[DBA_UNDO_SGMTS](#)

3.2.199. DBA_SCHEDULER_CHAINS

Displays all scheduler chains in the database.

- See also

[ALL_SCHEDULER_CHAINS](#)

[USER_SCHEDULER_CHAINS](#)

3.2.200. DBA_SCHEDULER_JOBS

Displays all scheduler jobs in the database.

- See also

[ALL_SCHEDULER_JOBS](#)

[USER_SCHEDULER_JOBS](#)

3.2.201. DBA_SCHEDULER_JOB_LOG

Displays all scheduler job log in the database.

- See also

[ALL_SCHEDULER_JOB_LOG](#)

[USER_SCHEDULER_JOB_LOG](#)

3.2.202. DBA_SCHEDULER_JOB_RUN_DETAILS

Displays all scheduler job run details in the database.

- See also

[ALL_SCHEDULER_JOB_RUN_DETAILS](#)

[USER_SCHEDULER_JOB_RUN_DETAILS](#)

3.2.203. DBA_SCHEDULER_PROGRAMS

Displays all scheduler programs in the database.

- See also

[ALL_SCHEDULER_PROGRAMS](#)

[USER_SCHEDULER_PROGRAMS](#)

3.2.204. DBA_SCHEDULER_RULES

Displays all scheduler rules in the database.

- See also

[ALL_SCHEDULER_RULES](#)

[USER_SCHEDULER_RULES](#)

3.2.205. DBA_SCHEDULER_RULE_CTX

Displays all scheduler rule ctx in the database.

- See also

[ALL_SCHEDULER_RULE_CTX](#)

[USER_SCHEDULER_RULE_CTX](#)

3.2.206. DBA_SCHEDULER_RUNNING_JOBS

Displays all scheduler running jobs in the database.

- See also

[ALL_SCHEDULER_RUNNING_JOBS](#)

[USER_SCHEDULER_RUNNING_JOBS](#)

3.2.207. DBA_SCHEDULER_SCHEDULES

Displays all scheduler schedules in the database.

- See also

[ALL_SCHEDULER_SCHEDULES](#)

[USER_SCHEDULER_SCHEDULES](#)

3.2.208. DBA_SCHEDULER_STEPS

Displays all scheduler steps in the database.

- See also

[ALL_SCHEDULER_STEPS](#)

[USER_SCHEDULER_STEPS](#)

3.2.209. DBA_SCHEDULER_STEP_CTX

Displays all scheduler step context in the database.

- See also

[ALL_SCHEDULER_STEP_CTX](#)

[USER_SCHEDULER_STEP_CTX](#)

3.2.210. DBA_SEGMENTS

Displays all segments in the database.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the segment
SEGMENT_NAME	VARCHAR(128)	Name of the segment
PARTITION_NAME	VARCHAR(128)	Partition number of the object (Set to NULL for non-partitioned objects)
SEGMENT_TYPE	VARCHAR(18)	Type of the segment - TABLE - TABLE PARTITION - TABLE SUBPARTITION - LOB - INDEX - INDEX PARTITION - INDEX SUBPARTITION - LOB - LOB PARTITION - LOB SUBPARTITION - UNDO
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace containing the segment
HEADER_FILE	NUMBER	ID of the file containing the segment header
HEADER_BLOCK	NUMBER	ID of the block containing the segment header
BLOCKS	NUMBER	Size of the segment in blocks
EXTENTS	NUMBER	Size of the segment in extents
RELATIVE_FNO	NUMBER	Relative file number of the segment header
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool

Column Name	Data Type	Description
		- DEFAULT - KEEP - RECYCLE
MAX_EXTENTS	NUMBER	Maximum number of extents that the segment can use
BYTES	NUMBER	Size of segment in bytes
INITIAL_EXTENT	NUMBER	Size in bytes requested for the initial extent of the segment
NEXT_EXTENT	NUMBER	Size in bytes of the next extent to be allocated to the segment

- See also

[ALL_SEGMENTS](#)

[USER_SEGMENTS](#)

3.2.211. DBA_SEQUENCES

Displays all sequences in the database.

- See also

[ALL_SEQUENCES](#)

[USER_SEQUENCES](#)

3.2.212. DBA_SOURCE

Displays source texts of the stored objects in the database such as procedures, functions, package bodies, or triggers.

- See also

[ALL_SOURCE](#)

[USER_SOURCE](#)

3.2.213. DBA_SQL_PLAN_BASELINES

!!! No documentation yet !!!

- Columns

Column Name	Data Type	Description
SPL_OWNER	VARCHAR(128)	Owner of stoplist
SPL_NAME	VARCHAR(30)	Name of stoplist
SPL_COUNT	NUMBER	Number of stopwords
SPL_TYPE	VARCHAR(30)	Type of stoplist Displays information about the created SQL plan baselines
SIGNATURE	NUMBER	Unique SQL identifier generated from normalized SQL TEXT
SQL_HANDLE	VARCHAR2(30)	Unique SQL identifier
SQL_TEXT	CLOB	Un-normalized SQL text
PLAN_NAME	VARCHAR2(30)	Unique plan identifier
CREATOR	VARCHAR2(30)	User who created the plan baseline
ORIGIN	VARCHAR2(14)	How the plan baseline was created: MANUAL-LOAD AUTO-CAPTURE MANUAL-SQLTUNE AUTO-SQL TUNE
PARS ING_SCHEMA_NAME	VARCHAR2(30)	Parsing schema name
DESCRIPTION	VARCHAR2(500)	Description about the plan baseline
VERSION	VARCHAR2(64)	Database version when the plan baseline was created
CREATED	TIMESTAMP(6)	Timestamp when the plan baseline was created
LAST_MODIFIED	TIMESTAMP(6)	Timestamp when the plan baseline was last modified
LAST_EXECUTED	TIMESTAMP(6)	Timestamp when the plan baseline was last executed
LAST_VERIFIED	TIMESTAMP(6)	Timestamp when the plan baseline was last verified
ENABLED	VARCHAR2(3)	Whether to enable the plan baseline

Column Name	Data Type	Description
ACCEPTED	VARCHAR2(3)	Whether to accept the plan baseline
FIXED	VARCHAR2(3)	Whether to fix the plan baseline
AUTOPURGE	VARCHAR2(3)	Whether to automatically purge the plan baselines
OPTIMIZER_COST	NUMBER	Optimizer cost when the plan baseline created
MODULE	VARCHAR2(48)	Module name
ACTION	VARCHAR2(32)	Action
EXECUTIONS	NUMBER	Number of executions
ELAPSED_TIME	NUMBER	Total elapsed time
CPU_TIME	NUMBER	Total CPU time
BUFFER_GETS	NUMBER	Total buffer gets
DISK_READS	NUMBER	Total disk reads
DIRECT_WRITES	NUMBER	Total direct writes
ROWS_PROCESSED	NUMBER	Total rows processed
FETCHES	NUMBER	Total number of fetches
END_OF_FETCH_COUNT	NUMBER	Total number of full fetches

3.2.214. DBA_SQL_PROFILES

displays information about SQL profiles currently created for specific SQL statements.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR2(128)	Name of the SQL profile
CATEGORY	VARCHAR2(128)	Category of the SQL profile
SIGNATURE	NUMBER	Unique identifier generated from normalized SQL text

Column Name	Data Type	Description
SQL_TEXT	CLOB	Un-normalized SQL text
CREATED	TIMESTAMP(6)	Timestamp when the SQL profile was created
LAST_MODIFIED	TIMESTAMP(6)	Timestamp when the SQL profile was last modified
DESCRIPTION	VARCHAR2(500)	Text description provided for the SQL profile
TYPE	VARCHAR2(7)	Type of the SQL profile (how it was created): MANUAL AUTO
STATUS	VARCHAR2(8)	Status of the SQL profile: ENABLED DISABLED VOID
FORCE_MATCHING	VARCHAR2(3)	If YES, this causes SQL Profiles to target all SQL statements which have the same text after normalizing all literal values to bind variables. If a combination of literal values and bind variables is used in the same SQL text, then no transformation occurs. This is analogous to the matching algorithm use by the FORCE option of the CURSOR_SHARING parameter. If NO, literals are not transformed. This is analogous to the matching algorithm used by the EXACT option of the CURSOR_SHARING parameter.

3.2.215. DBA_SUBPART_KEY_COLUMNS

Displays subpartitioning key columns of the partitioned tables or indexes in the database.

- See also

[ALL_SUBPART_KEY_COLUMNS](#)

[USER_SUBPART_KEY_COLUMNS](#)

3.2.216. DBA_SYNONYMS

Displays synonyms in the database.

- See also

[ALL_SYNONYMS](#)

3.2.217. DBA_SYS_PRIVS

Displays system privileges granted to users and roles in the database.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
PRIVILEGE	VARCHAR(40)	Name of the privilege
ADMIN_OPTION	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES - NO - ERR

- See also

[USER_SYS_PRIVS](#)

3.2.218. DBA_TABLES

Displays all tables in the database.

- See also

[ALL_TABLES](#)

[USER_TABLES](#)

3.2.219. DBA_TABLESPACES

Displays all tablespaces in the database.

- Columns

Column Name	Data Type	Description
TABSPACE_NAME	VARCHAR(128)	Name of the tablespace that contains the table
TS_ID	NUMBER	ID of the tablespace
DATAFILE_COUNT	NUMBER	The number of data files
BLOCK_SIZE	NUMBER	Size of the tablespace block
NEXT_EXTENT	NUMBER	Size of the next extent
STATUS	VARCHAR(9)	Current status of the tablespace - ONLINE - OFFLINE
CONTENTS	VARCHAR(9)	Contents of the tablespace - TEMPORARY - PERMANENT - UNDO
LOGGING	VARCHAR(9)	Whether logging is enabled or not - YES - NO
FORCE_LOGGING	VARCHAR(3)	Whether force logging is enabled or not - YES - NO
ALLOCATION_TYPE	VARCHAR(7)	Type of extent allocation in effect for the tablespace: - SYSTEM - UNIFORM
ENCRYPTED	VARCHAR(3)	Whether tablespace encryption is enabled or not - YES - NO
INITIAL_EXTENT	NUMBER	Default initial extent size

Column Name	Data Type	Description
MIN_EXTENTS	NUMBER	Default minimum number of extents
MAX_EXTENTS	NUMBER	Default maximum number of extents
EXTENT_MANAGEMENT	VARCHAR(5)	Type of extent management - LOCAL
SEGMENT_SPACE_MANAGEMENT	VARCHAR(4)	Type of segment space management - AUTO

- See also

[USER_TABLESPACES](#)

3.2.220. DBA_TAB_COLS

Synonym for DBA_TBL_COLS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table or view
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column
DATA_LENGTH	NUMBER	Column length (in bytes)
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column

Column Name	Data Type	Description
DATA_DEFAULT	LONG	Default value of the column
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)
NUM_NULLS	NUMBER	(Not supported)
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column
HIDDEN_COLUMN	VARCHAR(1)	(Not supported)
SEGMENT_COL UMN_ID	NUMBER	(Not supported)
INTERNAL_COL UMN_ID	NUMBER	(Not supported)
QUALI FIED_COL_NAME	VARCHAR(4000)	(Not supported)

- See also

[ALL_TAB_COLS](#)

[ALL_TBL_COLS](#)

[DBA_TBL_COLS](#)

[USER_TAB_COLS](#)

[USER_TBL_COLS](#)

3.2.221. DBA_TAB_COLUMNS

Synonym for DBA_TBL_COLUMNS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table or view
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column
DATA_TYPE_OWNER	VARCHAR(128)	Owner of the datatype of the column
DATA_LENGTH	NUMBER	Column length (in bytes)
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column
DATA_DEFAULT	LONG	Default value of the column
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column

- See also

[ALL_TAB_COLUMNS](#)

[ALL_TBL_COLUMNS](#)

[ALL_TBL_COLUMNS_WITH_DNO](#)

[DBA_TBL_COLUMNS](#)

[USER_TAB_COLUMNS](#)

[USER_TBL_COLUMNS](#)

3.2.222. DBA_TAB_COL_STATISTICS

Synonym for DBA_TBL_COL_STATISTICS.

- Columns

Column Name	Data Type	Description
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
NUM_DISTINCT	NUMBER	The number of distinct values
LOW_VALUE	VARCHAR(4000)	The lowest value in the column
HIGH_VALUE	VARCHAR(4000)	The highest value in the column
DENSITY	NUMBER	Density of the column
NUM_NULLS	NUMBER	The number of NULL values
NUM_BUCKETS	NUMBER	The number of buckets for the histogram
LAST_ANALYZED	DATE	Date of the most recent analysis for the column
SAMPLE_SIZE	NUMBER	Size of the sample used for analyzing statistics for the column
AVG_COL_LEN	NUMBER	Average length of the column (in bytes)
HISTOGRAM	VARCHAR(15)	Indicates the type of histogram

- See also

[ALL_TAB_COL_STATISTICS](#)

[ALL_TBL_COL_STATISTICS](#)

[DBA_TBL_COL_STATISTICS](#)

[USER_TAB_COL_STATISTICS](#)

[USER_TBL_COL_STATISTICS](#)

3.2.223. DBA_TAB_COMMENTS

Displays comments on all tables and views in the database.

- See also

[ALL_TAB_COMMENTS](#)

[ALL_TBL_COMMENTS](#)

[DBA_TBL_COMMENTS](#)

3.2.224. DBA_TAB_HISTOGRAMS

Synonym for DBA_TBL_HISTOGRAMS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
ENDPOINT_NUMBER	NUMBER	History bucket number
ENDPOINT_VALUE	NUMBER	End point value of the current bucket
ENDPOINT_ACTUAL_VALUE	VARCHAR(4000)	Actual string value of the end point value of the current bucket

- See also

[ALL_TAB_HISTOGRAMS](#)

[ALL_TBL_HISTOGRAMS](#)

[DBA_TBL_HISTOGRAMS](#)

[USER_TAB_HISTOGRAMS](#)

[USER_TBL_HISTOGRAMS](#)

3.2.225. DBA_TAB_IDENTITY_COLS

Displays identity columns of all tables.

- See also

[ALL_TAB_IDENTITY_COLS](#)

[USER_TAB_IDENTITY_COLS](#)

3.2.226. DBA_TAB_PARTITIONS

Synonym for DBA_TBL_PARTITIONS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
TABLE_NAME	VARCHAR(128)	Name of the table
COMPOSITE	VARCHAR(3)	Whether or not the partition belongs to a composite-partitioned table - YES - NO
PARTITION_NAME	VARCHAR(128)	Name of the table partition
SUBPARTITION_COUNT	NUMBER	The number of subpartitions which belong to the partition
BOUND	LONG	Partition bound value
PARTITION_NO	NUMBER	Partition number within the table
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs

Column Name	Data Type	Description
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
COMPRESSION	VARCHAR(3)	Whether or not the table partition has been compressed - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the partition - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - NULL
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
NUM_ROWS	NUMBER	The number of rows within the table partition
BLOCKS	NUMBER	The number of data blocks containing information about the table partition
LAST_ANALYZED	DATE	Date of the most recent analysis for the table partition
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO

- See also

[ALL_TAB_PARTITIONS](#)

[ALL_TBL_PARTITIONS](#)

[DBA_TBL_PARTITIONS](#)

[USER_TAB_PARTITIONS](#)

[USER_TBL_PARTITIONS](#)

3.2.227. DBA_TAB_PRIVS

Synonym for DBA_TBL_PRIVS.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with GRANT OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TAB_PRIVS](#)

[ALL_TBL_PRIVS](#)

[DBA_TBL_PRIVS](#)

[USER_TAB_PRIVS](#)

[USER_TBL_PRIVS](#)

3.2.228. DBA_TAB_SUBPARTITIONS

Synonym for DBA_TBL_SUBPARTITIONS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the user
TABLE_NAME	VARCHAR(128)	Name of the table
PARTITION_NAME	VARCHAR(128)	Name of the table partition
SUBPARTITION_NAME	VARCHAR(128)	Name of the table subpartition
BOUND	LONG	Subpartition bound value
SUBPARTITION_NO	NUMBER	Subpartition number within the partition
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the subpartition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
COMPRESSION	VARCHAR(3)	Whether or not the table partition has been compressed - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the table subpartition - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - ADVANCED - NULL

Column Name	Data Type	Description
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
MAX_TRANS	NUMBER	Maximum number of transactions allowed
INITIAL_EXTENT	NUMBER	Size of the initial extent
MIN_EXTENT	NUMBER	Minimum number of extents allowed in the segment
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
NUM_ROWS	NUMBER	The number of rows within the table subpartition
LAST_ANALYZED	DATE	Date of the most recent analysis for the table subpartition

- See also

[ALL_TAB_SUBPARTITIONS](#)

[ALL_TBL_SUBPARTITIONS](#)

[DBA_TBL_SUBPARTITIONS](#)

3.2.229. DBA_TBL_COLS

Displays columns of all tables and views in the database.

- See also

[ALL_TAB_COLS](#)

[ALL_TBL_COLS](#)

[DBA_TAB_COLS](#)

[USER_TAB_COLS](#)

[USER_TBL_COLS](#)

3.2.230. DBA_TBL_COLUMNS

Displays columns of all tables and views in the database.

- See also

[ALL_TAB_COLUMNS](#)

[ALL_TBL_COLUMNS](#)

[ALL_TBL_COLUMNS_WITH_DNO](#)

[DBA_TAB_COLUMNS](#)

[USER_TAB_COLUMNS](#)

[USER_TBL_COLUMNS](#)

3.2.231. DBA_TBL_COL_STATISTICS

Displays statistics and a histogram of columns by extracting them from DBA_TBL_COLUMNS.

- See also

[ALL_TAB_COL_STATISTICS](#)

[ALL_TBL_COL_STATISTICS](#)

[DBA_TAB_COL_STATISTICS](#)

[USER_TAB_COL_STATISTICS](#)

[USER_TBL_COL_STATISTICS](#)

3.2.232. DBA_TBL_COMMENTS

Synonym for DBA_TAB_COMMENTS.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
TABLE_TYPE	VARCHAR(9)	Type of the object
COMMENTS	VARCHAR(4000)	Comment on the object

- See also

[ALL_TAB_COMMENTS](#)

[ALL_TBL_COMMENTS](#)

[DBA_TAB_COMMENTS](#)

3.2.233. DBA_TBL_HISTOGRAMS

Displays histogram information on tables and views in the database.

- See also

[ALL_TAB_HISTOGRAMS](#)

[ALL_TBL_HISTOGRAMS](#)

[DBA_TAB_HISTOGRAMS](#)

[USER_TAB_HISTOGRAMS](#)

[USER_TBL_HISTOGRAMS](#)

3.2.234. DBA_TBL_PARTITIONS

Displays partition information of all tables in the database.

- See also

[ALL_TAB_PARTITIONS](#)

[ALL_TBL_PARTITIONS](#)

[DBA_TAB_PARTITIONS](#)

[USER_TAB_PARTITIONS](#)

[USER_TBL_PARTITIONS](#)

3.2.235. DBA_TBL_PRIVS

Displays object privileges granted on all tables in the database.

- See also

[ALL_TAB_PRIVS](#)

[ALL_TBL_PRIVS](#)

[DBA_TAB_PRIVS](#)

[USER_TAB_PRIVS](#)

[USER_TBL_PRIVS](#)

3.2.236. DBA_TBL_SUBPARTITIONS

Displays subpartitions of all tables in the database.

- See also

[ALL_TAB_SUBPARTITIONS](#)

[ALL_TBL_SUBPARTITIONS](#)

[DBA_TAB_SUBPARTITIONS](#)

3.2.237. DBA_TEMPFILES

Synonym for DBA_TEMP_FILES.

- Columns

Column Name	Data Type	Description
FILE_NAME	VARCHAR(256)	Name of the temporary data file
FILE_ID	NUMBER	ID of the data file
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace where the data file is contained
BYTES	NUMBER	Size of the data file in bytes
BLOCKS	NUMBER	Size of the data file in blocks
STATUS	CHAR(9)	Status of the data file - AVAILABLE
RELATIVE_FNO	NUMBER	Relative data file number
AUTOEXTENSIBLE	VARCHAR(3)	Auto extensible indicator - YES

Column Name	Data Type	Description
		- NO
MAXBYTES	NUMBER	Maximum data file size in bytes
MAXBLOCKS	NUMBER	Maximum data file size in blocks
INCREMENT_BY	NUMBER	Auto increment value

- See also

[DBA_TEMP_FILES](#)

3.2.238. DBA_TEMP_FILES

Displays information of the temporary data files.

- Columns

Column Name	Data Type	Description
FILE_NAME	VARCHAR(256)	Name of the temporary data file
FILE_ID	NUMBER	ID of the data file
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace where the data file is contained
BYTES	NUMBER	Size of the data file in bytes
BLOCKS	NUMBER	Size of the data file in blocks
STATUS	CHAR(9)	Status of the data file - AVAILABLE
RELATIVE_FNO	NUMBER	Relative data file number
AUTOEXTENSIBLE	VARCHAR(3)	Auto extensible indicator - YES - NO
MAXBYTES	NUMBER	Maximum data file size in bytes
MAXBLOCKS	NUMBER	Maximum data file size in blocks

Column Name	Data Type	Description
INCREMENT_BY	NUMBER	Auto increment value

- See also

[DBA_TEMPFILES](#)

3.2.239. DBA_TRIGGERS

Displays all triggers in the database.

- See also

[ALL_TRIGGERS](#)

[USER_TRIGGERS](#)

3.2.240. DBA_TRIGGER_COLS

Displays column information of all triggers in the database. The columns are the same as those in ALL_TRIGGER_COLS.

- See also

[ALL_TRIGGER_COLS](#)

[USER_TRIGGER_COLS](#)

3.2.241. DBA_TS_QUOTAS

Describe tablespace quotas for all user

- Columns

Column Name	Data Type	Description
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace
USERNAME	VARCHAR(128)	Name of the user
BYTES	NUMBER	Number of bytes charged to the user
MAX_BYTES	NUMBER	User's quota in bytes

Column Name	Data Type	Description
BLOCKS	NUMBER	Number of blocks charged to the user
MAX_BLOCKS	NUMBER	User's quota in blocks
DROPPED	VARCHAR(3)	Whether the tablespace has been dropped

3.2.242. DBA_TYPES

Displays all types.

- See also

[ALL_TYPES](#)

[USER_TYPES](#)

3.2.243. DBA_TYPE_ATTRS

Displays all the attributes of this type.

- See also

[ALL_TYPE_ATTRS](#)

[USER_TYPE_ATTRS](#)

3.2.244. DBA_TYPE_METHODS

Displays all the methods of this type.

- See also

[ALL_TYPE_METHODS](#)

[USER_TYPE_METHODS](#)

3.2.245. DBA_UNDO_EXTENTS

Displays information about the extents in all undo segments.

- Columns

Column Name	Data Type	Description
USGMT_ID	NUMBER	ID of the undo segment containing the extent
EXTNO	NUMBER	Extent number
TS_ID	NUMBER	ID of the tablespace containing the extent
TS_NAME	VARCHAR	Name of the tablespace containing the extent
FILE_ID	NUMBER	ID of the file containing the extent
BLOCK_ID	NUMBER	Starting block number of the extent
BYTES	NUMBER	Size of the extent in bytes
BLOCKS	NUMBER	Size of the extent in blocks
STATUS	VARCHAR(30)	Current status of the extent
IS_CURRENT	VARCHAR(12)	Whether the extent is current extent or not

3.2.246. DBA_UNDO_SGMTS

Displays undo segments in the database.

- Columns

Column Name	Data Type	Description
SEGMENT_ID	NUMBER	ID of the segment
TABLESPACE_NAME	VARCHAR(128)	Name of the undo tablespace
FILE_ID	NUMBER	ID of the file containing the segment header
BLOCK_ID	NUMBER	ID of the block containing the segment header
STATUS	VARCHAR(15)	Status of the segment - ONLINE - OFFLINE - OFFLINE PENDING - DROPPED (Never reused)

Column Name	Data Type	Description
RELATIVE_FNO	NUMBER	Relative file number of the segment header

- See also

[DBA_ROLLBACK_SEGS](#)

3.2.247. DBA_UPDATABLE_COLUMNS

Displays all join view columns that the DBA can update.

- See also

[ALL_UPDATABLE_COLUMNS](#)

[USER_UPDATABLE_COLUMNS](#)

3.2.248. DBA_USERS

Displays all users in the database.

- Columns

Column Name	Data Type	Description
USERNAME	VARCHAR(128)	Name of the user
USER_ID	NUMBER	ID of the user
PASSWORD	VARCHAR(24)	Password of the user (Password is encrypted.)
ACCOUNT_STATUS	VARCHAR(30)	Account status - LOCKED - EXPIRED - LOCKED(TIMED) - EXPIRED(GRACE) - EXPIRED & LOCKED(TIMED) - EXPIRED(GRACE) & LOCKED(TIMED) - EXPIRED(GRACE) & LOCKED

Column Name	Data Type	Description
		- EXPIRED & LOCKED - OPEN
LOCK_DATE	DATE	Date that the account was locked
EXPIRY_DATE	DATE	Date that the account was expired
DEFAULT_TABLESPACE	VARCHAR(128)	Default tablespace for data
CREATED	DATE	Date that the user was created
PROFILE	VARCHAR(255)	Profile assigned to the user
DEFAULT_TEMP_TABLESPACE	VARCHAR(128)	Default temporary tablespace for data
AUTHENTICATION_TYPE	VARCHAR(8)	Type of the authentication process for the user - PASSWORD - EXTERNAL
LAST_LOGIN	TIMESTAMP(9)	The time of last login

- See also

[ALL_USERS](#)

[USER_USERS](#)

3.2.249. DBA_VIEWS

Displays all views in the database.

- See also

[ALL_VIEWS](#)

[ALL_VIEWS_INTERNAL](#)

[USER_VIEWS](#)

3.2.250. DBMSHSP_SQL_PROFILE_ATTR

displays outline hints that sql profile defines.

- Columns

Column Name	Data Type	Description
PROFILE_NAME	VARCHAR2(128)	Name of the SQL profile
COMP_DATA	CLOB	SQL profile attribute

3.2.251. DICTIONARY

Displays comments on tables and views in the data dictionary.

- Columns

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table or view
COMMENTS	VARCHAR(4000)	Comments on the table or view

3.2.252. NLS_DATABASE_PARAMETERS

Displays NLS parameters of the current database.

- Columns

Column Name	Data Type	Description
PARAMETER	VARCHAR(64)	Name of the parameter
VALUE	VARCHAR(64)	Value of the parameter

3.2.253. NLS_SESSION_PARAMETERS

Displays NLS parameters of the current user session.

- Columns

Column Name	Data Type	Description
PARAMETER	VARCHAR(64)	Name of the parameter
VALUE	VARCHAR(64)	Value of the parameter

3.2.254. PUBLICSYN

Displays all public synonyms in the database.

- Columns

Column Name	Data Type	Description
SYN_NAME	VARCHAR(128)	Name of the synonym
OBJ_OWNER	VARCHAR(128)	Owner of the object
OBJ_NAME	VARCHAR(257)	Name of the object
OBJ_TYPE	VARCHAR(9)	Type of the object

3.2.255. ROLE_ROLE_PRIVS

Displays the roles granted to other roles which the current user can access.

- Columns

Column Name	Data Type	Description
ROLE	VARCHAR(128)	Name of the role
GRANTED_ROLE	VARCHAR(128)	Role that was granted
ADMIN_OPTION	VARCHAR(3)	Whether or not the role was assigned with ADMIN OPTION - YES - NO - ERR

3.2.256. ROLE_SYS_PRIVS

Displays system privileges granted to roles which the current user can access.

- Columns

Column Name	Data Type	Description
ROLE	VARCHAR(128)	Name of the role
PRIVILEGE	VARCHAR(40)	Name of the privilege
ADMIN_OPTION	VARCHAR(3)	Whether or not the grant was assigned with ADMIN OPTION - YES - NO - ERR

3.2.257. ROLE_TAB_PRIVS

Displays object privileges granted to roles which the current user can access.

- Columns

Column Name	Data Type	Description
ROLE	VARCHAR(128)	Name of the role
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
COLUMN_NAME	VARCHAR(128)	Name of the column, if applicable
PRIVILEGE	VARCHAR(40)	Object privilege granted to the role
ADMIN_OPTION	VARCHAR(3)	Whether or not the grant was assigned with ADMIN OPTION - YES - NO - ERR

3.2.258. SESSION_CONTEXT

Displays context attributes in the current session.

- Columns

Column Name	Data Type	Description
NAMESPACE	VARCHAR(128)	The namespace of the context attribute
ATTRIBUTE	VARCHAR(128)	The name of the attribute
VALUE	VARCHAR(65532)	The value of the attribute

3.2.259. SESSION_PRIVS

Displays the system privileges granted to current session user.

- Columns

Column Name	Data Type	Description
PRIVILEGE	VARCHAR(40)	Name of the privilege

3.2.260. SESSION_ROLES

Displays roles granted to the current session user.

- Columns

Column Name	Data Type	Description
ROLE	VARCHAR(128)	Name of the role

3.2.261. SYS_OBJECTS

Displays IDs and types of all schema objects, and IDs of the segment header blocks in the database.

- Columns

Column Name	Data Type	Description
OBJECT_TYPE	VARCHAR(18)	Type of the object

Column Name	Data Type	Description
OBJECT_TYPE_NO	NUMBER	ID of the object's type
SEGMENT_TYPE_NO	NUMBER	ID of the segment's type
OBJECT_ID	NUMBER	ID of the object
HEADER_FILE	NUMBER	ID of the data file containing the segment header
HEADER_BLOCK	NUMBER	ID of the disk block containing the segment header
TS_NUMBER	NUMBER	ID of the tablespace containing the object
SEGMENT_ID	NUMBER	ID of the segment

3.2.262. USER_ARGUMENTS

Displays all parameters of the procedure or function that the current user owns.

- See also

[ALL_ARGUMENTS](#)

3.2.263. USER_AUDIT_TRAIL

Displays audit trails associated with the current user.

- Columns

Column Name	Data Type	Description
OS_USERNAME	VARCHAR(128)	Operating system user name who was set to be audited
USERNAME	VARCHAR(128)	Name of the user who was set to be audited
USERHOST	VARCHAR(21)	Name of the host machine from which the client has connected
TIMESTAMP	VARCHAR(19)	Audit trail-created time
OWNER	VARCHAR(128)	Owner of the object associated with the audited action
OBJ_NAME	VARCHAR(128)	Name of the object associated with the audited action

Column Name	Data Type	Description
SESSIONID	NUMBER	Session ID
SERIALNO	NUMBER	Sequence number of the session
ENTRYID	NUMBER	Sequence number for each audit trail in the session
STATEMENTID	NUMBER	ID of the executed statement
PRIV_USED	VARCHAR(80)	Name of the privilege used to execute the audited action
CLIENT_ID	VARCHAR(30)	Client identifier
INSTANCE_NUMBER	NUMBER	Instance number of RDBMS which performed the action
OS_PROCESS	VARCHAR(16)	Process ID of RDBMS
TRANSACTIONID	VARCHAR(65532)	Transaction ID that participated in the audited action
TSN	NUMBER	TSN of the audited action
SQL_TEXT	LONG	SQL of the audited action

- See also

[DBA_AUDIT_TRAIL](#)

3.2.264. USER_CATALOG

Displays all tables, views, synonyms, and sequences that the current user owns.

- See also

[ALL_CATALOG](#)

[DBA_CATALOG](#)

3.2.265. USER_COLL_TYPES

Displays all the collection types that the current user owns.

- See also

[ALL_COLL_TYPES](#)

[DBA_COLL_TYPES](#)

3.2.266. USER_COL_COMMENTS

Displays comments on all columns in the tables or views that the current user owns.

- See also

[ALL_COL_COMMENTS](#)

[DBA_COL_COMMENTS](#)

3.2.267. USER_COL_PRIVS

Displays object privileges of the columns for which the current user is the object owner, grantor, or grantee.

- See also

[ALL_COL_PRIVS](#)

[DBA_COL_PRIVS](#)

3.2.268. USER_COL_PRIVS_MADE

Displays columns for which the current user is the grantor.

- See also

[ALL_COL_PRIVS_MADE](#)

3.2.269. USER_COL_PRIVS_RECD

Displays columns for which the current user is the grantee.

- See also

[ALL_COL_PRIVS_RECD](#)

3.2.270. USER_CONSTRAINTS

Displays constraints defined in the table that the current user owns.

- See also

[ALL_CONSTRAINTS](#)

[DBA_CONSTRAINTS](#)

3.2.271. USER_CONS_COLUMNS

Displays columns that are owned by the current user and that are specified in integrity constraint definitions.

- See also

[ALL_CONS_COLUMNS](#)

[DBA_CONS_COLUMNS](#)

3.2.272. USER_DB_LINKS

Displays information for the database links that the current user owns.

- See also

[ALL_DB_LINKS](#)

[DBA_DB_LINKS](#)

3.2.273. USER_DEPENDENCIES

Displays dependencies between procedures, functions, packages, package bodies, triggers, and views that the current user owns.

- See also

[ALL_DEPENDENCIES](#)

[DBA_DEPENDENCIES](#)

3.2.274. USER_ENCRYPTED_COLUMNS

Displays information of all encrypted columns that the current user owns. The columns are the same as those in ALL_ENCRYPTED_COLUMNS(except for OWNER)

- See also

[ALL_ENCRYPTED_COLUMNS](#)

[DBA_ENCRYPTED_COLUMNS](#)

3.2.275. USER_ERRORS

Displays the recent errors in every view, procedure, function, package, package body, trigger, library, and java object owned by current user. The columns are the same as those in ALL_ERRORS.(except for OWNER)

- See also

[ALL_ERRORS](#)

[DBA_ERRORS](#)

3.2.276. USER_EXTENTS

Displays information of the extents contained in the segments that the current user owns.

- Columns

Column Name	Data Type	Description
SEGMENT_NAME	VARCHAR(128)	Name of the segment containing the extent
PARTITION_NAME	VARCHAR(128)	Partition name of the object (Null value for non-partitioned objects)
SEGMENT_TYPE	VARCHAR(18)	Type of the segment
TABLESPACE_NAME	VARCHAR(30)	Name of the tablespace containing the extent
EXTENT_ID	NUMBER	ID of the extent
BYTES	NUMBER	Size of the extent in bytes
BLOCKS	NUMBER	Size of the extent in blocks

- See also

[DBA_EXTENTS](#)

3.2.277. USER_EXTERNAL_LOCATIONS

Displays all external table locations that the current user owns.

- See also

[ALL_EXTERNAL_LOCATIONS](#)

[DBA_EXTERNAL_LOCATIONS](#)

3.2.278. USER_EXTERNAL_TABLES

Displays all external tables that the current user owns.

- See also

[ALL_EXTERNAL_TABLES](#)

[DBA_EXTERNAL_TABLES](#)

3.2.279. USER_FREE_SPACE

Displays information of the extents available for the tablespaces that the current user can access.

- Columns

Column Name	Data Type	Description
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace containing the extent
FILE_ID	NUMBER	ID of the file containing the extent
BLOCK_ID	NUMBER	Starting block number of the extent
BYTES	NUMBER	Size of the extent in bytes
BLOCKS	NUMBER	Size of the extent in blocks
RELATIVE_FNO	NUMBER	Relative file number of the extent

- See also

[DBA_FREE_SPACE](#)

3.2.280. USER_IDX_COLUMNS

Displays index columns of all tables that the current user owns.

- See also

[ALL_IDX_COLUMNS](#)

[ALL_IND_COLUMNS](#)

[DBA_IDX_COLUMNS](#)

[DBA_IND_COLUMNS](#)

[USER_IND_COLUMNS](#)

3.2.281. USER_IDX_EXPRESSIONS

Displays expressions on function-based index columns of all tables that the current user owns.

- See also

[ALL_IDX_EXPRESSIONS](#)

[ALL_IND_EXPRESSIONS](#)

[DBA_IDX_EXPRESSIONS](#)

[DBA_IND_EXPRESSIONS](#)

[USER_IND_EXPRESSIONS](#)

3.2.282. USER_INDEXES

Displays indexes of all tables that the current user owns.

- See also

[ALL_INDEXES](#)

[DBA_INDEXES](#)

3.2.283. USER_IND_COLUMNS

Synonym for USER_IDX_COLUMNS.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
COLUMN_POSITION	NUMBER	Position of the column within the index
COLUMN_LENGTH	NUMBER	Length of the column within the index
DESCEND	VARCHAR(4)	Sorting order in columns - DESC - ASC

- See also

[ALL_IDX_COLUMNS](#)

[ALL_IND_COLUMNS](#)

[DBA_IDX_COLUMNS](#)

[DBA_IND_COLUMNS](#)

[USER_IDX_COLUMNS](#)

3.2.284. USER_IND_EXPRESSIONS

Synonym for USER_IDX_EXPRESSIONS.

- Columns

Column Name	Data Type	Description
INDEX_OWNER	VARCHAR(128)	Owner of the index
INDEX_NAME	VARCHAR(128)	Name of the index
TABLE_OWNER	VARCHAR(128)	Owner of the table

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_POSITION	NUMBER	Position of the column within the index
COLUMN_EXPRESSION	LONG	Expression of the column within the index

- See also

[ALL_IDX_EXPRESSIONS](#)

[ALL_IND_EXPRESSIONS](#)

[DBA_IDX_EXPRESSIONS](#)

[DBA_IND_EXPRESSIONS](#)

[USER_IDX_EXPRESSIONS](#)

3.2.285. USER_JAVA_ARGUMENTS

Displays all parameters that the current user owns.

- See also

[ALL_JAVA_ARGUMENTS](#)

[DBA_JAVA_ARGUMENTS](#)

3.2.286. USER_JAVA_CLASSES

Displays all classes that the current user owns.

- See also

[ALL_JAVA_CLASSES](#)

[DBA_JAVA_CLASSES](#)

3.2.287. USER_JAVA_FIELDS

Displays all fields that the current user owns.

- See also

[ALL_JAVA_FIELDS](#)

[DBA_JAVA_FIELDS](#)

3.2.288. USER_JAVA_METHODS

Displays all methods that the current user owns.

- See also

[ALL_JAVA_METHODS](#)

[DBA_JAVA_METHODS](#)

3.2.289. USER_JOBS

Displays all jobs that the current user owns.

- See also

[ALL_JOBS](#)

[DBA_JOBS](#)

3.2.290. USER_JOBS_WITH_NAME

Displays all jobs with job name that the current user owns.

- See also

[ALL_JOBS_WITH_NAME](#)

[DBA_JOBS_WITH_NAME](#)

3.2.291. USER_LIBRARIES

Displays all libraries that the current user owns.

- See also

[ALL_LIBRARIES](#)

[DBA_LIBRARIES](#)

3.2.292. USER_LOBS

Displays large objects (LOB) which belong to all tables that the current user owns.

- See also

[ALL_LOBS](#)

[DBA_LOBS](#)

3.2.293. USER_LOB_PARTITIONS

Displays all LOB partitions which belong to all tables that the current user owns.

- See also

[ALL_LOB_PARTITIONS](#)

[DBA_LOB_PARTITIONS](#)

3.2.294. USER_LOB_SUBPARTITIONS

Displays all LOB subpartitions which belong to all tables that the current user owns.

- See also

[ALL_LOB_SUBPARTITIONS](#)

[DBA_LOB_SUBPARTITIONS](#)

3.2.295. USER_LOG_GROUPS

Displays the log group definitions on the tables owned by the current user.

- See also

[ALL_LOG_GROUPS](#)

[DBA_LOG_GROUPS](#)

3.2.296. USER_LOG_GROUP_COLUMNS

Displays columns that are owned by the current user and that are specified in log groups.

- See also

[ALL_LOG_GROUP_COLUMNS](#)

[DBA_LOG_GROUP_COLUMNS](#)

3.2.297. USER_METHOD_PARAMS

Displays the method parameters of the type that the current user owns.

- See also

[ALL_METHOD_PARAMS](#)

[DBA_METHOD_PARAMS](#)

3.2.298. USER_METHOD_RESULTS

Displays the result of the method of this type that the current user owns.

- See also

[ALL_METHOD_RESULTS](#)

[DBA_METHOD_RESULTS](#)

3.2.299. USER_MVIEWS

Displays all materialized views that the current user owns. The columns are the same as those in ALL_MVIEWS.

- See also

[ALL_MVIEWS](#)

[DBA_MVIEWS](#)

3.2.300. USER_MVIEW_COMMENTS

Displays comments on all materialized views that the current user owns.

- See also

[ALL_MVIEW_COMMENTS](#)

3.2.301. USER_MVIEW_LOGS

Displays all materialized view logs that the current user owns. The columns are the same as those in ALL_MVIEW_LOGS.

- See also

[ALL_MVIEW_LOGS](#)

[DBA_MVIEW_LOGS](#)

3.2.302. USER_MVIEW_REFRESH_TIMES

Describes refresh times of the materialized views owned by the current user.

- See also

[ALL_MVIEW_DETAIL_RELATIONS](#)

[DBA_MVIEW_DETAIL_RELATIONS](#)

3.2.303. USER_OBJECTS

Displays all objects that the current user owns.

- See also

[ALL_OBJECTS](#)

[DBA_OBJECTS](#)

3.2.304. USER_OBJ_AUDIT_OPTS

Displays the current user's own objects which are being audited.

- Columns

Column Name	Data Type	Description
OBJECT_NAME	VARCHAR(128)	Name of the object
OBJECT_TYPE	VARCHAR(9)	Type of the object

Column Name	Data Type	Description
		- TABLE - VIEW - SEQUENCE - PROCEDURE - DIRECTORY - JAVA
ALT	VARCHAR(5)	ALTER auditing option for success or failure
DEL	VARCHAR(5)	DELETE auditing option for success or failure
IND	VARCHAR(5)	INDEX auditing option for success or failure
INS	VARCHAR(5)	INSERT auditing option for success or failure
LOC	VARCHAR(5)	LOCK auditing option for success or failure
SEL	VARCHAR(5)	SELECT auditing option for success or failure
UPD	VARCHAR(5)	UPDATE auditing option for success or failure
REF	VARCHAR(5)	REFERENCE auditing option for success or failure
EXE	VARCHAR(5)	EXECUTE auditing option for success or failure
REA	VARCHAR(5)	READ auditing option for success or failure
WRI	VARCHAR(5)	WRITE auditing option for success or failure

- See also

[DBA_OBJ_AUDIT_OPTS](#)

3.2.305. USER_PACKAGE_COLL_TYPES

Displays types of the package that the current user owns.

- See also

[ALL_PACKAGE_COLL_TYPES](#)

[DBA_PACKAGE_COLL_TYPES](#)

3.2.306. USER_PACKAGE_MEMBER_TYPES

Displays types of the package that the current user owns.

- See also

[ALL_PACKAGE_MEMBER_TYPES](#)

[DBA_PACKAGE_MEMBER_TYPES](#)

3.2.307. USER_PACKAGE_TYPES

Displays types of the package that the current user owns.

- See also

[ALL_PACKAGE_TYPES](#)

[DBA_PACKAGE_TYPES](#)

3.2.308. USER_PART_INDEXES

Displays partitioning information for the partitioned indexes that the current user owns.

- See also

[ALL_PART_INDEXES](#)

[DBA_PART_INDEXES](#)

3.2.309. USER_PART_KEY_COLUMNS

Displays partitioning key columns for all partitioned tables or indexes that the current user owns.

- See also

[ALL_PART_KEY_COLUMNS](#)

[DBA_PART_KEY_COLUMNS](#)

3.2.310. USER_PART_LOBS

Displays LOBs which belong to the partitioned tables that the current user owns.

- See also

[ALL_PART_LOBS](#)

[DBA_PART_LOBS](#)

3.2.311. USER_PART_TABLES

Displays partitioning information of the partitioned tables that the current user owns.

- See also

[ALL_PART_TABLES](#)

[DBA_PART_TABLES](#)

3.2.312. USER_PROCEEDURES

Displays all procedures that the current user owns.

- See also

[ALL_PROCEEDURES](#)

[DBA_PROCEEDURES](#)

3.2.313. USER_QUEUES

Describes the operational characteristics of every queue owned by the current user.

- See also

[ALL_QUEUES](#)

[DBA_QUEUES](#)

3.2.314. USER_QUEUE_SUBSCRIBERS

Shows the list of subscribers on queues that are under the current user's schema.

- See also

[ALL_QUEUE_SUBSCRIBERS](#)

[DBA_QUEUE_SUBSCRIBERS](#)

3.2.315. USER_QUEUE_TABLES

Describes the queues in the queue tables created in the current user's schema.

- See also

[ALL_QUEUE_TABLES](#)

[DBA_QUEUE_TABLES](#)

3.2.316. USER_RECYCLEBIN

Displays information of all temporarily deleted objects that the current user owns. The columns are the same as those in ALL_RECYCLEBIN.

- See also

[ALL_RECYCLEBIN](#)

[DBA_RECYCLEBIN](#)

3.2.317. USER_ROLE_PRIVS

Displays roles granted to the current user.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user or role which was granted the role
GRANTED_ROLE	VARCHAR(128)	Granted role
ADMIN_OPTION	VARCHAR(3)	Whether or not the role was assigned with ADMIN OPTION - YES - NO

Column Name	Data Type	Description
		- ERR
DEFAULT_ROLE	VARCHAR(3)	Whether the role is set to default role for the user - YES - NO - ERR

- See also

[DBA_ROLE_PRIVS](#)

3.2.318. USER_SCHEDULER_CHAINS

Displays all scheduler chains that the current user owns.

- See also

[ALL_SCHEDULER_CHAINS](#)

[DBA_SCHEDULER_CHAINS](#)

3.2.319. USER_SCHEDULER_JOBS

Displays all scheduler jobs that the current user owns.

- See also

[ALL_SCHEDULER_JOBS](#)

[DBA_SCHEDULER_JOBS](#)

3.2.320. USER_SCHEDULER_JOB_LOG

Displays all scheduler job log that the current user owns.

- See also

[ALL_SCHEDULER_JOB_LOG](#)

[DBA_SCHEDULER_JOB_LOG](#)

3.2.321. USER_SCHEDULER_JOB_RUN_DETAILS

Displays all scheduler job run details that the current user owns.

- See also

[ALL_SCHEDULER_JOB_RUN_DETAILS](#)

[DBA_SCHEDULER_JOB_RUN_DETAILS](#)

3.2.322. USER_SCHEDULER_PROGRAMS

Displays all scheduler programs that the current user owns.

- See also

[ALL_SCHEDULER_PROGRAMS](#)

[DBA_SCHEDULER_PROGRAMS](#)

3.2.323. USER_SCHEDULER_RULES

Displays all scheduler rules that the current user owns.

- See also

[ALL_SCHEDULER_RULES](#)

[DBA_SCHEDULER_RULES](#)

3.2.324. USER_SCHEDULER_RULE_CTX

Displays all scheduler rule ctx that the current user owns.

- See also

[ALL_SCHEDULER_RULE_CTX](#)

[DBA_SCHEDULER_RULE_CTX](#)

3.2.325. USER_SCHEDULER_RUNNING_JOBS

Displays all scheduler running jobs that the current user owns.

- See also

[ALL_SCHEDULER_RUNNING_JOBS](#)

[DBA_SCHEDULER_RUNNING_JOBS](#)

3.2.326. USER_SCHEDULER_SCHEDULES

Displays all scheduler schedules that the current user owns.

- See also

[ALL_SCHEDULER_SCHEDULES](#)

[DBA_SCHEDULER_SCHEDULES](#)

3.2.327. USER_SCHEDULER_STEPS

Displays all scheduler steps that the current user owns.

- See also

[ALL_SCHEDULER_STEPS](#)

[DBA_SCHEDULER_STEPS](#)

3.2.328. USER_SCHEDULER_STEP_CTX

Displays all scheduler step context the current user owns.

- See also

[ALL_SCHEDULER_STEP_CTX](#)

[DBA_SCHEDULER_STEP_CTX](#)

3.2.329. USER_SEGMENTS

Displays all segments which belong to the current user.

- See also

[ALL_SEGMENTS](#)

[DBA_SEGMENTS](#)

3.2.330. USER_SEQUENCES

Displays all sequences that the current user owns.

- See also

[ALL_SEQUENCES](#)

[DBA_SEQUENCES](#)

3.2.331. USER_SOURCE

Displays source texts of the stored objects in the database such as procedures, functions, package bodies, or triggers.

- See also

[ALL_SOURCE](#)

[DBA_SOURCE](#)

3.2.332. USER_SUBPART_KEY_COLUMNS

Displays subpartitioning key columns of the partitioned tables or indexes that the current user owns.

- See also

[ALL_SUBPART_KEY_COLUMNS](#)

[DBA_SUBPART_KEY_COLUMNS](#)

3.2.333. USER_SYNONYMS

Displays synonyms that the current user owns.

- See also

[ALL_SYNONYMS](#)

[DBA_SYNONYMS](#)

3.2.334. USER_SYS_PRIVS

Displays system privileges granted to the current user.

- Columns

Column Name	Data Type	Description
USERNAME	VARCHAR(128)	Name of the current user or PUBLIC
PRIVILEGE	VARCHAR(40)	Name of the privilege
ADMIN_OPTION	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES - NO - ERR

- See also

[DBA_SYS_PRIVS](#)

3.2.335. USER_TABLES

Displays all tables that the current user owns.

- See also

[ALL_TABLES](#)

[DBA_TABLES](#)

3.2.336. USER_TABLESPACES

Synonym for DBA_TABLESPACES.

- Columns

Column Name	Data Type	Description
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace that contains the table
TS_ID	NUMBER	ID of the tablespace
DATAFILE_COUNT	NUMBER	The number of data files
BLOCK_SIZE	NUMBER	Size of the tablespace block

Column Name	Data Type	Description
NEXT_EXTENT	NUMBER	Size of the next extent
STATUS	VARCHAR(9)	Current status of the tablespace - ONLINE - OFFLINE
CONTENTS	VARCHAR(9)	Contents of the tablespace - TEMPORARY - PERMANENT - UNDO
LOGGING	VARCHAR(9)	Whether logging is enabled or not - YES - NO
FORCE_LOGGING	VARCHAR(3)	Whether force logging is enabled or not - YES - NO
ALLOCATION_TYPE	VARCHAR(7)	Type of extent allocation in effect for the tablespace: - SYSTEM - UNIFORM
ENCRYPTED	VARCHAR(3)	Whether tablespace encryption is enabled or not - YES - NO
INITIAL_EXTENT	NUMBER	Default initial extent size
MIN_EXTENTS	NUMBER	Default minimum number of extents
MAX_EXTENTS	NUMBER	Default maximum number of extents
EXTENT_MANAGEMENT	VARCHAR(5)	Type of extent management - LOCAL

Column Name	Data Type	Description
SEG MENT_SPACE_MAN AGEMENT	VARCHAR(4)	Type of segment space management - AUTO

- See also

[DBA_TABLESPACES](#)

3.2.337. USER_TAB_COLS

Synonym for USER_TBL_COLS.

- Columns

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column
DATA_LENGTH	NUMBER	Column length (in bytes)
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column
DATA_DEFAULT	LONG	Default value of the column
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)
NUM_NULLS	NUMBER	(Not supported)
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column

Column Name	Data Type	Description
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column
HIDDEN_COLUMN	VARCHAR(1)	(Not supported)
SEGMENT_COLUMN_ID	NUMBER	(Not supported)
INTERNAL_COLUMN_ID	NUMBER	(Not supported)
QUALIFIED_COLUMN_NAME	VARCHAR(4000)	(Not supported)

- See also

[ALL_TAB_COLS](#)

[ALL_TBL_COLS](#)

[DBA_TAB_COLS](#)

[DBA_TBL_COLS](#)

[USER_TBL_COLS](#)

3.2.338. USER_TAB_COLUMNS

Synonym for USER_TBL_COLUMNS.

- Columns

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table or view
COLUMN_NAME	VARCHAR(128)	Name of the column
DATA_TYPE	VARCHAR(128)	Data type of the column

Column Name	Data Type	Description
DATA_TYPE_OWNER	VARCHAR(128)	Owner of the datatype of the column
DATA_LENGTH	NUMBER	Column length (in bytes)
DATA_PRECISION	NUMBER	Precision level of the column value
DATA_SCALE	NUMBER	Scale of the column value
NULLABLE	VARCHAR(1)	Whether NULL values are allowed or not - Y - N (It is set to "N" if NOT NULL constraints are defined or the column is a part of the primary key)
COLUMN_ID	NUMBER	ID of the column
DATA_DEFAULT	LONG	Default value of the column
DEFAULT_LENGTH	NUMBER	Default column length (in bytes)
CHAR_COL_DE CL_LENGTH	NUMBER	Maximum number of characters that can fit in the column
CHAR_LENGTH	NUMBER	Column length in characters
CHAR_USED	VARCHAR(1)	Length semantics of the column - C - B (It is set to "C" if the length was specified in characters, "B" if in bytes)
VIRTUAL_COLUMN	VARCHAR(1)	Whether the column is a virtual column

- See also

[ALL_TAB_COLUMNS](#)

[ALL_TBL_COLUMNS](#)

[ALL_TBL_COLUMNS_WITH_DNO](#)

[DBA_TAB_COLUMNS](#)

[DBA_TBL_COLUMNS](#)

[USER_TBL_COLUMNS](#)

3.2.339. USER_TAB_COL_STATISTICS

Synonym for USER_TBL_COL_STATISTICS.

- Columns

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
NUM_DISTINCT	NUMBER	The number of distinct values
LOW_VALUE	VARCHAR(4000)	The lowest value in the column
HIGH_VALUE	VARCHAR(4000)	The highest value in the column
DENSITY	NUMBER	Density of the column
NUM_NULLS	NUMBER	The number of NULL values
NUM_BUCKETS	NUMBER	The number of buckets for the histogram
LAST_ANALYZED	DATE	Date of the most recent analysis for the column
SAMPLE_SIZE	NUMBER	Size of the sample used for analyzing statistics for the column
AVG_COL_LEN	NUMBER	Average length of the column (in bytes)
HISTOGRAM	VARCHAR(15)	Indicates the type of histogram

- See also

[ALL_TAB_COL_STATISTICS](#)

[ALL_TBL_COL_STATISTICS](#)

[DBA_TAB_COL_STATISTICS](#)

[DBA_TBL_COL_STATISTICS](#)

[USER_TBL_COL_STATISTICS](#)

3.2.340. USER_TAB_COMMENTS

Displays comments on all tables and views that the current user owns.

- Columns

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the object
TABLE_TYPE	VARCHAR(9)	Type of the object
COMMENTS	VARCHAR(4000)	Comment on the object

- See also

[USER_TBL_COMMENTS](#)

3.2.341. USER_TAB_HISTOGRAMS

Synonym for USER_TBL_HISTOGRAMS.

- Columns

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table
COLUMN_NAME	VARCHAR(128)	Name of the column
ENDPOINT_NUMBER	NUMBER	History bucket number
ENDPOINT_VALUE	NUMBER	End point value of the current bucket
ENDPOINT_ACTUAL_VALUE	VARCHAR(4000)	Actual string value of the end point value of the current bucket

- See also

[ALL_TAB_HISTOGRAMS](#)

[ALL_TBL_HISTOGRAMS](#)

[DBA_TAB_HISTOGRAMS](#)

[DBA_TBL_HISTOGRAMS](#)

3.2.342. USER_TAB_IDENTITY_COLS

Displays identity columns of all tables that the current user owns.

- See also

[ALL_TAB_IDENTITY_COLS](#)

[DBA_TAB_IDENTITY_COLS](#)

3.2.343. USER_TAB_PARTITIONS

Synonym for USER_TBL_PARTITIONS.

- Columns

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the table
COMPOSITE	VARCHAR(3)	Whether or not the partition belongs to a composite-partitioned table - YES - NO
PARTITION_NAME	VARCHAR(128)	Name of the table partition
SUBPARTITION_COUNT	NUMBER	The number of subpartitions which belong to the partition
BOUND	LONG	Partition bound value
PARTITION_NO	NUMBER	Partition number within the table
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter

Column Name	Data Type	Description
COMPRESSION	VARCHAR(3)	Whether or not the table partition has been compressed - YES - NO
COMPRESS_FOR	VARCHAR(12)	Compression level of the partition - QUERY LOW - QUERY HIGH - ARCHIVE LOW - ARCHIVE HIGH - NULL
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
NUM_ROWS	NUMBER	The number of rows within the table partition
BLOCKS	NUMBER	The number of data blocks containing information about the table partition
LAST_ANALYZED	DATE	Date of the most recent analysis for the table partition
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO

- See also

[ALL_TAB_PARTITIONS](#)

[ALL_TBL_PARTITIONS](#)

[DBA_TAB_PARTITIONS](#)

[DBA_TBL_PARTITIONS](#)

[USER_TBL_PARTITIONS](#)

3.2.344. USER_TAB_PRIVS

Synonym for USER_TBL_PRIVS.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted
OWNER	VARCHAR(128)	Owner of the object
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with GRANT OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TAB_PRIVS](#)

[ALL_TBL_PRIVS](#)

[DBA_TAB_PRIVS](#)

[DBA_TBL_PRIVS](#)

[USER_TBL_PRIVS](#)

3.2.345. USER_TAB_PRIVS_MADE

Synonym for USER_TBL_PRIVS_MADE.

- Columns

Column Name	Data Type	Description
GRANTEE	VARCHAR(128)	Name of the user to whom the privilege was granted

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the object owner
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[ALL_TAB_PRIVS_MADE](#)

[ALL_TBL_PRIVS_MADE](#)

[USER_TBL_PRIVS_MADE](#)

3.2.346. USER_TAB_PRIVS_RECD

Synonym for USER_TBL_PRIVS_RECD.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the object owner
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES

Column Name	Data Type	Description
		- NO
TYPE	VARCHAR(23)	Type of the object

- See also

[USER_TBL_PRIVS_RECD](#)

3.2.347. USER_TBL_COLS

Displays columns of all tables and views that the current user owns.

- See also

[ALL_TAB_COLS](#)

[ALL_TBL_COLS](#)

[DBA_TAB_COLS](#)

[DBA_TBL_COLS](#)

[USER_TAB_COLS](#)

3.2.348. USER_TBL_COLUMNS

Displays columns of all tables and views that the current user owns.

- See also

[ALL_TAB_COLUMNS](#)

[ALL_TBL_COLUMNS](#)

[ALL_TBL_COLUMNS_WITH_DNO](#)

[DBA_TAB_COLUMNS](#)

[DBA_TBL_COLUMNS](#)

[USER_TAB_COLUMNS](#)

3.2.349. USER_TBL_COL_STATISTICS

Displays statistics and a histogram of columns by extracting them from USER_TBL_COLUMNS.

- See also

[ALL_TAB_COL_STATISTICS](#)

[ALL_TBL_COL_STATISTICS](#)

[DBA_TAB_COL_STATISTICS](#)

[DBA_TBL_COL_STATISTICS](#)

[USER_TAB_COL_STATISTICS](#)

3.2.350. USER_TBL_COMMENTS

Synonym for USER_TAB_COMMENTS.

- Columns

Column Name	Data Type	Description
TABLE_NAME	VARCHAR(128)	Name of the object
TABLE_TYPE	VARCHAR(9)	Type of the object
COMMENTS	VARCHAR(4000)	Comment on the object

- See also

[USER_TAB_COMMENTS](#)

3.2.351. USER_TBL_HISTOGRAMS

Displays histogram information of tables that the current user owns.

- See also

[ALL_TAB_HISTOGRAMS](#)

[ALL_TBL_HISTOGRAMS](#)

[DBA_TAB_HISTOGRAMS](#)

[DBA_TBL_HISTOGRAMS](#)

[USER_TAB_HISTOGRAMS](#)

3.2.352. USER_TBL_PARTITIONS

Displays partition information of all tables that the current user owns.

- See also

[ALL_TAB_PARTITIONS](#)

[ALL_TBL_PARTITIONS](#)

[DBA_TAB_PARTITIONS](#)

[DBA_TBL_PARTITIONS](#)

[USER_TAB_PARTITIONS](#)

3.2.353. USER_TBL_PRIVS

Displays object privileges granted on all tables for which the current user is the object owner, grantor, or grantee.

- See also

[ALL_TAB_PRIVS](#)

[ALL_TBL_PRIVS](#)

[DBA_TAB_PRIVS](#)

[DBA_TBL_PRIVS](#)

[USER_TAB_PRIVS](#)

3.2.354. USER_TBL_PRIVS_MADE

Displays object privileges granted on tables for which the current user is the object owner.

- See also

[ALL_TAB_PRIVS_MADE](#)

[ALL_TBL_PRIVS_MADE](#)

[USER_TAB_PRIVS_MADE](#)

3.2.355. USER_TBL_PRIVS_RECD

Displays object privileges granted on tables for which the current user is the object grantee.

- Columns

Column Name	Data Type	Description
OWNER	VARCHAR(128)	Name of the object owner
TABLE_NAME	VARCHAR(128)	Name of the object
GRANTOR	VARCHAR(128)	Name of the user who granted the privilege
PRIVILEGE	VARCHAR(40)	Name of the privilege to the table
GRANTABLE	VARCHAR(3)	Whether or not the privilege was granted with ADMIN OPTION - YES - NO
TYPE	VARCHAR(23)	Type of the object

- See also

[USER_TAB_PRIVS_RECD](#)

3.2.356. USER_TRIGGERS

Displays all triggers that the current user owns.

- See also

[ALL_TRIGGERS](#)

[DBA_TRIGGERS](#)

3.2.357. USER_TRIGGER_COLS

Displays column information of all triggers that the current user owns and all triggers on tables that the current user owns. The columns are the same as those in ALL_TRIGGER_COLS.

- See also

[ALL_TRIGGER_COLS](#)

[DBA_TRIGGER_COLS](#)

3.2.358. USER_TYPES

Displays all types that the current user owns.

- See also

[ALL_TYPES](#)

[DBA_TYPES](#)

3.2.359. USER_TYPE_ATTRS

Displays all the attributes of this type that the current user owns.

- See also

[ALL_TYPE_ATTRS](#)

[DBA_TYPE_ATTRS](#)

3.2.360. USER_TYPE_METHODS

Displays all the methods of this type that the current user owns.

- See also

[ALL_TYPE_METHODS](#)

[DBA_TYPE_METHODS](#)

3.2.361. USER_UPDATABLE_COLUMNS

Displays all join view columns that the current user can update.

- See also

[ALL_UPDATABLE_COLUMNS](#)

[DBA_UPDATABLE_COLUMNS](#)

3.2.362. USER_USERS

Displays a description on the current user.

- Columns

Column Name	Data Type	Description
USERNAME	VARCHAR(128)	Name of the user
USER_ID	NUMBER	ID of the user
ACCOUNT_STATUS	VARCHAR(30)	Account status - LOCKED - EXPIRED - LOCKED(TIMED) - EXPIRED(GRACE) - EXPIRED & LOCKED(TIMED) - EXPIRED(GRACE) & LOCKED(TIMED) - EXPIRED(GRACE) & LOCKED - EXPIRED & LOCKED - OPEN
LOCK_DATE	DATE	Date that the account was locked
EXPIRY_DATE	DATE	Date that the account was expired
DEFAULT_TABLESPACE	VARCHAR(128)	Default tablespace for data
CREATED	DATE	Date that the user was created

- See also

[ALL_USERS](#)

[DBA_USERS](#)

3.2.363. USER_VIEWS

Displays all views that the current user owns.

- See also

[ALL_VIEWS](#)

[ALL_VIEWS_INTERNAL](#)

[DBA_VIEWS](#)

3.2.364. all_dba_subpartition_templates

displays all subpartition templates that the current user can access.

- Columns

Column Name	Data Type	Description
user_name	varchar(30)	name of the user
table_name	varchar(30)	name of the table
subpartition_name	varchar	name of subpartition
subpartition_position	number	position of the subpartition
tablespace_name	varchar(30)	tablespace name of the subpartition
high_bound	long	literal list values of the subpartition

- See also

[dba_subpartition_templates](#)

[user_idx_partitions](#)

3.2.365. all_idx_partitions

displays partitions of the indexes that the current user can access.

- Columns

Column Name	Data Type	Description
owner	varchar(128)	name of the user
index_name	varchar(128)	name of the index

Column Name	Data Type	Description
composite	varchar(3)	whether or not partition belongs to a composite-partitioned index - yes - no
partition_name	varchar(128)	name of the partition
subpartition_count	number	the number of the subpartitions that belong to the partition
bound	long	partition bound value
partition_no	number	partition number within the index
blevel	number	level of b-tree index (the level is 0 for a b-tree with only a root node)
LEAF_BLOCKS	NUMBER	The number of leaf blocks in the index
DISTINCT_KEYS	NUMBER	The number of distinct keys in the index
CLUSTERING_FACTOR	NUMBER	The clustering factor of the index
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
NUM_ROWS	NUMBER	The number of rows in the index
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT

Column Name	Data Type	Description
		- KEEP - RECYCLE
MAX_TRANS	NUMBER	Value of the MAX_TRANS parameter
INITIAL_EXTENT	NUMBER	Value of the INITIAL_EXTENT parameter
MIN_EXTENT	NUMBER	Value of the MIN_EXTENT parameter
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
LAST_ANALYZED	DATE	Date of the most recent analysis for the index partition

- See also

[all_ind_partitions](#)

[dba_idx_partitions](#)

[dba_ind_partitions](#)

[user_idx_partitions](#)

[user_ind_partitions](#)

3.2.366. all_ind_partitions

synonym for all_idx_partitions.

- Columns

Column Name	Data Type	Description
owner	varchar(128)	name of the user
index_name	varchar(128)	name of the index
composite	varchar(3)	whether or not partition belongs to a composite-partitioned index - yes

Column Name	Data Type	Description
		- no
partition_name	varchar(128)	name of the partition
subpartition_count	number	the number of the subpartitions that belong to the partition
bound	long	partition bound value
partition_no	number	partition number within the index
blevel	number	level of b-tree index (the level is 0 for a b-tree with only a root node)
LEAF_BLOCKS	NUMBER	The number of leaf blocks in the index
DISTINCT_KEYS	NUMBER	The number of distinct keys in the index
CLUSTERING_FACTOR	NUMBER	The clustering factor of the index
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
NUM_ROWS	NUMBER	The number of rows in the index
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
MAX_TRANS	NUMBER	Value of the MAX_TRANS parameter

Column Name	Data Type	Description
INITIAL_EXTENT	NUMBER	Value of the INITIAL_EXTENT parameter
MIN_EXTENT	NUMBER	Value of the MIN_EXTENT parameter
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
LAST_ANALYZED	DATE	Date of the most recent analysis for the index partition

- See also

[all_idx_partitions](#)

[dba_idx_partitions](#)

[dba_ind_partitions](#)

[user_idx_partitions](#)

[user_ind_partitions](#)

3.2.367. dba_idx_partitions

displays all index partitions in the database.

- Columns

Column Name	Data Type	Description
owner	varchar(128)	name of the user
index_name	varchar(128)	name of the index
composite	varchar(3)	whether or not partition belongs to a composite-partitioned index - yes - no
partition_name	varchar(128)	name of the partition
subpartition_count	number	the number of the subpartitions that belong to the partition

Column Name	Data Type	Description
bound	long	partition bound value
partition_no	number	partition number within the index
blevel	number	level of b-tree index (the level is 0 for a b-tree with only a root node)
LEAF_BLOCKS	NUMBER	The number of leaf blocks in the index
DISTINCT_KEYS	NUMBER	The number of distinct keys in the index
CLUSTERING_FACTOR	NUMBER	The clustering factor of the index
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
NUM_ROWS	NUMBER	The number of rows in the index
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
MAX_TRANS	NUMBER	Value of the MAX_TRANS parameter
INITIAL_EXTENT	NUMBER	Value of the INITIAL_EXTENT parameter
MIN_EXTENT	NUMBER	Value of the MIN_EXTENT parameter
LOGGING	VARCHAR(3)	Whether logging is enabled or not

Column Name	Data Type	Description
		- YES - NO
LAST_ANALYZED	DATE	Date of the most recent analysis for the index partition

- See also

[all_idx_partitions](#)

[all_ind_partitions](#)

[dba_ind_partitions](#)

[user_idx_partitions](#)

[user_ind_partitions](#)

3.2.368. dba_ind_partitions

synonym for dba_idx_partitions.

- Columns

Column Name	Data Type	Description
owner	varchar(128)	name of the user
index_name	varchar(128)	name of the index
composite	varchar(3)	whether or not partition belongs to a composite-partitioned index - yes - no
partition_name	varchar(128)	name of the partition
subpartition_count	number	the number of the subpartitions that belong to the partition
bound	long	partition bound value
partition_no	number	partition number within the index

Column Name	Data Type	Description
blevel	number	level of b-tree index (the level is 0 for a b-tree with only a root node)
LEAF_BLOCKS	NUMBER	The number of leaf blocks in the index
DISTINCT_KEYS	NUMBER	The number of distinct keys in the index
CLUSTERING_FACTOR	NUMBER	The clustering factor of the index
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
NUM_ROWS	NUMBER	The number of rows in the index
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
MAX_TRANS	NUMBER	Value of the MAX_TRANS parameter
INITIAL_EXTENT	NUMBER	Value of the INITIAL_EXTENT parameter
MIN_EXTENT	NUMBER	Value of the MIN_EXTENT parameter
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
LAST_ANALYZED	DATE	Date of the most recent analysis for the index partition

- See also

[all_idx_partitions](#)

[all_ind_partitions](#)

[dba_idx_partitions](#)

[user_idx_partitions](#)

[user_ind_partitions](#)

3.2.369. dba_subpartition_templates

displays all subpartition templates in the database.

- Columns

Column Name	Data Type	Description
user_name	varchar(30)	name of the user
table_name	varchar(30)	name of the table
subpartition_name	varchar	name of subpartition
subpartition_position	number	position of the subpartition
tablespace_name	varchar(30)	tablespace name of the subpartition
high_bound	long	literal list values of the subpartition

- See also

[all_dba_subpartition_templates](#)

[user_idx_partitions](#)

3.2.370. user_idx_partitions

displays partitions of the indexes that the current user owns.

- Columns

Column Name	Data Type	Description
index_name	varchar(128)	name of the index

Column Name	Data Type	Description
composite	varchar(3)	whether or not partition belongs to a composite-partitioned index - yes - no
partition_name	varchar(128)	name of the partition
subpartition_count	number	the number of the subpartitions that belong to the partition
bound	long	partition bound value
partition_no	number	partition number within the index
blevel	number	level of b-tree index (the level is 0 for a b-tree with only a root node)
LEAF_BLOCKS	NUMBER	The number of leaf blocks in the index
DISTINCT_KEYS	NUMBER	The number of distinct keys in the index
CLUSTERING_FACTOR	NUMBER	The clustering factor of the index
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
NUM_ROWS	NUMBER	The number of rows in the index
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT

Column Name	Data Type	Description
		- KEEP - RECYCLE
MAX_TRANS	NUMBER	Value of the MAX_TRANS parameter
INITIAL_EXTENT	NUMBER	Value of the INITIAL_EXTENT parameter
MIN_EXTENT	NUMBER	Value of the MIN_EXTENT parameter
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
LAST_ANALYZED	DATE	Date of the most recent analysis for the index partition

- See also

[all_idx_partitions](#)

[all_ind_partitions](#)

[dba_idx_partitions](#)

[dba_ind_partitions](#)

[user_ind_partitions](#)

3.2.371. user_ind_partitions

synonym for user_idx_partitions.

- Columns

Column Name	Data Type	Description
owner	varchar(128)	name of the user
index_name	varchar(128)	name of the index
composite	varchar(3)	whether or not partition belongs to a composite-partitioned index - yes

Column Name	Data Type	Description
		- no
partition_name	varchar(128)	name of the partition
subpartition_count	number	the number of the subpartitions that belong to the partition
bound	long	partition bound value
partition_no	number	partition number within the index
blevel	number	level of b-tree index (the level is 0 for a b-tree with only a root node)
LEAF_BLOCKS	NUMBER	The number of leaf blocks in the index
DISTINCT_KEYS	NUMBER	The number of distinct keys in the index
CLUSTERING_FACTOR	NUMBER	The clustering factor of the index
STATUS	VARCHAR(8)	Current status of the index - USABLE - UNUSABLE
NUM_ROWS	NUMBER	The number of rows in the index
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the partition belongs
PCT_FREE	NUMBER	Value of the PCTFREE parameter
INI_TRANS	NUMBER	Value of the INITRANS parameter
NEXT_EXTENT	NUMBER	Size of the next extent
MAX_EXTENTS	NUMBER	Value of the MAX EXTENTS parameter
BUFFER_POOL	VARCHAR(7)	Type of the buffer pool - DEFAULT - KEEP - RECYCLE
MAX_TRANS	NUMBER	Value of the MAX_TRANS parameter

Column Name	Data Type	Description
INITIAL_EXTENT	NUMBER	Value of the INITIAL_EXTENT parameter
MIN_EXTENT	NUMBER	Value of the MIN_EXTENT parameter
LOGGING	VARCHAR(3)	Whether logging is enabled or not - YES - NO
LAST_ANALYZED	DATE	Date of the most recent analysis for the index partition

- See also

[all_idx_partitions](#)

[all_ind_partitions](#)

[dba_idx_partitions](#)

[dba_ind_partitions](#)

[user_idx_partitions](#)

제4장 Dynamic View

4.1. Overview

A **dynamic view**, which is also called Dynamic Performance View (DPV), belongs to the SYS user schema. Dynamic views are used by the DBA to monitor the internal operating status of Tiberio and thus users are required to have DBA authority when viewing most of the dynamic views.

Unlike static views providing structural information of the database, dynamic views provide status information of the database at a specific point in time. As the information of dynamic views is provided by information stored in memory and control files, it provides accurate information of the current status of the database.

As the information written to memory and the control file reflects changes over time, dynamic views are recommended for database monitoring and tuning. The dynamic views can be seen using the tbSQL tool, but are not updatable or deletable as they are managed by system.

4.2. List of Dynamic Views

This section provides the list of dynamic views of Tiberio in alphabetical order and describes the columns which corresponds to each dynamic view in the table.

The following is the list of summarized dynamic views:

Dynamic View	Description
V\$ACCESS	Displays information for the objects that the session is accessing.
V\$ACTIVE_SESSION_HISTORY	Displays information on the active session history. To enable ACTIVE_SESSION_HISTORY, TOTAL_SHM_SIZE needs to be greater than 2GB.
V\$ALL_FILESTAT	Displays statistics of data file and temp file I/O.
V\$ARCHIVED_LOG	Displays archive log information.
V\$ARCHIVE_DEST_FILES	Displays archive log information for archive log files in LOG_ARCHIVE_DEST.
V\$AS_ALIAS	All Aliases in all disk spaces mounted by the AS instance.
V\$AS_DISK	All disks discovered by the AS instance.
V\$AS_DISKSPACE	All disk spaces discovered by the AS instance.
V\$AS_DISK_HISTORY	All disks discovered by the AS instance.

Dynamic View	Description
V\$AS_EXTENT_MAP	Extent map of each file in each disk space
V\$AS_FILE	All files in all disk spaces mounted by the AS instance.
V\$AS_OPERATION	Ongoing operations in each disk space
V\$AS_USER	All users in all disk spaces mounted by the AS instance.
V\$AS_USERGROUP	All usergroups in all disk spaces mounted by the AS instance.
V\$AS_USERGROUP_MEMBER	Each group members in all disk spaces mounted by the AS instance.
V\$AUTO_COALESCE	Displays statistics of an index auto coalesce operations
V\$BACKUP	Displays the status of online backup.
V\$BACKUP_ARCHIVED_LOG	Displays information of backup archive logs.
V\$BACKUP_LIST	Displays information of backed up files in view.
V\$BACKUP_LIST_ARCHIVELOG	Displays information of backed up archive logfiles.
V\$BACKUP_LIST_CONTROLFILE	Displays information of backed up datafiles.
V\$BACKUP_LIST_DATAFILE	Displays information of backed up datafiles.
V\$BACKUP_SET	Displays information of backup sets.
V\$BACKUP_SET_TABLESPACE	Displays information of backup tablespace
V\$BG_SESSION	Displays information on each background session.
V\$BG_SESSTAT	Displays statistics of each background session.
V\$BH	Displays information for all buffers.
V\$BLOCKER_SESSION	Displays blocker sessions which are not blocked by other session.
V\$BPARAMETERS	Views the value of the parameter set in BTIP.
V\$BUFFER_CACHE_ADVICE	Display the estimate hit ratios
V\$BUFFER_POOL	Displays information for buffer pools.
V\$BUFFER_POOL_STATISTICS	Displays statistics of buffer pools.
V\$CHECKPOINT	Displays information for checkpoints.
V\$CLUSTER_INTERCONNECTS	Displays interconnects available for use in cluster communication.
V\$CONTEXT	Displays context attributes in the current session.
V\$CONTROLFILE	Displays information for control files.
V\$CORRUPT_XID	Displays transactions whose recovery is suspended.
V\$DATABASE	Displays database status information.
V\$DATAFILE	Displays information for data files in the database.
V\$DATAFILE_HEADER	Displays information of ONLINE datafiles by extracting it from file headers.

Dynamic View	Description
V\$DBFILE	Displays datafile names in the database.
V\$DBLINK	Displays information for the open database links in the current session.
V\$DBLINK_STATUS	Displays gateway and remote session information for the open database links in each session.
V\$DB_PIPES	Displays DBMS_PIPE information.
V\$ENCRYPTED_TABLESPACES	Displays information on encrypted tablespaces.
V\$ENCRYPTION_WALLET	Displays information of the status of the wallet.
V\$ENQUEUE_STAT	Displays statistics of locks.
V\$EST_CHECKPOINT_TIME	Displays information for estimated checkpoint time.
V\$EVENT_NAME	Displays event names.
V\$FILESTAT	Displays file read/write statistics.
V\$FLASHBACK_ARCHIVED_LOG	Displays flashback archive log information.
V\$FLASHBACK_LOG	Displays information of flashback log groups.
V\$FLASHBACK_MARKER	Displays flashback markers for flashback database.
V\$GLOBAL_TRANSACTION	Displays information of the currently running global transactions.
V\$INSTANCE	Displays instance statuses.
V\$INSTANCEMETRIC	Shows the load status of the current node in TAC.
V\$INSTANCEMETRIC_HISTORY	Shows the load status of the current node in TAC.
V\$INTERCONNECTION	Displays informations of interconnections in cluster
V\$INTERCONNECT_LATENCY	Displays interconnect latency in cluster
V\$IPARAM_DESC	Displays initialization parameters.
V\$LATCH	Displays spinlock information.
V\$LIBRARYCACHE	Displays information of PP cache and DD cache.
V\$LICENSE	Displays license information.
V\$LOCK	Displays locks that are currently in use.
V\$LOCKED_OBJECT	Displays session, transaction, object, lock info that are currently locked.
V\$LOG	Displays information of log groups.
V\$LOGFILE	Displays information of log member files.
V\$LOG_HISTORY	Displays log history information.
V\$MEDIA_RECOVERY_PROGRESS	Displays the progress of media recovery.

Dynamic View	Description
V\$MEMORY_TABLESPACE	Displays information for memory tablespace data files in the database.
V\$METRIC	Displays information on the metric history.
V\$METRICNAME	Displays specifications of the metrics.
V\$MYSTAT	Displays statistics of the current session.
V\$OBJECT_USAGE	Displays statistics about index usage gathered from the database for the indexes owned by the current user.
V\$OPEN_CURSOR	Displays information for all open cursors for each session
V\$OSSTAT	Displays various OS statistics.
V\$OSSTAT2	Displays various OS statistics.
V\$OUTLINE	Displays outline hints in PPC
V\$PARAMETERS	Displays values of initialization parameters.
V\$PATCH	Displays list of patch files.
V\$PE_PESPLAN	Displays elapsed time information of PES in the format of SQL execution plan.
V\$PE_PESSTAT	Displays statistics of each PES for parallel processing.
V\$PE_PROCESS	Displays information of each parallel execution process currently allocated by QC session.
V\$PE_SESSION	Displays sessions in parallel processing.
V\$PE_SYSSTAT	Displays statistics of parallel execution.
V\$PE_TQSTAT	Displays statistics of table queues for parallel processing.
V\$PGASTAT	Displays statistics of PGA.
V\$PROCESS	Displays processes and threads used in RDBMS.
V\$PROXY_SQLTEXT	Displays texts of SQL statements that are remotely executed through the database link.
V\$PROXY_SQL_PARAM	Displays bind parameters of SQL statements that are remotely executed through the database link.
V\$RECOVERY_FILE_STATUS	Displays the status of a file that is being recovered.
V\$RECOVERY_PROGRESS	Displays recovery progress.
V\$RECOVERY_STATUS	Displays the status of media recovery progress.
V\$RECOVER_FILE	Displays files which require media recovery.
V\$RESERVED_WORDS	Displays a list of all SQL keywords.
V\$RESULT_CACHE_DEPENDENCY	Displays the depends-on relationship between cached result and dependencies.

Dynamic View	Description
V\$RESULT_CACHE_OBJECTS	Displays Result Cache Objects and their attributes.
V\$RESULT_CACHE_OBJECT_STATISTICS	Displays Result Cache Object statistics.
V\$RESULT_CACHE_STATISTICS	Displays various Result Cache settings and usage statistics.
V\$ROLLSTAT	Displays statistics of Undo usage.
V\$ROWCACHE	Displays details of status information on DD cache.
V\$RSBSTAT	Displays Stats of RSBs
V\$RSRC_CONSUMER_GROUP	Displays data related to currently active resource consumer groups
V\$RSRC_PLAN	Displays the names of all currently active resource plans
V\$RSRC_SESSION_INFO	Displays resource manager statistics per session
V\$RUNNING_JOBS	Displays information on running jobs.
V\$RUNNING_JOBS_WITH_NAME	Displays information on running jobs with name.
V\$SEGMENT_STATISTICS	!!! No documentation yet !!!
V\$SESSION	Displays information on each session.
V\$SESSION_EVENT	Displays events that are performed in each session.
V\$SESSION_IO	Displays input/output which occurred in each session.
V\$SESSION_LONGOPS	Displays status of sessions taking longer time than specified in LONGOPS_THRESHOLD_SEC seconds.
V\$SESSION_WAIT	Displays the waiting status of each session.
V\$SESSTAT	Displays statistics of each session.
V\$SESS_TIME_MODEL	Displays the session-level time statistics.
V\$SGA	Displays information on shared memory used in the database.
V\$SGASTAT	Displays information on the shared pool for a database, such as its purpose and how much of the shared pool is used.
V\$SHP_ADVICE	Displays advice information on the shared pool for a database, such as a recommended shared pool size.
V\$SLOG	Displays slog from the current system log file. Up to SLOG_VIEW_SIZE bytes are stored in the view.
V\$SPINLOCK HOLDER	Displays spinlock information.
V\$SPINUSE_STAT	Displays statistics of Spinlock.
V\$SQL	Displays details of a SQL child cursor execution.
V\$SQLAREA	Displays details of SQL statement execution.

Dynamic View	Description
V\$SQLSTATS	Displays information on SQL statement execution.
V\$SQLTEXT	Displays texts of SQL statements belonging to the cursor.
V\$SQLTEXT2	Displays texts of SQL statements belonging to the cursor.
V\$SQLTEXT_WITH_NEWLINES	Displays texts of SQL statements belonging to the cursor, without removing newline characters or blank characters.
V\$SQLTEXT_WITH_NEWLINES2	Displays texts of SQL statements belonging to the cursor, without removing newline characters or blank characters.
V\$SQL_BIND_CAPTURE	Displays the values of the captured bind variables from the current session
V\$SQL_BIND_CAPTURE_ALL	Displays the values of the captured bind variables from all sessions
V\$SQL_EXPC_INFO	Displays information about expression execution of a physical plan
V\$SQL_MONITOR	Shows the details of SQL statements that are currently being monitored or those that have been monitored through the real time SQL monitoring function.
V\$SQL_PLAN	Displays information on physical plans to execute SQL statements.
V\$SQL_PLAN_MONITOR	Displays plan level information about each SQL execution registered in V\$SQL_MONITOR. Each row corresponds to a single plan operation of one SQL execution.
V\$SQL_PLAN_STATISTICS	Displays statistics of results of each physical plan job.
V\$SQL_WORKAREA	Display information about work areas used by SQL cursors.
V\$SQL_WORKAREA_HISTOGRAM	Display the cumulative work area execution statistics
V\$SSVR_CLIENT	Displays information of valid connection to the storage server instance.
V\$SSVR_FLASHCACHE	Displays information of flashcaches used by the storage server instance.
V\$SSVR_GRID_DISK	Displays information of grid disks.
V\$SSVR_IOLOAD	IO load of storage server
V\$SSVR_IORM_CATEGORY_PLAN	Category Plan List used by the storage server instance
V\$SSVR_IORM_DB_PLAN	DB Plan List used by the storage server instance
V\$SSVR_IOSTAT	IO stat per sec of storage server
V\$SSVR_MEMSTAT	Memory stat of storage server
V\$SSVR_SLAB_STAT	used buffer slab information of storage server

Dynamic View	Description
V\$SSVR_STORAGE_DISK	Displays information of storage disks used by the storage server instance.
V\$STANDBY	Displays information on the database duplication in the RDBMS Standby Cluster.
V\$STANDBY_ARCHIVED_LOG	Displays standby archive log information.
V\$STANDBY_DEST	Displays information on the standby DB in the RDBMS Standby Cluster.
V\$STANDBY_LOG	Displays information of log groups.
V\$STANDBY_LOGFILE	Displays information of log member files.
V\$STANDBY_STATUS	Displays information on log duplication of the primary DB in the RDBMS Standby Cluster.
V\$STATNAME	Displays the detailed information on the statistics event.
V\$SYSSTAT	Displays statistics of a system.
V\$SYSSTAT_VALUE	Displays values for getting statistics of a system.
V\$SYSTEM_EVENT	Displays events performing in the system.
V\$SYSTEM_PARAMETERS	Displays system parameter values.
V\$SYS_TIME_MODEL	Displays the system-level time statistics.
V\$TABLESPACE	Displays information on tablespaces.
V\$TACSTAT	Displays statistics of a TAC.
V\$TEMPFILE	Displays temporary files in the database.
V\$TEMPSEG_OP_USAGE	Displays temporary segments usage in the server.
V\$TEMPSEG_USAGE	Displays temporary segments in the server.
V\$TEMPSTAT	Displays statistics of file I/O.
V\$THRINFO	Information on thr_info
V\$THR_ACT_INFO	Displays information on activities of the threads.
V\$THR_EVENT	Displays events that are performed in each thread.
V\$TIMER	Displays information on the system timer.
V\$TIMEZONE_NAMES	Displays timezone names.
V\$TRANSACTION	Displays ongoing transactions.
V\$TSN_TIME	Displays the mapping table of TSN and time.
V\$UNDOSTAT	Displays statistics of Undo storage.
V\$UNDO_FREE_SPACE	Displays free space in block count for each UNDO tablespace.
V\$USGMT_TXENTRY	Displays undo segment transaction entry information.

Dynamic View	Description
V\$VERSION	Displays RDBMS version information.
V\$WAITER_SESSION	Displays information on the sessions that wait for a lock acquisition
V\$WAITSTAT	Displays information on block wait events for each block type and class
V\$WAITUSE_STAT	Displays information on block wait events
V\$WAITUSE_THR_STAT	Displays information on block wait events for each block type, class, and pin usage

4.2.1. V\$ACCESS

Displays information for the objects that the session is accessing.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
OWNER	VARCHAR(128)	Owner of the object
OBJECT	VARCHAR(128)	Name of the object
TYPE	VARCHAR(23)	Type of the object

4.2.2. V\$ACTIVE_SESSION_HISTORY

Displays information on the active session history. To enable ACTIVE_SESSION_HISTORY, TO TAL_SHM_SIZE needs to be greater than 2GB.

- Columns

Column Name	Data Type	Description
SAMPLE_ID	NUMBER	Sample ID
THREAD#	NUMBER	Thread#
SAMPLE_TIME	DATE	Sample Time
SID	NUMBER	Session ID
SESS_SERIAL_NO	NUMBER	A serial number of a session

Column Name	Data Type	Description
USER_NO	NUMBER	The user's ID
USERNAME	VARCHAR(128)	The user's Name
IPADDR	VARCHAR(21)	IP to which the user connects
WAIT_EVENT	NUMBER	Type of the wait event which the session waits
ID1	NUMBER	First Parameter
ID2	NUMBER	Second Parameter
WE_SEQ	NUMBER	Sequence# of the Wait Event
TIME_WAITED	NUMBER	The amount of time waited for this event (msec)
WAIT_OBJ_ID	NUMBER	ID of the object which the session waits
WAIT_FILE_NO	NUMBER	Number of the file which the session waits
WAIT_BLOCK_NO	NUMBER	Number of the block which the session waits
WAIT_ROW_NO	NUMBER	Number of the row which the session waits
USGMT_ID	NUMBER	USGMT number at the time of sampling
SLOTNO	NUMBER	Slot number at the time of sampling
WRAPNO	NUMBER	Wrap number at the time of sampling
SQL_ID	VARCHAR(13)	SQL identifier
SQL_CHILD_NUMBER	NUMBER	The number of this child physical plan
CURR_HASHVAL	NUMBER	SQL hash value
MODULE_NAME	VARCHAR(64)	Name of a module specified by dbms_application_info.set_module
ACTION_NAME	VARCHAR(64)	Name of an action specified by dbms_application_info.set_module/action
CLIENT_INFO_NAME	VARCHAR(64)	Name of client_info specified by dbms_application_info.set_client_info
PROG_NAME	VARCHAR(30)	Client program name

Column Name	Data Type	Description
SQL_EXEC_START	DATE	The time when the execution started.
SQL_EXEC_ID	NUMBER	Execution identifier. It is necessary to identify multiple simultaneous SQL executions. To identify a single SQL execution, three columns; SQL_ID, SQL_EXEC_START, and SQL_EXEC_ID must be defined. The three column values are used to match with corresponding rows in the V\$SQL_MONITOR.
SQL_PLAN_LINE_ID	NUMBER	Identifier of the plan operation
PORT	NUMBER	Client port number
DELTA_TIME	NUMBER	Time interval (in seconds) since the last time this session was sampled or created.
DELTA_PHY_READ_BKLS	NUMBER	The number of blocks read from disk over the last DELTA_TIME seconds
DELTA_LOG_READ_BKLS	NUMBER	The number of blocks read over the last DELTA_TIME seconds
PGA_SIZE	NUMBER	The amount of PGA memory consumed by this session

4.2.3. V\$ALL_FILESTAT

Displays statistics of data file and temp file I/O.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	File number
TEMPFILE	CHAR(1)	Whether this is tempfile
PHYRDS	NUMBER	The number of reading times
PHYWRTS	NUMBER	The number of writing times
PHYBLKRD	NUMBER	The number of read blocks
PHYBLKWRT	NUMBER	The number of written blocks

Column Name	Data Type	Description
SINGLEBLKRDS	NUMBER	The number of times of reading a single block
READTIM	NUMBER	Reading time (msec)
WRITETIM	NUMBER	Writing time (msec)
SINGLEBLKRDTIM	NUMBER	Time for which a single block was read (msec)
AVGIOTIM	NUMBER	Average I/O time (msec)
LSTIOTIM	NUMBER	Last I/O time (msec)
MINIOTIM	NUMBER	Shortest I/O time (msec)
MAXIORTM	NUMBER	Longest reading time (msec)
MAXIOWTM	NUMBER	Longest writing time (msec)

4.2.4. V\$ARCHIVED_LOG

Displays archive log information.

- Columns

Column Name	Data Type	Description
RECID	NUMBER	Archive log record ID
THREAD#	NUMBER	Log group number recorded by instances of a server
NAME	VARCHAR(256)	Archive log file path and name
SEQUENCE#	NUMBER	Sequence number of the log group
FIRST_CHANGE#	NUMBER	TSN associated with the first archive log that belongs to the log group
FIRST_TIME	DATE	Time when the first archive log that belongs to the log group was recorded
NEXT_CHANGE#	NUMBER	TSN associated with the next archive log that belongs to the log group

Column Name	Data Type	Description
NEXT_TIME	DATE	Time when the next archive log that belongs to the log group was recorded
RESET LOGS_CHANGE#	NUMBER	Resetlogs TSN of the database when the log was written
RESETLOGS_TIME	DATE	Resetlogs time of the database when the log was written
FILESIZE	NUMBER	Size of logfile in bytes
BLOCKS	NUMBER	Number of blocks in logfile
BLOCK_SIZE	NUMBER	Size of log block

4.2.5. V\$ARCHIVE_DEST_FILES

Displays archive log information for archive log files in LOG_ARCHIVE_DEST.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(256)	Archive log file path and name
THREAD#	NUMBER	Log group number recorded by instances of a server
SEQUENCE#	NUMBER	Sequence number of the log group
FIRST_CHANGE#	NUMBER	TSN associated with the first archive log that belongs to the log group
FIRST_TIME	DATE	Time when the first archive log that belongs to the log group was recorded
NEXT_CHANGE#	NUMBER	TSN associated with the next archive log that belongs to the log group
RESET LOGS_CHANGE#	NUMBER	Resetlogs TSN of the database when the log was written
RESETLOGS_TIME	DATE	Resetlogs time of the database when the log was written

4.2.6. V\$AS_ALIAS

All Aliases in all disk spaces mounted by the AS instance.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(48)	File Alias(File Name String)
DISKSPACE_NUMBER	NUMBER	Disk space number that the alias belongs to
FILE_NUMBER	NUMBER	File number for the alias
FILE_INCARNATION	NUMBER	File incarnation number for the alias
ALIAS_INCARNATION	NUMBER	Alias incarnation number

4.2.7. V\$AS_DISK

All disks discovered by the AS instance.

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Disk space number that the disk belongs to
DISK_NUMBER	NUMBER	Disk number in the disk space
STATE	VARCHAR(16)	Disk state in the disk space - ONLINE - PREPARE_ADD - PREPARE_DROP - ADDING - DROPPING - SYNC - FAIL
OS_MB	NUMBER	Disk size recognized by the OS

Column Name	Data Type	Description
TOTAL_MB	VARCHAR(10)	Disk size
FREE_MB	VARCHAR(10)	Unused disk space
NAME	VARCHAR(48)	Disk name
FAILGROUP	VARCHAR(48)	Name of the failure group that the disk belongs to
PATH	VARCHAR(256)	Absolute path of the disk
CREATE_DATE	DATE	Date when the disk was added to the disk space

4.2.8. V\$AS_DISKSPACE

All disk spaces discovered by the AS instance.

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Number assigned to the disk space
NAME	VARCHAR(48)	Name of the disk space
SECTOR_SIZE	NUMBER	Physical block size (in bytes)
BLOCK_SIZE	NUMBER	AS metadata block size (in bytes)
ALLOCATION_UNIT_SIZE	NUMBER	Size of the allocation unit (in bytes)
STATE	VARCHAR(16)	State of the disk space on the AS instance - ASSIGNED - MOUNTING - CREATING - MOUNT
TYPE	VARCHAR(8)	Redundancy level of the disk space - EXTERN - NORMAL

Column Name	Data Type	Description
		- HIGH
TOTAL_MB	NUMBER	Total capacity of the disk space
FREE_MB	NUMBER	Unused capacity of the disk space
REQUIRED_MIRROR_FREE_MB	NUMBER	Required free capacity of the disk space for disk failure
USABLE_FILE_MB	NUMBER	Usable capacity of the disk space

4.2.9. V\$AS_DISK_HISTORY

All disks discovered by the AS instance.

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Disk space number that the disk belongs to
DISK_NUMBER	NUMBER	Disk number in the disk space
OPERATION_TYPE	VARCHAR(32)	Operation type in the disk space - REPAIR_DROP - DROP_ROLLBACK - DROP - ADD_ROLLBACK - ADD
DATETIME	DATE	Date when the disk was add or drop to the disk space

4.2.10. V\$AS_EXTENT_MAP

Extent map of each file in each disk space

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Disk space number that the file belongs to
FILE_NUMBER	NUMBER	File number in the disk space
EXTENT_NUMBER	NUMBER	Extent number in the file
REDUN_NUMBER	NUMBER	Redundancy number of the extent - 0 primary - 1, 2 redun copy
EXTENT_SIZE	NUMBER	# of AUs in the extent
DISK_NUMBER	NUMBER	Disk number in the disk space
AU_NUMBER	NUMBER	AU number in the disk

4.2.11. V\$AS_FILE

All files in all disk spaces mounted by the AS instance.

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Disk space number that the file belongs to
FILE_NUMBER	NUMBER	File number in the disk space
INCARNATION	NUMBER	File incarnation number
BLOCK_SIZE	NUMBER	Block size of the file (in bytes)
BYTES	NUMBER	Number of bytes of the file
TYPE	VARCHAR(64)	File type - DATA - CTRL - CM
REDUNDANCY	VARCHAR(8)	Redundancy level of the file

Column Name	Data Type	Description
		- EXTERN - NORMAL - HIGH
STRIPED	VARCHAR(8)	Striping type - COARSE - FINE

4.2.12. V\$AS_OPERATION

Ongoing operations in each disk space

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Disk space number that the operation belongs to
OPERATION	VARCHAR(16)	Type of the operation
STATE	VARCHAR(8)	State of the operation
POWER	NUMBER	Power requested for the operation
JOB_DONE	NUMBER	# of extents that have been processed so far
JOB_REMAIN	NUMBER	# of remained extents that have to be processed
JOB_TOTAL	NUMBER	# of extents that have to be processed by the operation
EST_SPEED	NUMBER	extents processed divided by elapsed time
EST_REMAIN_TIME	VARCHAR(32)	job_total divided by ext_speed

4.2.13. V\$AS_USER

All users in all disk spaces mounted by the AS instance.

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Disk space number that the file belongs to
USER_NUMBER	NUMBER	User number in the disk space
INCARNATION	NUMBER	User incarnation number
USER_NAME	VARCHAR(128)	User name

4.2.14. V\$AS_USERGROUP

All usergroups in all disk spaces mounted by the AS instance.

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Disk space number that the file belongs to
USERGROUP_NUMBER	NUMBER	Usergroup number in the disk space
INCARNATION	NUMBER	Usergroup incarnation number
OWNER_NUMBER	NUMBER	Owner number of the usergroup
OWNER_INCARNATION	NUMBER	Owner incarnation number
USERGROUP_NAME	VARCHAR(128)	Usergroup name

4.2.15. V\$AS_USERGROUP_MEMBER

Each group members in all disk spaces mounted by the AS instance.

- Columns

Column Name	Data Type	Description
DISKSPACE_NUMBER	NUMBER	Disk space number that the file belongs to
MEMBER_NUMBER	NUMBER	Member number in the usergroup

Column Name	Data Type	Description
MEMBER_INCARNA TION	NUMBER	Member incarnation number
USERGROUP_NUM BER	NUMBER	Usergroup number
USERGROUP_INCAR NATION	NUMBER	Usergroup incarnation number

4.2.16. V\$AUTO_COALESCE

Displays statistics of an index auto coalesce operations

- Columns

Column Name	Data Type	Description
BUCKET#	NUMBER	Hash bucket number of the coalescing request list
SGMT_ID	NUMBER	Segment ID of the index to be automatically coalesced
COAL_REQ_CNT	NUMBER	Total number of the coalescing requests
COAL_CNT	NUMBER	Total number of the coalescing operations

4.2.17. V\$BACKUP

Displays the status of online backup.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	File number
STATUS	VARCHAR(10)	Status information - Active: online backup is being performed - Not Active : online backup is not being performed
CHANGE#	NUMBER	TSN for which backup is started if online backup is being performed

Column Name	Data Type	Description
TIME	DATE	Time when the backup was started if online backup is being performed

4.2.18. V\$BACKUP_ARCHIVED_LOG

Displays information of backup archive logs.

- Columns

Column Name	Data Type	Description
SET_ID	NUMBER	Id of backup archivelogs
THREAD#	NUMBER	Log group number recorded by instances of a server
MIN_LOG_TIME	DATE	Minimum begin time of backup archivelogs
MAX_LOG_TIME	DATE	Maximum end time of backup archivelogs
MIN_LOG_TSN	NUMBER	Minimum begin TSN of backup archivelogs
MAX_LOG_TSN	NUMBER	Maximum end TSN of backup archivelogs
MIN_LOG_SEQ	NUMBER	Minimum sequence of backup archivelogs
MAX_LOG_SEQ	NUMBER	Maximum sequence of backup archivelogs
RESETLOG_TIME	DATE	Resetlog time of backup archivelogs
RESETLOG_TSN	NUMBER	Resetlog TSN of backup archivelogs

4.2.19. V\$BACKUP_LIST

Displays information of backed up files in view.

- Columns

Column Name	Data Type	Description
SET_ID	NUMBER	Id of backup set
FILE_TYPE	VARCHAR	Type of backup file

Column Name	Data Type	Description
FILE_NAME	VARCHAR	Full-path of backup file
BACKUP_FILE_NAME	VARCHAR	Name of backup file

4.2.20. V\$BACKUP_LIST_ARCHIVELOG

Displays information of backed up archive logfiles.

- Columns

Column Name	Data Type	Description
SET_ID	NUMBER	Id of backup set
FILE_NAME	VARCHAR	Full-path of backup file
BACKUP_FILE_NAME	VARCHAR	Name of backup file

4.2.21. V\$BACKUP_LIST_CONTROLFILE

Displays information of backed up datafiles.

- Columns

Column Name	Data Type	Description
SET_ID	NUMBER	Id of backup set
FILE_NAME	VARCHAR	Full-path of backup file
BACKUP_FILE_NAME	VARCHAR	Name of backup file

4.2.22. V\$BACKUP_LIST_DATAFILE

Displays information of backed up datafiles.

- Columns

Column Name	Data Type	Description
SET_ID	NUMBER	Id of backup set

Column Name	Data Type	Description
FILE_NAME	VARCHAR	Full-path of backup file
BACKUP_FILE_NAME	VARCHAR	Name of backup file

4.2.23. V\$BACKUP_SET

Displays information of backup sets.

- Columns

Column Name	Data Type	Description
SET_ID	NUMBER	Id of backup set
STATUS	VARCHAR	Current status of backup: running, completed deleting, failed
START_TIME	DATE	Begin time of backup
FINISH_TIME	DATE	End time of backup
ELAPSED_TIME	NUMBER	Elapsed time(sec) of backup
START_TSN	NUMBER	Start TSN of backup
FINISH_TSN	NUMBER	Finish TSN of backup
RESETLOGS_TSN	NUMBER	Resetlogs TSN of backup
SIZE	NUMBER	Size of backup set
BASE_SET	NUMBER	Base set of backup
BACKUP_TYPE	VARCHAR	Type of backup; full, partial, incremental, cumulative, archive_only
BACKUP_OPTION	VARCHAR	Options used for the backup: net_backup, with_archivelog, compression
PARTIAL_BACKUP_OPTION	VARCHAR	Options used for the partial backup: skip_tablespace, skip_readonly, skip_offline
BACKUP_PATH	VARCHAR	Path of backup

4.2.24. V\$BACKUP_SET_TABLESPACE

Displays information of backup tablespace

- Columns

Column Name	Data Type	Description
SET_ID	NUMBER	Id of backup set
TSID	NUMBER	Tablespace ID

4.2.25. V\$BG_SESSION

Displays information on each background session.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
STATUS	VARCHAR(32)	Status of session - READY: The session is connected - RUNNING: The session is running - TX_RECOVERING: The transaction is being recovered - SESS_CLEANUP: The session resources are being cleaned up - ASSIGNED: Connected to database, but the session is closed
TYPE	VARCHAR(15)	Session type - WTHR: Working thread - CTHR: Control thread - LGWR: Log writing process - CKPT: Checkpoint process - LARC: Log archive - AGENT: Sequence process

Column Name	Data Type	Description
		- MTHR: Monitoring process - DBWR: Datablock writing process - LNW: Log network writing process
STATE	VARCHAR(25)	State of working thread - INVALID: Not intialized - NEW: Being created - IDLE: Ready to run - RUNNING: Running - WAITING: Waiting for internal message - RECV_WAITING: Waiting for client message - STOP_BY_MTHR: Stopped by MTHR - DEAD: Dead
WLOCK_WAIT	VARCHAR(18)	Type of wlock for which the session waits
WAIT_EVENT	NUMBER	Type of wait_event for which the session waits
WAIT_TIME	NUMBER	Waiting time of wait_event for which the session waits
PGA_USED_MEM	NUMBER	The amount of PGA memory occupied by the session
PID	NUMBER	Index of a process to which a session belongs
WTHR_ID	NUMBER	Index of a working thread process to which a session belongs
OSUSER	VARCHAR(128)	OS account name of the session connected

4.2.26. V\$BG_SESSTAT

Displays statistics of each background session.

- Columns

Column Name	Data Type	Description
TID	NUMBER	Session ID
STAT#	NUMBER	Number of event to obtain statistics
NAME	VARCHAR(60)	Name of event to obtain statistics
CLASS	NUMBER	Class of the event
VALUE	NUMBER	Value of the event (Corresponding to the event name)

4.2.27. V\$BH

Displays information for all buffers.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	Absolute number of the file
BLOCK#	NUMBER	Block number
BLKTYPE	NUMBER	Type of the block
STATUS	VARCHAR(7)	Status of the buffer - READING - CURRENT - CR
PIN_MODE	VARCHAR(3)	Pin mode
TEMP	VARCHAR(1)	Whether it is a buffer of the temporary file or not
DIRTY	VARCHAR(1)	Whether it is a modified buffer or not
TS#	NUMBER	ID of the tablespace to which the block corresponding to the buffer belongs
OBJD	NUMBER	ID of the segment to which the block corresponding to the buffer belongs

4.2.28. V\$BLOCKER_SESSION

Displays blocker sessions which are not blocked by other session.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID of the blocker session
TYPE	VARCHAR(25)	Type of the lock
ID1	NUMBER	First ID of the lock
ID2	NUMBER	Second ID of the lock
MODE_HELD	NUMBER	Mode in which the lock is held

4.2.29. V\$BPARAMETERS

Views the value of the parameter set in BTIP.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(64)	Name of the parameter.
VALUE	VARCHAR(1024)	Value of the parameter.

4.2.30. V\$BUFFER_CACHE_ADVICE

Display the estimate hit ratios

- Columns

Column Name	Data Type	Description
BUFFER_CACHE_SIZE	NUMBER	The buffer cache size (in Mbytes)
HIT_RATIO	NUMBER	The estimate hit ratio at given buffer cache size

4.2.31. V\$BUFFER_POOL

Displays information for buffer pools.

- Columns

Column Name	Data Type	Description
ID	NUMBER	Buffer pool ID
NAME	VARCHAR(7)	Name of the buffer pool
BLOCK_SIZE	NUMBER	Size of the block
BUFFERS	NUMBER	The number of the buffers
WSCNT	NUMBER	The number of the working sets of the buffers pool

4.2.32. V\$BUFFER_POOL_STATISTICS

Displays statistics of buffer pools.

- Columns

Column Name	Data Type	Description
WS#	NUMBER	Working set number of the buffer pool
TOTAL_CNT	NUMBER	The total number of blocks in the working set
MAIN_CNT	NUMBER	The number of main lists
MAIN2_CNT	NUMBER	The number of the second main lists
AUX_CNT	NUMBER	The number of the auxiliary lists
HOT_CNT	NUMBER	The number of the most frequently used buffers
CR_CNT	NUMBER	The number of the buffers read in the Consistent-Read mode
EXL_CNT	NUMBER	The number of buffers being modified
SHR_CNT	NUMBER	The number of buffers being scanned
DIRTY_CNT	NUMBER	The number of the modified buffers

Column Name	Data Type	Description
SUM_GOT	NUMBER	The total number of buffers gotten by the working set
SUM_WRITE	NUMBER	The total number of the buffers modified by the working set
SUM_READ	NUMBER	The total number of the buffers scanned by the working set
FREE_WAIT	NUMBER	The number of times it waited for a free buffer
WRITE_WAIT	NUMBER	The number of times it waited to write data to disk
BUSY_WAIT	NUMBER	The number of times it waited for the busy buffer
FREE_SCAN	NUMBER	The number of times a free buffer is scanned
MAIN2_SCAN	NUMBER	The number of times the second main list is scanned

4.2.33. V\$CHECKPOINT

Displays information for checkpoints.

- Columns

Column Name	Data Type	Description
ONGOING	NUMBER	Whether a checkpoint is activated or not - 0: Checkpoint is not activated - 1: Checkpoint is activated
REQ_TYPE	VARCHAR(100)	The reason the checkpoint is activated
WAITERS	NUMBER	The number of waiters waiting for checkpoint to complete
MIN_WAIT_TSN	NUMBER	The smallest TSN among the target TSNs waiting for checkpoint to complete
TARGET_TSN	NUMBER	The target TSN of the checkpoint that is ongoing or has recently completed (A checkpoint gets completed when the target TSN is bigger than LOW_CACHE_TSN)
LOW_CACHE_TSN	NUMBER	TSN for which the current checkpoint is valid

Column Name	Data Type	Description
MAX_TIME	NUMBER	The longest amount of time needed to complete check point
MAX_BLOCKS	NUMBER	The maximum number of blocks used by checkpoint
CHECKPOINT_TSN	NUMBER	TSN of the current checkpoint

4.2.34. V\$CLUSTER_INTERCONNECTS

Displays interconnects available for use in cluster communication.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(15)	Name of the interconnect
IP_ADDRESS	VARCHAR(16)	IP address of the interconnect
IS_PUBLIC	VARCHAR(4)	Type of interface:public or private. Currently, it supports only private so is always set to NO.
SOURCE	VARCHAR(31)	Indicates where this interface was picked up from. Currently, it is always set to 'the local_cluster_addr parameter'

4.2.35. V\$CONTEXT

Displays context attributes in the current session.

- Columns

Column Name	Data Type	Description
NAMESPACE	VARCHAR(128)	The namespace of the context attribute
ATTRIBUTE	VARCHAR(128)	The name of the attribute
VALUE	VARCHAR(65532)	The value of the attribute

4.2.36. V\$CONTROLFILE

Displays information for control files.

- Columns

Column Name	Data Type	Description
STATUS	NUMBER	Status information - 0: Normal - Negative: Error
NAME	VARCHAR(256)	Path name for the control file
BLKSIZE	NUMBER	The size of the control file block
BLOCKS	NUMBER	The number of blocks in the control file

4.2.37. V\$CORRUPT_XID

Displays transactions whose recovery is suspended.

- Columns

Column Name	Data Type	Description
XID	VARCHAR(65532)	ID of the suspended transaction

4.2.38. V\$DATABASE

Displays database status information.

- Columns

Column Name	Data Type	Description
DBID	NUMBER	Database identifier (Unique value specified when creating a database)
NAME	VARCHAR(40)	Name of the database (Name specified when creating a database)
DB_CREATE_DATE	DATE	Creation date of the database

Column Name	Data Type	Description
CF_CREATE_DATE	DATE	Creation date of the control file
CURRENT_TSN	NUMBER	The current TSN of the database
OPEN_MODE	VARCHAR(10)	Open mode of the database - MOUNTED - RECOVERY - READ ONLY - READ WRITE - NOMOUNT
RESETLOG_TSN	NUMBER	TSN associated with the last resetlogs
RESETLOG_DATE	DATE	The last resetlogs time
PREV_RESET LOG_TSN	NUMBER	TSN associated with the previous resetlogs
PREV_RESET LOG_DATE	DATE	The previous resetlogs time
LOG_MODE	VARCHAR(12)	Archive log mode - ARCHIVELOG - NOARCHIVELOG
CKPT_TSN	NUMBER	TSN associated with the last checkpoint
CKPT_DATE	DATE	The last checkpoint time
CPU_NAME	VARCHAR(32)	The CPU type name
PLATFORM_NAME	VARCHAR(32)	The OS platform name
CPU_MODEL	VARCHAR(256)	The CPU model name
OS_UPTIME	VARCHAR(256)	The OS uptime info

4.2.39. V\$DATAFILE

Displays information for data files in the database.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	Datafile number
CREATE_TSN	NUMBER	TSN that created the datafile
CREATE_DATE	DATE	Datafile created time
TS#	NUMBER	Tablespace number to which the datafile belongs
RFILE#	NUMBER	Relative datafile number in the tablespace
STATUS	VARCHAR(7)	Status information of the datafile - OFFLINE: Datafile needs to be deleted - ONLINE: Datafile is in the normal state - RECOVER: Datafile needs to be recovered
ENABLED	CHAR(10)	File accessibility - DISABLED: Unable to read/write - READ ONLY: Readable only - READ WRITE: Readable and writable
CKPT_TSN	NUMBER	TSN associated with the last checkpoint
CKPT_DATE	DATE	The last checkpoint time
CREATE_BYTES	NUMBER	Size of the datafile at the time when it is created
NAME	VARCHAR(256)	Path name of the datafile

4.2.40. V\$DATAFILE_HEADER

Displays information of ONLINE datafiles by extracting it from file headers.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	Datafile number

Column Name	Data Type	Description
DBID	NUMBER	ID of the database to which the datafile belongs
DBNAME	VARCHAR(40)	Name of the database to which the datafile belongs
BLKSIZE	NUMBER	Size of the block
RECOVER	VARCHAR(3)	Media recovery necessity
FUZZY	VARCHAR(3)	Whether or not the datafile has been normally closed
CREATE_TSN	NUMBER	TSN that created the datafile
CREATE_DATE	DATE	Datafile created time
TABLESPACE_NAME	VARCHAR(128)	Name of the tablespace to which the datafile belongs
TS#	NUMBER	Tablespace number to which the datafile belongs
RFILE#	NUMBER	Tablespace relative datafile number
RESETLOGS_TSN	NUMBER	TSN associated with the last reset logs
RESETLOGS_DATE	DATE	The last resetlogs time
CKPT_TSN	NUMBER	TSN associated with the last checkpoint
CKPT_DATE	DATE	The last checkpoint time
CKPT_COUNT	NUMBER	Checkpoint count
FILESIZE	NUMBER	Size of the datafile
NAME	VARCHAR(256)	Path name of the datafile

4.2.41. V\$DBFILE

Displays datafile names in the database.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	Datafile number
NAME	VARCHAR(256)	Path name of the datafile

4.2.42. V\$DBLINK

Displays information for the open database links in the current session.

- Columns

Column Name	Data Type	Description
DB_LINK	VARCHAR(128)	Name of the database link
OWNER_ID	NUMBER	ID of the owner of the database link
OPEN_CURSORS	NUMBER	The number of cursors opened by the current database link
IN_TRANSACTION	VARCHAR(3)	Whether it is a database link that is accessed from the currently running transaction or other transactions
HETEROGENEOUS	VARCHAR(3)	Whether or not the remote database is RDBMS
COMMIT_POINT_STRENGTH	NUMBER	Commit point strength of the remote database

4.2.43. V\$DBLINK_STATUS

Displays gateway and remote session information for the open database links in each session.

- Columns

Column Name	Data Type	Description
SESS_ID	NUMBER	Session ID
SERIAL#	NUMBER	A serial number of a session (Like SID, used to recognize sessions)
DB_LINK	VARCHAR(128)	Name of the database link
OWNER_ID	NUMBER	ID of the owner of the database link
GATEWAY_PID	NUMBER	PID of the gateway (in heterogeneous link)
GATEWAY_NAME	VARCHAR(128)	Process name of the gateway (in heterogeneous link)
GATEWAY_TID	NUMBER	TID (thread id) of the gateway (in heterogeneous link)
REMOTE_SESS_INFO	VARCHAR(32)	Remote session info

4.2.44. V\$DB_PIPES

Displays DBMS_PIPE information.

- Columns

Column Name	Data Type	Description
OWNERID	NUMBER	Owner id of a pipe.
NAME	VARCHAR(1000)	Pipe name.
TYPE	VARCHAR(7)	Pipe type(private or public).
PIPE_SIZE	NUMBER	Maximum size of pipe.

4.2.45. V\$ENCRYPTED_TABLESPACES

Displays information on encrypted tablespaces.

- Columns

Column Name	Data Type	Description
TS#	NUMBER	A serial number of tablespace
ENCRYPTIONALG	VARCHAR(7)	An encryption algorithm
ENCRYPTEDTS	VARCHAR(3)	Whether or not the tablespace was encrypted (YES or NO)

4.2.46. V\$ENCRYPTION_WALLET

Displays information of the status of the wallet.

- Columns

Column Name	Data Type	Description
WRL_TYPE	VARCHAR(20)	Type of the wallet resource locator
WRL_PARAMETER	VARCHAR(4000)	Parameter of the wallet resource locator (absolute file name)
STATUS	VARCHAR(10)	Status of the wallet

4.2.47. V\$ENQUEUE_STAT

Displays statistics of locks.

- Columns

Column Name	Data Type	Description
IDX	NUMBER	Lock number
TYPE	VARCHAR(25)	Lock type
TOTAL_REQ#	NUMBER	Lock requested count
TOTAL_WAIT#	NUMBER	Lock wait count
SUCC_REQ#	NUMBER	Lock success count
FAILED_REQ#	NUMBER	Lock failure count
CUM_WAIT_TIME	NUMBER	Total Lock wait time (msec)

4.2.48. V\$EST_CHECKPOINT_TIME

Displays information for estimated checkpoint time.

- Columns

Column Name	Data Type	Description
DIRTY_BLOCKS	NUMBER	The number of dirty blocks in buffer cache
DISK_WRITE_TIME	NUMBER	The disk write time per block(ms)
ESTIMATED_CHECKPOINT_TIME	NUMBER	the estimated checkpoint time(s)

4.2.49. V\$EVENT_NAME

Displays event names.

- Columns

Column Name	Data Type	Description
EVENT#	NUMBER	Event number
NAME	VARCHAR(40)	Event name
CLASS	VARCHAR(40)	Class of the event
DESC	VARCHAR(60)	Description of the waitevent
ID1_DESC	VARCHAR(60)	Description of the first event parameter
ID2_DESC	VARCHAR(60)	Description of the second event parameter

4.2.50. V\$FILESTAT

Displays file read/write statistics.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	File number
PHYRDS	NUMBER	The number of read operations performed
PHYWRTS	NUMBER	The number of write operations performed
PHYBLKRD	NUMBER	The number of blocks read
PHYBLKWRT	NUMBER	The number of blocks written
SINGLEBLKRDS	NUMBER	Single-block read count
READTIM	NUMBER	Time spent on read operations (msec)
WRITETIM	NUMBER	Time spent on write operations (msec)
SINGLEBLKRDTIM	NUMBER	Time spent to read a single-block (msec)
AVGIOTIM	NUMBER	Average input/output time (msec)
LSTIOTIM	NUMBER	Time spent on the last input/output operation (msec)
MINIOTIM	NUMBER	The minimum time spent on an input/output operation (msec)

Column Name	Data Type	Description
MAXIORTM	NUMBER	The maximum time spent on a read operation (msec)
MAXIOWTM	NUMBER	The maximum time spent on a write operation (msec)

4.2.51. V\$FLASHBACK_ARCHIVED_LOG

Displays flashback archive log information.

- Columns

Column Name	Data Type	Description
RECID	NUMBER	Archive log record ID
THREAD#	NUMBER	Log group number recorded by instances of a server
NAME	VARCHAR(256)	Archive log file path and name
SEQUENCE#	NUMBER	Sequence number of the log group
FIRST_CHANGE#	NUMBER	TSN associated with the first archive log that belongs to the log group
FIRST_TIME	DATE	Time when the first archive log that belongs to the log group was recorded
NEXT_CHANGE#	NUMBER	TSN associated with the next archive log that belongs to the log group
RESET LOGS_CHANGE#	NUMBER	Resetlogs TSN of the database when the log was written
RESETLOGS_TIME	DATE	Resetlogs time of the database when the log was written
FILESIZE	NUMBER	Size of logfile in bytes
BLOCKS	NUMBER	Number of blocks in logfile
BLOCK_SIZE	NUMBER	Size of log block

4.2.52. V\$FLASHBACK_LOG

Displays information of flashback log groups.

- Columns

Column Name	Data Type	Description
THREAD#	NUMBER	Log group number recorded by instances of a server
GROUP#	NUMBER	Log group number
SEQUENCE#	NUMBER	Sequence number of the log group
BYTES	NUMBER	Size of the log group
MEMBERS	NUMBER	The number of log member files that belong to the log group
ARCHIVED	VARCHAR(3)	Whether it was archived or not
STATUS	VARCHAR(8)	Status information of the log group - ACTIVE: File archive needs to be done - UNUSED: The log file has not been used - CURRENT: The log file is currently in use - INACTIVE: File archive has been completed
FIRST_CHANGE#	NUMBER	TSN associated with the first log that belongs to the log group
FIRST_TIME	DATE	Time when the first log that belongs to the log group was recorded

4.2.53. V\$FLASHBACK_MARKER

Displays flashback markers for flashback database.

- Columns

Column Name	Data Type	Description
RECID	NUMBER	Flashback marker record ID
THREAD#	NUMBER	Instance number which recorded the flashback marker

Column Name	Data Type	Description
SEQUENCE	NUMBER	Sequence number of the flashback log when marked
BLOCK_NUMBER	NUMBER	Last block number of the flashback log when marked
CHANGE#	NUMBER	TSN when marked
TIME	DATE	Time when marked

4.2.54. V\$GLOBAL_TRANSACTION

Displays information of the currently running global transactions.

- Columns

Column Name	Data Type	Description
GLOBAL_ID	VARCHAR(256)	ID of the global transaction
SESS_ID	NUMBER	ID of the current session
LOCAL_ID	VARCHAR(65532)	ID of the local transaction

4.2.55. V\$INSTANCE

Displays instance statuses.

- Columns

Column Name	Data Type	Description
INSTANCE_NUMBER	NUMBER	Instance number (Used by CM)
INSTANCE_NAME	VARCHAR(40)	Name of the instance
DB_NAME	VARCHAR(40)	Name of the database
HOST_NAME	VARCHAR(63)	Name of the host
PARALLEL	VARCHAR(3)	Whether clustering is activated or not
THREAD#	NUMBER	Log group number recorded by instances of a server
VERSION	VARCHAR(8)	Version of RDBMS

Column Name	Data Type	Description
STARTUP_TIME	DATE	Instance startup time
STATUS	VARCHAR(16)	Current status of the server - NOMOUNT - MOUNT - NORMAL - RAISING_SVRMODE
SHUTDOWN_PENDING	VARCHAR(4)	Whether server shutdown was requested or not
TIP_FILE	VARCHAR(256)	Pathname of the TIP file

4.2.56. V\$INSTANCEMETRIC

Shows the load status of the current node in TAC.

- Columns

Column Name	Data Type	Description
BEGIN_TIME	DATE	Begin time for load calculations
END_TIME	DATE	End time for load calculations
INTSIZE_CSEC	NUMBER	Interval length for load calculations (Unit: 0.01 seconds)
ELAPSEDPERCALL	NUMBER	Average processing time per user request within the interval
CPUPERCALL	NUMBER	Average CPU processing time per user request within the interval (currently not supported)
DBTIMEPERCALL	NUMBER	Average DB processing time per user request within the interval (currently not supported)
CALLSPERSEC	NUMBER	Number of user requests per second within the interval
DBTIMEPERSEC	NUMBER	The time consumed in DB per second within the interval (currently not supported)

Column Name	Data Type	Description
GOODNESS	NUMBER	Load level of the interval (number of sessions or average processing time used)
DELTA	NUMBER	Load fluctuation predicated for additional sessions

4.2.57. V\$INSTANCEMETRIC_HISTORY

Shows the load status of the current node in TAC.

- Columns

Column Name	Data Type	Description
BEGIN_TIME	DATE	Begin time for load calculations
END_TIME	DATE	End time for load calculations
INTSIZE_CSEC	NUMBER	Interval size for load calculations (Unit: 0.01 Seconds)
ELAPSEDPERCALL	NUMBER	Average processing time per user request within the interval
CPUPERCALL	NUMBER	Average CPU processing time per user request within the interval (currently not supported)
DBTIMEPERCALL	NUMBER	Average DB processing time per user request within the interval (currently not supported)
CALLSPERSEC	NUMBER	Number of user requests per second within the interval
DBTIMEPERSEC	NUMBER	The time consumed in DB per second within the interval (currently not supported)
GOODNESS	NUMBER	Load level of the interval (number of sessions or average processing time used)
DELTA	NUMBER	Load fluctuation predicated for additional sessions

4.2.58. V\$INTERCONNECTION

Displays informations of interconnections in cluster

- Columns

Column Name	Data Type	Description
CONNECTION_ID	NUMBER	Id of interconnection
CONNECTED_NID	NUMBER	Remote instance id
MSG_TO_SEND	NUMBER	Number of messages to send

4.2.59. V\$INTERCONNECT_LATENCY

Displays interconnect latency in cluster

- Columns

Column Name	Data Type	Description
REMOTE_INST_ID	NUMBER	Remote instance id
MIN_TIME	NUMBER	min time latency(us)
MAX_TIME	NUMBER	max time latency(us)
AVG_TIME	NUMBER	average time latency(us)
CUR_TIME	NUMBER	current time latency(us)

4.2.60. V\$IPARAM_DESC

Displays initialization parameters.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(60)	Name of the initialization parameter
DESCRIPTION	VARCHAR(65532)	Description of the initialization parameter

4.2.61. V\$LATCH

Displays spinlock information.

- Columns

Column Name	Data Type	Description
LATCH#	NUMBER	Spinlock number
LEVEL#	NUMBER	Level of the spinlock
NAME	VARCHAR(30)	Name of the spinlock
GETS	NUMBER	The number of times a spinlock was acquired
MISSES	NUMBER	The number of times the requester had to wait for a spinlock
SPIN_GETS	NUMBER	The number of times the requester failed to acquire a spinlock but succeeded in gaining a spin
SLEEPS	NUMBER	The number of times the requester was put to sleep while waiting for a spinlock
IMMEDIATE_GETS	NUMBER	The number of times a trylock was acquired
IMMEDIATE_MISSES	NUMBER	The number of times the requester failed to acquire a trylock
WAIT_TIME	NUMBER	The total sleep time of spinlock
MAX_WAIT_TIME	NUMBER	The maximum wait time of spinlock
SLEEPS_CNT	NUMBER	The number of actual sleep count while waiting for a spinlock

4.2.62. V\$LIBRARYCACHE

Displays information of PP cache and DD cache.

- Columns

Column Name	Data Type	Description
NAMESPACE	VARCHAR(16)	Name of the table

Column Name	Data Type	Description
		- PP cache: set to "SQL AREA" - DD cache: set to the name of each DD table
GETS	NUMBER	Cache total access count
GETHITS	NUMBER	Cache hit count
GETHITRATIO	NUMBER	Cache hit ratio (%)
PINS	NUMBER	Number of times a PIN was requested for objects
PINHITS	NUMBER	Number of times objects was pinned
PINHITRATIO	NUMBER	Ratio of PINHITS to PINS

4.2.63. V\$LICENSE

Displays license information.

- Columns

Column Name	Data Type	Description
LICENSE_VERSION	VARCHAR(50)	Version of the license
LICENSEE	VARCHAR(100)	User of the license
LICENSE_TYPE	VARCHAR(30)	Type of the license - DEMO - REAL
PRODUCT_NAME	VARCHAR(100)	Name of the product
PRODUCT_VERSION	VARCHAR(50)	Version of the product
EDITION	VARCHAR(30)	Type of product - BASE - STANDARD - ENTERPRISE

Column Name	Data Type	Description
ISSUE_DATE	VARCHAR(10)	Issue date of the license
EXPIRE_DATE	VARCHAR(10)	Expiration date of the license (Only for the DEMO type of license)
LIMIT_USER	VARCHAR(10)	Limit for the number of users
LIMIT_CPU	VARCHAR(10)	Limit for the number of CPUs
HOST	VARCHAR(100)	Host (IP or host name)

4.2.64. V\$LOCK

Displays locks that are currently in use.

- Columns

Column Name	Data Type	Description
TYPE	VARCHAR(25)	Type of the Lock
ID1	NUMBER	The first ID of the Lock
ID2	NUMBER	The second ID of the Lock
LMODE	NUMBER	Mode that the Lock owner owns. - 0: None - 1: Row-Shared(RS) - 2: Row-Exclusive(RX) - 3: Shared(S) - 4: Shared-Row-Exclusive(SRX) - 5: Exclusive(X) - 6: Pin (Special mode for TX-wait)
REQUESTED	NUMBER	Mode that the Lock waiter requests
SESS_ID	NUMBER	ID of the thread that owns the Lock(the same as SID)

Column Name	Data Type	Description
CTIME	NUMBER	The amount of elapsed time (in seconds) in current mode

4.2.65. V\$LOCKED_OBJECT

Displays session, transaction, object, lock info that are currently locked.

- Columns

Column Name	Data Type	Description
XIDUSN	NUMBER	Undo segment number
XIDSLOT	NUMBER	Slot number of transaction entry
XIDSQN	NUMBER	The number of times of reusing a transaction slot
OBJECT_ID	NUMBER	Object ID being locked
SESSION_ID	NUMBER	Session ID
USERNAME	VARCHAR(128)	The current user's name
OS_USER_NAME	VARCHAR(128)	OS account name of the session connected
PROCESS	NUMBER	Client process id of the session connected
LOCKED_MODE	NUMBER	Mode that the Lock owner owns. - 0: None - 1: Row-Shared(RS) - 2: Row-Exclusive(RX) - 3: Shared(S) - 4: Shared-Row-Exclusive(SRX) - 5: Exclusive(X) - 6: Pin (Special mode for TX-wait)

4.2.66. V\$LOG

Displays information of log groups.

- Columns

Column Name	Data Type	Description
THREAD#	NUMBER	Log group number recorded by instances of a server
GROUP#	NUMBER	Log group number
SEQUENCE#	NUMBER	Sequence number of the log group
BYTES	NUMBER	Size of the log group
MEMBERS	NUMBER	The number of log member files that belong to the log group
ARCHIVED	VARCHAR(3)	Whether it was archived or not
STATUS	VARCHAR(8)	Status information of the log group - ACTIVE: File archive needs to be done - UNUSED: The log file has not been used - CURRENT: The log file is currently in use - INACTIVE: File archive has been completed
FIRST_CHANGE#	NUMBER	TSN associated with the first log that belongs to the log group
FIRST_TIME	DATE	Time when the first log that belongs to the log group was recorded

4.2.67. V\$LOGFILE

Displays information of log member files.

- Columns

Column Name	Data Type	Description
GROUP#	NUMBER	Log group number to which the log member file belongs.

Column Name	Data Type	Description
STATUS	VARCHAR(7)	Status information of the log member file (Whether or not the log member file was deleted. Currently, it is always set to null.)
TYPE	CHAR(6)	Always ONLINE
MEMBER	VARCHAR(256)	Path name of the log member file

4.2.68. V\$LOG_HISTORY

Displays log history information.

- Columns

Column Name	Data Type	Description
THREAD#	NUMBER	Log group number recorded by instances of a server
SEQUENCE#	NUMBER	Sequence number of the log group
FIRST_CHANGE#	NUMBER	TSN associated with the first log that belongs to the log group
FIRST_TIME	DATE	Time when the first log that belongs to the log group was recorded
NEXT_CHANGE#	NUMBER	TSN associated with the next log that belongs to the log group
NEXT_TIME	DATE	Time when the next log that belongs to the log group was recorded
RESET LOGS_CHANGE#	NUMBER	Resetlogs TSN of the database when the log was written
RESETLOGS_TIME	DATE	Resetlogs time of the database when the log was written
FILESIZE	NUMBER	Size of the logfile at the time of log switch

4.2.69. V\$MEDIA_RECOVERY_PROGRESS

Displays the progress of media recovery.

- Columns

Column Name	Data Type	Description
THREAD#	NUMBER	Log group number recorded by instances of a server
START_TIME	VARCHAR(19)	The time when media recovery began
CURRENT_TIME	VARCHAR(19)	Current time
ESTIMATE_TIME	VARCHAR(19)	Estimated finish time of the media recovery
BEGIN_SEQUENCE#	NUMBER	Sequence number of the log group where media recovery started
RECOVERY_SEQUENCE#	NUMBER	Sequence number of the log group that is currently being replayed
END_SEQUENCE#	NUMBER	Sequence number of the log group where media recovery would end for complete recovery

4.2.70. V\$MEMORY_TABLESPACE

Displays information for memory tablespace data files in the database.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	Datafile number
CREATE_TSN	NUMBER	TSN that created the datafile
CREATE_DATE	DATE	Datafile created time
TS#	NUMBER	Tablespace number to which the datafile belongs
RFILE#	NUMBER	Relative datafile number in the tablespace
STATUS	VARCHAR(7)	Status information of the datafile - OFFLINE: Datafile needs to be deleted - ONLINE: Datafile is in the normal state - RECOVER: Datafile needs to be recovered

Column Name	Data Type	Description
ENABLED	CHAR(10)	File accessibility - DISABLED: Unable to read/write - READ ONLY: Readable only - READ WRITE: Readable and writable
CKPT_TSN	NUMBER	TSN associated with the last checkpoint
CKPT_DATE	DATE	The last checkpoint time
CREATE_BYTES	NUMBER	Size of the datafile at the time when it is created
NAME	VARCHAR(256)	Path name of the datafile

4.2.71. V\$METRIC

Displays information on the metric history.

- Columns

Column Name	Data Type	Description
SAMPLE_ID	NUMBER	Sample ID
THREAD#	NUMBER	Thread#
BEGIN_TIME	DATE	Begin Time of the Sample
END_TIME	DATE	End Time of the Sample
METRIC_ID	NUMBER	Metric ID
METRIC_NAME	VARCHAR(64)	Metric Name
METRIC_UNIT	VARCHAR(64)	Descriptions of the Metric Unit
VALUE	NUMBER	Value of the Metric
GROUP_ID	NUMBER	Group ID
GROUP_NAME	VARCHAR(64)	Group Name
INTERVAL	NUMBER	Interval of the Collection(Sec)

4.2.72. V\$METRICNAME

Displays specifications of the metrics.

- Columns

Column Name	Data Type	Description
METRIC_ID	NUMBER	Metric ID
METRIC_NAME	VARCHAR(64)	Metric Name
METRIC_UNIT	VARCHAR(64)	Descriptions of the Metric Unit
GROUP_ID	NUMBER	Group ID
GROUP_NAME	VARCHAR(64)	Group Name
INTERVAL	NUMBER	Interval of Metric Collection(Sec)

4.2.73. V\$MYSTAT

Displays statistics of the current session.

- Columns

Column Name	Data Type	Description
SID	NUMBER	ID of the session
STAT#	NUMBER	Event number used to obtain statistics
NAME	VARCHAR(60)	Name of the event used to obtain statistics
CLASS	NUMBER	Class of the event
VALUE	NUMBER	The number of times that the event was used

4.2.74. V\$OBJECT_USAGE

Displays statistics about index usage gathered from the database for the indexes owned by the current user.

- Columns

Column Name	Data Type	Description
OWNER_NAME	VARCHAR(128)	Name of user who has the object
INDEX_NAME	VARCHAR(128)	The name of the index that is monitored
TABLE_NAME	VARCHAR(128)	The name of the base table
MONITORING	VARCHAR(1)	Y or N
USED	VARCHAR(1)	Y or N
START_MONITORING	DATE	Start monitoring time in sys._object_usage.start_monitoring
END_MONITORING	DATE	End monitoring time in sys._object_usage.end_monitoring

4.2.75. V\$OPEN_CURSOR

Displays information for all open cursors for each session

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
CURSOR_ID	NUMBER	cursor ID
USER_NAME	VARCHAR(128)	Name of the current user
HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier
SQL_TEXT	VARCHAR(64)	SQL text of the open cursor
EXEC_TIME	NUMBER	Total working time performed on the cursor

4.2.76. V\$OSSTAT

Displays various OS statistics.

- Columns

Column Name	Data Type	Description
PID	NUMBER	Pid of process
NAME	VARCHAR(64)	Name of process
CPUTIME	NUMBER	CPU user time
CPUUSAGE	NUMBER	CPU usage in percentage

4.2.77. V\$OSSTAT2

Displays various OS statistics.

- Columns

Column Name	Data Type	Description
ID	NUMBER	Id of OS statistic
STAT_NAME	VARCHAR(64)	Name of OS statistic
COMMENTS	VARCHAR(512)	OS statistic comments
VALUE	NUMBER	OS statistic value
CUMULATIVE	VARCHAR(3)	Whether the statistic is cumulative('YES' or 'NO')

4.2.78. V\$OUTLINE

Displays outline hints in PPC

- Columns

Column Name	Data Type	Description
SQL_ID	VARCHAR(13)	SQL identifier of the parent statement in the library cache
CHILD_NUMBER	NUMBER	The number of this child physical plan

Column Name	Data Type	Description
NO	NUMBER	The number of relative hint order
HINT	VARCHAR(100)	Outline hint in string

4.2.79. V\$PARAMETERS

Displays values of initialization parameters.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(64)	Name of an initialization parameter
VALUE	VARCHAR(1024)	Value of an initialization parameter
DFLT_VALUE	VARCHAR(1024)	Default Value of an initialization parameter

4.2.80. V\$PATCH

Displays list of patch files.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(32)	Name of patch file

4.2.81. V\$PE_PESPLAN

Displays elapsed time information of PES in the format of SQL execution plan.

- Columns

Column Name	Data Type	Description
Execution_Plan	VARCHAR(65532)	Execution plan and embedded PES statistics

4.2.82. V\$PE_PESSTAT

Displays statistics of each PES for parallel processing.

- Columns

Column Name	Data Type	Description
SQL_ID	VARCHAR(13)	SQL identifier
PEM_ID	NUMBER	PEM node ID
PROD_PPN_ID	NUMBER	PPN ID associated with the producer PES
PROD_PES_ID	NUMBER	Producer PES ID
CONS_PPN_ID	NUMBER	PPN ID associated with the consumer PES
CONS_PES_ID	NUMBER	Consumer PES ID
ELAPSED_TIME	NUMBER	Total elapsed time
SAMPLE_TIME	NUMBER	Time taken for sampling with the range mode

4.2.83. V\$PE_PROCESS

Displays information of each parallel execution process currently allocated by QC session.

- Columns

Column Name	Data Type	Description
PEP_ID	NUMBER	PE process ID
OS_PID	NUMBER	PE process ID generated by OS
STATUS	VARCHAR(16)	The status of PE process
CTHR_TID	NUMBER	The control thread ID of PE process
QCSID	NUMBER	ID of a session working as a parallel coordinator
QCSerial#	NUMBER	A serial number of a session working as a parallel coordinator (Like QCSID, used to recognize the session)
SQL_CNT	NUMBER	The count of processed SQLs plus the current sql after this process has been assigned

Column Name	Data Type	Description
PENDING_MSG	VARCHAR(5)	A flag which indicates whether this process has a pending message from QC

4.2.84. V\$PE_SESSION

Displays sessions in parallel processing.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
SERIAL#	NUMBER	A serial number of a session (Like SID, used to recognize the session)
PEP_ID	NUMBER	ID of parallel execution process which this session belongs to
QCSID	NUMBER	ID of a session working as a parallel coordinator
QCSERIAL#	NUMBER	A serial number of a session working as a parallel coordinator (Like QCSID, used to recognize the session)
DEGREE	NUMBER	Parallel processing degree specified by server
REQ_DEGREE	NUMBER	Parallel processing degree requested by user

4.2.85. V\$PE_SYSSTAT

Displays statistics of parallel execution.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(64)	Name of a PE statistic - PEP allocation failure count (current) : The number of failure to allocate PEP for current parallel coordinators. This value is incremented at most once for each session.

Column Name	Data Type	Description
		- PEP allocation failure count (accumulated) : The number of failure to allocate PEP for all parallel coordinators including nonexistent ones. This value is incremented at most once for each session.
VALUE	NUMBER	Value of the PE statistic

4.2.86. V\$PE_TQSTAT

Displays statistics of table queues for parallel processing.

- Columns

Column Name	Data Type	Description
PEM_ID	NUMBER	PEM node ID
TQ_ID	NUMBER	Table queue ID
SERVER_TYPE	VARCHAR(10)	The role of server thread - PRODUCER: Transfers a result row to another thread - CONSUMER: Receives a result row from another thread - RANGER: Determines the range in which a result row is transferred
NUM_ROWS	NUMBER	The number of processed rows
BYTES	NUMBER	The byte number of processed data
WAITS	NUMBER	The number of times of waiting
THREAD	VARCHAR(30)	Thread name

4.2.87. V\$PGASTAT

Displays statistics of PGA.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(64)	Name of a PGA statistic - Ex memory soft limit: The maximum amount of PGA memory that can be allocated for the entire working thread running for queries. The memory tuner within the RDBMS monitors the PGA memory usage of the entire thread and adjusts the value accordingly to ensure the value does not exceed the maximum limit. - Ex memory operation limit: The maximum amount of memory that can be allocated for a single working thread to use memory (Sort, Hash-Join, and so on) during query executions. The memory tuner within the RDBMS adjusts this value properly when distributing the available memory among a number of working threads simultaneously request memory. The sort and hash-join operation references this value to check whether the operation is possible with its allocated memory. And if not possible, it uses a temporary table space and executes the file I/O operation instead. - Total ex memory allocated: The total amount of PGA memory currently occupied by the entire working thread of RDBMS. - Total ex memory allocated (max): The highest total PGA memory usage it has ever reached after RDBMS boots. In turn, the system keeps the highest value of the 'Total ex memory allocated' item. - FIXED pga memory: The fixed amount of memory that the malloc function directly allocates from the system when booted. - ALLOCATED pga memory: The amount of memory allocated using the malloc function and managed by the allocator with the RDBMS. This may increase during the operation. - USED pga memory (from ALLOCATED): The amount of 'ALLOCATED pga memory' currently occupied by server processes. This value must be either less than or equal to the value set in 'ALLOCATED pga memory'. And this value is equal to the sum of each

Column Name	Data Type	Description
		'pga_used_mem' item of the processes listed via v\$process. - Total workarea memory used: The total amount of memory allocated by the server for query processing. - Total workarea temporary segment used: The size of the temporary segments used for query processing.
VALUE	NUMBER	Value of the PGA statistic

4.2.88. V\$PROCESS

Displays processes and threads used in RDBMS.

- Columns

Column Name	Data Type	Description
PID	NUMBER	Process ID assigned by DBMS
TID	NUMBER	Thread ID assigned by DBMS
SPID	NUMBER	Process ID assigned by operating system
NAME	VARCHAR(8)	Thread name
LATCHWAIT	VARCHAR(18)	Spinlock waiting time of thread (msec)

4.2.89. V\$PROXY_SQLTEXT

Displays texts of SQL statements that are remotely executed through the database link.

- Columns

Column Name	Data Type	Description
HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier

Column Name	Data Type	Description
ID	NUMBER	Number given to each job of a physical plan
LINK_NAME	VARCHAR(128)	Database link name
PIECE	NUMBER	Number given to each text of a split SQL statement
SQL_TEXT	VARCHAR(64)	Text of an SQL statement split into 64-byte texts

4.2.90. V\$PROXY_SQL_PARAM

Displays bind parameters of SQL statements that are remotely executed through the database link.

- Columns

Column Name	Data Type	Description
HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier
ID	NUMBER	Number given to each job of a physical plan
BIND_NO	NUMBER	The order of binding in a proxy node
CLIENT_BIND_NO	NUMBER	The order of binding to all plans

4.2.91. V\$RECOVERY_FILE_STATUS

Displays the status of a file that is being recovered.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	A serial number of the file
NAME	VARCHAR(256)	The pathname of the file
STATUS	CHAR(11)	The status of the file ("IN RECOVERY" signifies a fixed status)

4.2.92. V\$RECOVERY_PROGRESS

Displays recovery progress.

- Columns

Column Name	Data Type	Description
START_TIME	TIMESTAMP(6)	Start time of the recovery
END_TIME	TIMESTAMP(6)	End time of the recovery
TYPE	CHAR(20)	Recovery type
ITEM	VARCHAR(32)	Name of the recovery information - UNDO BLOCK COUNT - RECOVERY TIME REMAIN
UNITS	VARCHAR(32)	Unit of the value specified in ITEM column
AMOUNT	NUMBER	The amount currently recovered
TOTAL	NUMBER	Total amount to be recovered

4.2.93. V\$RECOVERY_STATUS

Displays the status of media recovery progress.

- Columns

Column Name	Data Type	Description
RECOVERY_FILES	NUMBER	Number of datafiles in media recovery
NEXT_START_TSN	NUMBER	TSN of the next redo log
MIN_CANCEL_TSN	NUMBER	The minimum number of TSNs to be the end point of incomplete media recovery
RECO_TSN	NUMBER	TSN of the current redo log
REDO_THREADS	NUMBER	Number of redo threads needed in media recovery
INCOMPLETE	VARCHAR(1)	Whether or not the current media recovery mode is in complete

Column Name	Data Type	Description
		- True: Incomplete media recovery - False: Complete media recovery
CANCEL_TSN	NUMBER	TSN specified to be the end-point of incomplete media recovery
CANCEL_DATE	DATE	End-point time of the incomplete media recovery

4.2.94. V\$RECOVER_FILE

Displays files which require media recovery.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	A serial number of a file
ONLINE	VARCHAR(7)	Online status of a file
ERROR	VARCHAR(200)	Error details of a file to be recovered
CHANGE#	NUMBER	TSN for which to start recovery
TIME	DATE	Time that the recovery should be started

4.2.95. V\$RESERVED_WORDS

Displays a list of all SQL keywords.

- Columns

Column Name	Data Type	Description
KEYWORD	VARCHAR(30)	Name of the keyword
LENGTH	NUMBER	Length of the keyword
RESERVED	VARCHAR(1)	Whether or not the keyword cannot be used as an identifier

4.2.96. V\$RESULT_CACHE_DEPENDENCY

Displays the depends-on relationship between cached result and dependencies.

- Columns

Column Name	Data Type	Description
RESULT_ID	NUMBER	ID of the cached result
DEPEND_ID	NUMBER	ID of the dependency object
OBJECT_NO	NUMBER	Dictionary object number of the dependency object

4.2.97. V\$RESULT_CACHE_OBJECTS

Displays Result Cache Objects and their attributes.

- Columns

Column Name	Data Type	Description
ID	NUMBER	ID of the cached object
TYPE	VARCHAR(10)	Type of the cached object - Result - Dependency
STATUS	VARCHAR(9)	status of the object - New: Result is still under construction - Published: Result is available for use - Invalid: Result is no longer available for use
BUCKET_NO	NUMBER	Internal hash bucket of the object
HASH	NUMBER	Hash value of the object
NAME	VARCHAR(512)	SQL prefix
NAMESPACE	VARCHAR(3)	Namespace (SQL or PSM)
CREATION_TIMES TAMP	DATE	Time when the object was created

Column Name	Data Type	Description
CREATOR_UID	NUMBER	ID of the schema that created the object
DEPEND_COUNT	NUMBER	Number of dependencies or dependents
TSN	NUMBER	Build TSN or invalidation TSN
COLUMN_COUNT	NUMBER	Number of columns in the cached result
ROW_COUNT	NUMBER	Total number of rows in the cached result
PIN_COUNT	NUMBER	Number of active scans on this result
BUILD_TIME	NUMBER	Amount of time (in millisecond) it took to build the cached result
OBJECT_NO	NUMBER	Dictionary object number of the dependency object
INVALIDATIONS	NUMBER	Number of times the object has invalidated its dependents
SPACE_USED	NUMBER	Used space (in bytes) for the result
CACHE_ID	VARCHAR(512)	Cache ID for the result

4.2.98. V\$RESULT_CACHE_OBJECT_STATISTICS

Displays Result Cache Object statistics.

- Columns

Column Name	Data Type	Description
ID	NUMBER	ID of the cached object
NAME	VARCHAR(512)	SQL prefix
NAMESPACE	VARCHAR(3)	Namespace (SQL or UDF)
SEARCH_COUNT	NUMBER	Total number of searches in the cached result
HIT_COUNT	NUMBER	Total number of hits in the cached result
HIT_RATIO	NUMBER	Ratio of hits in the cached result

4.2.99. V\$RESULT_CACHE_STATISTICS

Displays various Result Cache settings and usage statistics.

- Columns

Column Name	Data Type	Description
ID	NUMBER	Statistic number
NAME	VARCHAR(40)	Name of the statistic
VALUE	NUMBER	Value of the statistic

4.2.100. V\$ROLLSTAT

Displays statistics of Undo usage.

- Columns

Column Name	Data Type	Description
USN	NUMBER	Undo segment number
EXTENTS	NUMBER	The number of extents
RSSIZE	NUMBER	The size of Undo segment
SEQNO	NUMBER	Sequence number of undo segment
INCNO	NUMBER	The number of undo segment incarnation
XACTS	NUMBER	The number of transactions which are performing the assigned Undo segment
HWMSIZE	NUMBER	The number of Undo blocks which were already used
SHRINKS	NUMBER	The number of times of shrinking Undo space
WRAPS	NUMBER	The number of times of reusing Undo space
EXTENDS	NUMBER	The number of times of extending Undo space
SHRINK_SIZE	NUMBER	The number of Undo blocks shrinking Undo space
ACTIVE_SIZE	NUMBER	The number of Undo blocks currently in use

Column Name	Data Type	Description
STATUS	NUMBER	Status information ("ONLINE" signifies a fixed status)
CUREXT	NUMBER	Extent that is currently in use
CURSIZE	NUMBER	The size of extent currently in use
CURBLK	NUMBER	Block number in use by the current extent
MAX_ACTIVE_SIZE	NUMBER	The maximum number of blocks used by Undo segment

4.2.101. V\$ROWCACHE

Displays details of status information on DD cache.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(16)	DD table name
SEARCH_KEY	NUMBER	Search key value in DD cache
BUCKETSET_ID	NUMBER	Bucketset ID in the search key
ENTRY_CNT	NUMBER	The number of entries cached in the bucketset
HIT_CNT	NUMBER	The number of times that DD cache succeeded
MISS_CNT	NUMBER	The number of times that DD cache failed
CACHE_SIZE	NUMBER	The size of the bucketset (in bytes)
PINNED_CNT	NUMBER	The number of entries pinned in the bucketset
INVALID_CNT	NUMBER	The number of invalid entries in the bucketset
NE_CNT	NUMBER	The number of entries for objects which do not exist in the bucketset

4.2.102. V\$RSBSTAT

Displays Stats of RSBs

- Columns

Column Name	Data Type	Description
CTX	CHAR(3)	Context (CCC, CWS)
MST_RSB	NUMBER	Count of Master RSBs
SHD_RSB	NUMBER	Count of Shadow RSBs
RECLAIMED	NUMBER	Accumulated Count of reclaimed RSBs
FAILED_BH	NUMBER	Accumulated Count of RSB reclamation failures (cached bh)
FAILED_USING	NUMBER	Accumulated Count of RSB reclamation failures (in use)
FAILED_GLOBAL	NUMBER	Accumulated Count of RSB reclamation failures (global rsb)
FAILED_PIN	NUMBER	Accumulated Count of RSB reclamation failures (pinned)
FAILED_INVALID	NUMBER	Accumulated Count of RSB reclamation failures (on invalid)

4.2.103. V\$RSRC_CONSUMER_GROUP

Displays data related to currently active resource consumer groups

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(32)	Name of the consumer group
ACTIVE_SESSIONS	NUMBER	Number of currently active sessions in the consumer group
CONSUMED_CPU_TIME	NUMBER	Cumulative amount of CPU time consumed by all sessions in the consumer group
YIELDS	NUMBER	Cumulative number of times that sessions in the consumer group had to yield CPU to other sessions because of quantum expiration
SMALL_READ_MEGABYTES	NUMBER	Number of single block megabytes read

Column Name	Data Type	Description
LARGE_READ_MEGABYTES	NUMBER	Number of multiblock megabytes read
SMALL_READ_REQUESTS	NUMBER	Number of single block read requests
LARGE_READ_REQUESTS	NUMBER	Number of multiblock read requests

4.2.104. V\$RSRC_PLAN

Displays the names of all currently active resource plans

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(32)	Name of the resource plan
IS_TOP_PLAN	VARCHAR(5)	Indicates whether the resource plan is the current top plan

4.2.105. V\$RSRC_SESSION_INFO

Displays resource manager statistics per session

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session identifier
CURRENT_CONSUMER_GROUP	VARCHAR(32)	The name of the consumer group in which the session currently belongs
STATE	VARCHAR(32)	Current state of the session
CONSUMED_CPU_TIME	NUMBER	Cumulative amount of CPU time consumed by the session
YIELDS	NUMBER	Cumulative number of times the session had to yield CPU to other sessions due to quantum expiration

Column Name	Data Type	Description
SMALL_READ_MEGABYTES	NUMBER	Total number of single block megabytes read by the session
LARGE_READ_MEGABYTES	NUMBER	Total number of multiblock megabytes read by the session
SMALL_READ_REQUESTS	NUMBER	Total number of single block read requests by the session
LARGE_READ_REQUESTS	NUMBER	Total number of multiblock read requests by the session

4.2.106. V\$RUNNING_JOBS

Displays information on running jobs.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID of the currently running job
JOB_ID	NUMBER	JOB ID of the currently running job
START_TIME	DATE	Start time of the job
FAILURE	NUMBER	Job failure count
INSTANCE	NUMBER	Instance name that started the currently running job

4.2.107. V\$RUNNING_JOBS_WITH_NAME

Displays information on running jobs with name.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID of the currently running job
JOB_ID	NUMBER	JOB ID of the currently running job
JOB_NAME	VARCHAR(100)	JOB name of the currently running job

Column Name	Data Type	Description
START_TIME	DATE	Start time of the job
FAILURE	NUMBER	Job failure count
INSTANCE	NUMBER	Instance name that started the currently running job

4.2.108. V\$SEGMENT_STATISTICS

!!! No documentation yet !!!

- Columns

Column Name	Data Type	Description
ID	NUMBER	Object ID
NAME	VARCHAR(128)	Object name
TYPE	VARCHAR(20)	Object type
STATISTICS#	NUMBER	Segment Statistics Type
STATISTICS_NAME	VARCHAR(64)	Name of the Segment Statistics
VALUE	NUMBER	Value of the Segment Statistics

4.2.109. V\$SESSION

Displays information on each session.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
SERIAL#	NUMBER	A serial number of a session (Like SID, used to recognize sessions)
AUDSID	NUMBER	A secondary serial number of a session
USER#	NUMBER	The current user's ID

Column Name	Data Type	Description
USERNAME	VARCHAR(128)	The current user's name
IPADDR	VARCHAR(21)	IP to which the user connects
COMMAND	NUMBER	Currently performing SQL type - 1: SELECT - 2: INSERT - 3: UPDATE - 4: DELETE - 5: MERGE - 6: CALL
STATUS	VARCHAR(32)	Status of session - READY: The session is ready - RUNNING: The session is running - TX_RECOVERING: The transaction is being recovered - SESS_CLEANUP: The session resources are being cleaned up - ASSIGNED: The session has an assigned thread, but is not ready yet - CLOSING: The session is being closed - ROLLING_BACK: The statement-level transaction of PE slave is rolling back.
SCHEMA#	NUMBER	The current schema ID
SCHEMANAME	VARCHAR(128)	The current schema name
TYPE	VARCHAR(15)	Session type - WTHR: Working thread - CTHR: Control thread - LGWR: Log writing process - CKPT: Checkpoint process

Column Name	Data Type	Description
		- LARC: Log archive - AGENT: Sequence process - MTHR: Monitoring process - DBWR: Datablock writing process - LNW: Log network writing process
SQL_ID	VARCHAR(13)	ID of the currently running SQL
SQL_CHILD_NUMBER	NUMBER	Child number of the currently running SQL
PREV_SQL_ID	VARCHAR(13)	ID of the last executed SQL
PREV_CHILD_NUMBER	NUMBER	Child number of the last executed SQL
SQL_ET	NUMBER	Elapsed time (ms) of SQL that is being performed
LOGON_TIME	DATE	Logon time
STATE	VARCHAR(25)	State of working thread - INVALID: Not intialized - NEW: Being created - IDLE: Ready to run - RUNNING: Running - WAITING: Waiting for internal message - RECV_WAITING: Waiting for client message - STOP_BY_MTHR: Stopped by MTHR - DEAD: Dead
WLOCK_WAIT	VARCHAR(18)	Type of wlock for which the session waits
WAIT_EVENT	NUMBER	Type of wait_event for which the session waits
WAIT_TIME	NUMBER	Waiting time of wait_event for which the session waits
PGA_USED_MEM	NUMBER	The amount of PGA memory occupied by the session
SQL_TRACE	VARCHAR(8)	Whether a session uses SQL trace

Column Name	Data Type	Description
PROG_NAME	VARCHAR(30)	Client program name
CLIENT_PID	NUMBER	Client PID
PID	NUMBER	Identifier of a process to which a session belongs
WTHR_ID	NUMBER	Index of a worker thread to which a session belongs
OS_THR_ID	NUMBER	Identifier of thread generated from OS to which a session belongs
OSUSER	VARCHAR(128)	OS account name of the session connected
MACHINE	VARCHAR(64)	Host name of the session connected
TERMINAL	VARCHAR(16)	Terminal(tty) information of the session connected
MODULE	VARCHAR(64)	Name of a module specified by dbms_application_info.set_module
ACTION	VARCHAR(64)	Name of an action specified by dbms_application_info.set_module/action
CLIENT_INFO	VARCHAR(64)	Name of client_info specified by dbms_application_info.set_client_info
CLIENT_IDENTIFIER	VARCHAR(64)	Name of client ID specified by dbms_session.set_identifier
PDML_ENABLED	VARCHAR(3)	Parallel dml enabled, YES or NO
PDML_STATUS	VARCHAR(8)	Parallel dml status, FORCE, ENABLED or DISABLED
PDDL_STATUS	VARCHAR(8)	Parallel ddl status, FORCE, ENABLED or DISABLED
PQ_STATUS	VARCHAR(8)	Parallel query status, FORCE, ENABLED or DISABLED
ROW_WAIT_OBJ_ID	NUMBER	Object ID of the row that causes a lock when waiting for a row lock.
ROW_WAIT_FILE_NO	NUMBER	File number of the row that causes a lock when waiting for a row lock.
ROW_WAIT_BLOCK_NO	NUMBER	Block number of the row that causes a lock when waiting for a row lock.

Column Name	Data Type	Description
ROW_WAIT_ROW_NO	NUMBER	Number of row that causes a lock when waiting for a row lock.
CONSUMER_GROUP	VARCHAR(32)	The name of the consumer group in which the session currently belongs
CON SUMED_CPU_TIME	NUMBER	Cumulative amount of CPU time consumed by the session

4.2.110. V\$SESSION_EVENT

Displays events that are performed in each session.

- Columns

Column Name	Data Type	Description
TID	NUMBER	Session ID
IDX	NUMBER	Event number
NAME	VARCHAR(40)	Name of the event
CLASS	VARCHAR(40)	Class of the event
DESC	VARCHAR(60)	Description of the event
TOTAL_WAITS	NUMBER	Total number of event calls
TOTAL_TIMEOUTS	NUMBER	The number of times that a time-out occurred in an event
TIME_WAITED	NUMBER	The amount of time waited for this event (msec)
AVERAGE_WAIT	NUMBER	The average amount of time waited for this event (msec)
MAX_WAIT	NUMBER	The maximum amount of time waited for this event (msec)

4.2.111. V\$SESSION_IO

Displays input/output which occurred in each session.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
BLOCK_GETS	NUMBER	The number of times of reading blocks in Current mode
CONSISTENT_GETS	NUMBER	The number of times of reading blocks in Consistent Read (CR) mode
PHYSICAL_READS	NUMBER	The number of blocks read in the disk
BLOCK_CHANGES	NUMBER	The number of times of changing a buffer read in Current mode
CONSIS TENT_CHANGES	NUMBER	The number of times of changing a buffer read in Consistent Read mode

4.2.112. V\$SESSION_LONGOPS

Displays status of sessions taking longer time than specified in LONGOPS_THRESHOLD_SEC seconds.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
SERIAL#	NUMBER	A serial number of a session (Like SID, used to recognize sessions)
USER_NAME	VARCHAR(128)	Name of the current user
WTHR_ID	NUMBER	Index of a working thread process to which a session belongs
SQL_ID	VARCHAR(13)	SQL identifier
SQL_PLAN_ID	NUMBER	SQL physical plan identifier
OPNAME	VARCHAR(128)	Name of the operation
TARGET	VARCHAR(128)	Name of the target object
SOFAR	NUMBER	The work throughput done so far

Column Name	Data Type	Description
TOTALWORK	NUMBER	The overall work throughput
UNITS	VARCHAR(128)	Unit of the work throughput
START_TIME	DATE	Start time of the session
ELAPSED_TIME	NUMBER	Total time for which a particular job has been performed (in milliseconds)
END_TIME	DATE	End time of the session

4.2.113. V\$SESSION_WAIT

Displays the waiting status of each session.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
NAME	VARCHAR(24)	Name of waiting event
ID1	NUMBER	ID1 of waiting target
ID2	NUMBER	ID2 of waiting target
SEQ#	NUMBER	Sequence of wait event
TIME_WAITED	NUMBER	Time for which an event was waiting (msec)
TIMEOUT	NUMBER	Time-out value (msec)

4.2.114. V\$SESSTAT

Displays statistics of each session.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID

Column Name	Data Type	Description
STAT#	NUMBER	Number of event to obtain statistics
NAME	VARCHAR(60)	Name of event to obtain statistics
CLASS	NUMBER	Class of the event
VALUE	NUMBER	Value of the event (Corresponding to the event name)

4.2.115. V\$SESS_TIME_MODEL

Displays the session-level time statistics.

- Columns

Column Name	Data Type	Description
SID	NUMBER	Session ID
STAT_ID	NUMBER	Identifier of a time statistics
STAT_NAME	VARCHAR(64)	Name of a time statistics
VALUE	NUMBER	Amount of time (in microseconds)

4.2.116. V\$SGA

Displays information on shared memory used in the database.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(40)	Name of shared memory space - SHARED MEMORY: Total shared memory size allocated during instance startup according to the value of TOTAL_SHM_SIZE. - FIXED MEMORY: Total fixed memory area size fixed for database buffers, redo buffers, etc. - SHARED POOL MEMORY: Total/used shared pool size for various purposes. Memory is allocated on de

Column Name	Data Type	Description
		mand using a shared pool allocator specific to the purpose. The size of the allocators can be extended as long as the pool is available. - SHARED POOL ALLOCATORS (LC): Total/used memory size of the allocators for library cache memory. - SHARED POOL ALLOCATORS (DD): Total/used memory size of the allocators for data dictionary cache memory. - SHARED POOL ALLOCATORS (SLAB): Total/used memory size of the allocators for slab memory. - SHARED POOL ALLOCATORS (MISC): Total/used memory size of the allocators for miscellaneous memory. - SHARED POOL ALLOCATORS (Total): Total/used memory size of the allocators for all purposes. This size equals the sum of all allocator sizes. - Database Buffers: Total database buffer size allocated since instance startup according to the value of DB_CACHE_SIZE. - Redo Buffers: Total redo buffer size allocated during instance startup according to the value of LOG_BUFFER.
TOTAL	NUMBER	Size of shared memory space
USED	NUMBER	Usage of shared memory space

4.2.117. V\$SGASTAT

Displays information on the shared pool for a database, such as its purpose and how much of the shared pool is used.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(40)	Purpose for which shared pool is used
SIZE	NUMBER	Usage of shared pool

4.2.118. V\$SHP_ADVICE

Displays advice information on the shared pool for a database, such as a recommended shared pool size.

- Columns

Column Name	Data Type	Description
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4.2.119. V\$SLOG

Displays slog from the current system log file. Up to SLOG_VIEW_SIZE bytes are stored in the view.

- Columns

Column Name	Data Type	Description
TIME	TIMESTAMP(6)	TIME
MODULE	VARCHAR(3)	Module id
SESSION_ID	NUMBER	Session id
LOG_LEVEL	VARCHAR(1)	Log level
MESSAGE	VARCHAR(4000)	Message text

4.2.120. V\$SPINLOCK HOLDER

Displays spinlock information.

- Columns

Column Name	Data Type	Description
PID	NUMBER	Process ID
SID	NUMBER	ID of the session that owns the spinlock
NAME	VARCHAR(30)	Spinlock Name
ADDR	VARCHAR(16)	Spinlock address
GETS	NUMBER	The number of times a spinlock was acquired

4.2.121. V\$SPINUSE_STAT

Displays statistics of Spinlock.

- Columns

Column Name	Data Type	Description
LOCATION	VARCHAR(60)	Location of Spinlock
SLEEPS_CNT	NUMBER	The number of cases that a LOCK is possessed in LOCATION while sleeping to obtain Spinlock

4.2.122. V\$SQL

Displays details of a SQL child cursor execution.

- Columns

Column Name	Data Type	Description
SQL_ID	VARCHAR(13)	SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
FIRST_LOAD_TIME	DATE	Time that an SQL statement was first loaded
LAST_ACTIVE_TIME	DATE	Last time that statistics were collected
PARSING_USER_ID	NUMBER	Identifier of user that parsed an SQL statement for the first time
PARSING_SCHEMA_ID	NUMBER	Identifier of schema that parsed an SQL statement for the first time
MODULE	VARCHAR(64)	Name of module that had been set when an SQL statement was parsed for the first time
ACTION	VARCHAR(64)	Name of action that had been set when an SQL statement was first parsed
SQL_TEXT	VARCHAR(30000)	SQL text of the current cursor

Column Name	Data Type	Description
IS_SHAREABLE	VARCHAR(1)	Indicates whether this child cursor can be shared
CPU_TIME	NUMBER	CPU time (microseconds)
ELAPSED_TIME	NUMBER	Total execution time
PARSE_CALLS	NUMBER	The number of parsing requests
ROWS_PROCESSED	NUMBER	Total number of processed rows
FETCHES	NUMBER	The number of fetching times
EXECUTIONS	NUMBER	The number of times executing an SQL statement
END_OF_FETCH_COUNT	NUMBER	The number of times this SQL statement was fully executed
PX_SERVERS_EXECUTIONS	NUMBER	The number of times executing parallel execution slaves
APPLICATION_WAIT_TIME	NUMBER	Total amount of application wait time
CONCURRENCY_WAIT_TIME	NUMBER	Total amount of concurrency wait time
CLUSTER_WAIT_TIME	NUMBER	Total amount of cluster wait time
USER_IO_WAIT_TIME	NUMBER	Total amount of I/O wait time (by user)
DISK_READS	NUMBER	Disk read count
DIRECT_WRITES	NUMBER	Direct write count
BUFFER_GETS	NUMBER	Total number of buffers read in Consistent-Read mode
PHYSICAL_READ_REQUESTS	NUMBER	Disk read request count
PHYSICAL_READ_BYTES	NUMBER	Total number of bytes read from disks (in bytes)
PHYSICAL_WRITE_REQUESTS	NUMBER	Disk write request count
PHYSICAL_WRITE_BYTES	NUMBER	Total number of bytes write to disks (in bytes)

Column Name	Data Type	Description
SORTS	NUMBER	The number of sorts performed
OBJECT_STATUS	VARCHAR(14)	Status of the cursor

4.2.123. V\$SQLAREA

Displays details of SQL statement execution.

- Columns

Column Name	Data Type	Description
SQL_ID	VARCHAR(13)	SQL identifier
HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
LAST_ACTIVE_TIME	DATE	Last time that statistics were collected
FIRST_LOAD_TIME	DATE	Time that an SQL statement was first loaded
PARSING_USER_ID	NUMBER	Identifier of user that parsed an SQL statement for the first time
PARSING_SCHEMA_ID	NUMBER	Identifier of schema that parsed an SQL statement for the first time
MODULE	VARCHAR(64)	Name of module that had been set when an SQL statement was parsed for the first time
ACTION	VARCHAR(64)	Name of action that had been set when an SQL statement was first parsed
SQL_TEXT	VARCHAR(65532)	SQL text of the current cursor
CPU_TIME	NUMBER	CPU time (microseconds)
ELAPSED_TIME	NUMBER	Total execution time
PARSE_CALLS	NUMBER	The number of parsing requests
ROWS_PROCESSED	NUMBER	Total number of processed rows

Column Name	Data Type	Description
FETCHES	NUMBER	The number of fetching times
EXECUTIONS	NUMBER	The number of times executing an SQL statement
END_OF_FETCH_COUNT	NUMBER	The number of times this SQL statement was fully executed
PX_SERVERS_EXECUTIONS	NUMBER	The number of times executing parallel execution slaves
APPLICATION_WAIT_TIME	NUMBER	Total amount of application wait time
CONCURRENCY_WAIT_TIME	NUMBER	Total amount of concurrency wait time
CLUSTER_WAIT_TIME	NUMBER	Total amount of cluster wait time
USER_IO_WAIT_TIME	NUMBER	Total amount of I/O wait time (by user)
DISK_READS	NUMBER	Disk read count
DIRECT_WRITES	NUMBER	Direct write count
BUFFER_GETS	NUMBER	Total number of buffers read in Consistent-Read mode
PHYSICAL_READ_REQUESTS	NUMBER	Disk read request count
PHYSICAL_READ_BYTES	NUMBER	Total number of bytes read from disks (in bytes)
PHYSICAL_WRITE_REQUESTS	NUMBER	Disk write request count
PHYSICAL_WRITE_BYTES	NUMBER	Total number of bytes write to disks (in bytes)
SORTS	NUMBER	The number of sorts performed

4.2.124. V\$SQLSTATS

Displays information on SQL statement execution.

- Columns

Column Name	Data Type	Description
SQL_TEXT	VARCHAR(1000)	First thousand characters of the SQL text
SQL_ID	VARCHAR(13)	SQL identifier
HASH_VALUE	NUMBER	Hash value of the SQL statement
LAST_ACTIVE_TIME	DATE	Last time that statistics were collected
LAST_ACTIVE_CHILD_ADDRESS	RAW(8)	Address of the child physical plan when the statistics were collected
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SHAREABLE_MEM	NUMBER	Total shared memory (in bytes) occupied by all child cursors
CPU_TIME	NUMBER	CPU time (microseconds)
ELAPSED_TIME	NUMBER	Total execution time (in microseconds)
PARSE_CALLS	NUMBER	The number of parsing requests
ROWS_PROCESSED	NUMBER	Total number of processed rows
FETCHES	NUMBER	The number of fetching times
EXECUTIONS	NUMBER	The number of times executing an SQL statement
END_OF_FETCH_COUNT	NUMBER	The number of times this SQL statement was fully executed
PX_SERVERS_EXECUTIONS	NUMBER	The number of times executing parallel execution slaves
APPLICATION_WAIT_TIME	NUMBER	Total amount of application wait time
CONCURRENCY_WAIT_TIME	NUMBER	Total amount of concurrency wait time
CLUSTER_WAIT_TIME	NUMBER	Total amount of cluster wait time
USER_IO_WAIT_TIME	NUMBER	Total amount of I/O wait time (by user)
DISK_READS	NUMBER	Disk read count

Column Name	Data Type	Description
DIRECT_WRITES	NUMBER	Direct write count
BUFFER_GETS	NUMBER	Total number of buffers read in Consistent-Read mode
PHYSICAL_READ_RE QUESTS	NUMBER	Disk read request count
PHYSI CAL_READ_BYTES	NUMBER	Total number of bytes read from disks (in bytes)
PHYSI CAL_WRITE_RE QUESTS	NUMBER	Disk write request count
PHYSI CAL_WRITE_BYTES	NUMBER	Total number of bytes write to disks (in bytes)
SORTS	NUMBER	The number of sorts performed
DISK_READ_TIME	NUMBER	Total disk read time
TEMP_SGMT_READ_TIME	NUMBER	Total temp segment read time
TEMP_SGMT_WRITE_TIME	NUMBER	Total temp segment write time

4.2.125. V\$SQLTEXT

Displays texts of SQL statements belonging to the cursor.

- Columns

Column Name	Data Type	Description
HASH_VALUE	NUMBER	Hash value of SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
COMMAND_TYPE	NUMBER	Number code of SQL statement type
PIECE	NUMBER	Number given to each text of a split SQL statement
SQL_TEXT	VARCHAR(64)	Text of an SQL statement split into 64-byte texts

- See also

[V\\$SQLTEXT2](#)

[V\\$SQLTEXT_WITH_NEWLINES](#)

[V\\$SQLTEXT_WITH_NEWLINES2](#)

4.2.126. V\$SQLTEXT2

Displays texts of SQL statements belonging to the cursor.

- Columns

Column Name	Data Type	Description
HASH_VALUE	NUMBER	Hash value of SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
COMMAND_TYPE	NUMBER	Number code of SQL statement type
PIECE	NUMBER	Number given to each text of a split SQL statement
SQL_TEXT	VARCHAR(65532)	Text of an SQL statement split into 65532-byte texts

- See also

[V\\$SQLTEXT](#)

[V\\$SQLTEXT_WITH_NEWLINES](#)

[V\\$SQLTEXT_WITH_NEWLINES2](#)

4.2.127. V\$SQLTEXT_WITH_NEWLINES

Displays texts of SQL statements belonging to the cursor, without removing newline characters or blank characters.

- Columns

Column Name	Data Type	Description
HASH_VALUE	NUMBER	Hash value of SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
COMMAND_TYPE	NUMBER	Number code of SQL statement type
PIECE	NUMBER	Number given to each text of a split SQL statement.
SQL_TEXT	VARCHAR(64)	Text of an SQL statement split into 64-byte texts

- See also

[V\\$SQLTEXT](#)

[V\\$SQLTEXT2](#)

[V\\$SQLTEXT_WITH_NEWLINES2](#)

4.2.128. V\$SQLTEXT_WITH_NEWLINES2

Displays texts of SQL statements belonging to the cursor, without removing newline characters or blank characters.

- Columns

Column Name	Data Type	Description
HASH_VALUE	NUMBER	Hash value of SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
COMMAND_TYPE	NUMBER	Number code of SQL statement type
PIECE	NUMBER	Number given to each text of a split SQL statement.
SQL_TEXT	VARCHAR(65532)	Text of an SQL statement split into 65532-byte texts

- See also

[V\\$SQLTEXT](#)

[V\\$SQLTEXT_WITH_NEWLINES](#)

[V\\$SQLTEXT2](#)

4.2.129. V\$SQL_BIND_CAPTURE

Displays the values of the captured bind variables from the current session

- Columns

Column Name	Data Type	Description
SQL_HASH_VALUE	NUMBER	The Hash value of the sql
PLAN_HASH_VALUE	NUMBER	The Hash value of the physical plan
SQL_ID	VARCHAR(13)	The SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
USER_ID	NUMBER	The user id that performed the SQL
NAME	VARCHAR(128)	The name of the bind variable
POSITION	NUMBER	The position of the bind variable in the SQL
TYPE	NUMBER	The type number of the bind variable
TYPE_NAME	VARCHAR(128)	The type of the bind variable
PRECISION	NUMBER	The precision of the bind variable
SCALE	NUMBER	The scale of the bind variable
LENGTH	NUMBER	The length of the bind variable
TIME_CAPTURED	DATE	The time when the bind variable was captured
VALUE	VARCHAR(65532)	The value of the bind variable

4.2.130. V\$SQL_BIND_CAPTURE_ALL

Displays the values of the captured bind variables from all sessions

- Columns

Column Name	Data Type	Description
SQL_HASH_VALUE	NUMBER	The Hash value of the sql
PLAN_HASH_VALUE	NUMBER	The Hash value of the physical plan
SQL_ID	VARCHAR(13)	The SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
USER_ID	NUMBER	The user id that performed the SQL
NAME	VARCHAR(128)	The name of the bind variable
POSITION	NUMBER	The position of the bind variable in the SQL
TYPE	NUMBER	The type number of the bind variable
TYPE_NAME	VARCHAR(128)	The type of the bind variable
PRECISION	NUMBER	The precision of the bind variable
SCALE	NUMBER	The scale of the bind variable
LENGTH	NUMBER	The length of the bind variable
TIME_CAPTURED	DATE	The time when the bind variable was captured
VALUE	VARCHAR(65532)	The value of the bind variable

4.2.131. V\$SQL_EXPC_INFO

Displays information about expression execution of a physical plan

- Columns

Column Name	Data Type	Description
SQL_ID	VARCHAR(13)	SQL identifier
BIND_PARAM_CNT	NUMBER	Number of bind parameters

Column Name	Data Type	Description
BIND_TYPES	VARCHAR(65532)	Type of bind parameters
ALLOC_SIZE	NUMBER	Size of memory usage

4.2.132. V\$SQL_MONITOR

Shows the details of SQL statements that are currently being monitored or those that have been monitored through the real time SQL monitoring function.

- Columns

Column Name	Data Type	Description
STATUS	VARCHAR(19)	Shows the current execution state of the SQL statement. - EXECUTING: The SQL statement is currently being executed. - DONE(ERROR): The SQL statement generated a runtime error and was closed. - DONE(FIRST N ROWS): Execution completed before all rows were fetched. - DONE(ALL ROWS): Execution completed after all rows were fetched. - DONE: Completed execution of parallel slaves.
SQL_ID	VARCHAR(13)	SQL identifier
SQL_EXEC_START	DATE	The time when the execution started.
SQL_EXEC_ID	NUMBER	Execution identifier. Identifies multiple, simultaneous SQL executions. To specify a single SQL execution, three columns; SQL_ID, SQL_EXEC_START, and SQL_EXEC_ID must be defined.
SID	NUMBER	Session identifier
SESSION_SERIAL#	NUMBER	Session serial number
SQL_PLAN_HASH_VALUE	NUMBER	Hash value of the execution plan

Column Name	Data Type	Description
PX_QCSID	NUMBER	For parallel execution slaves, this indicates the identifier of the query coordinator session.
PX_MAXDOP	NUMBER	For parallel execution coordinators, this indicates the maximum allocated DDP value.
PX_SERVERS_REQUESTED	NUMBER	For parallel execution coordinators, this indicates the number of requested parallel slaves.
PX_SERVERS_ALLOCATED	NUMBER	For parallel execution coordinators, this indicates the number of allocated parallel slaves.
PX_SERVER#	NUMBER	For parallel execution slaves, this indicates a logical number of slaves within a single parallel execution set.
PX_SERVER_SET	NUMBER	Whether the parallel execution slave belongs to the producer set or the consumer set. (either 1 or 2)
PX_SERVER_GROUP	NUMBER	For parallel execution slaves, this indicates the logical group number when queries are performed by multiple query coordinators
MODULE	VARCHAR(48)	Name of a module specified by dbms_application_info.set_module
ACTION	VARCHAR(32)	Name of an action specified by dbms_application_info.set_module/action
CLIENT_INFO	VARCHAR(64)	Name of client_info specified by dbms_application_info.set_client_info
CLIENT_IDENTIFIER	VARCHAR(64)	Name of client identifier specified by dbms_session.set_identifier
PROGRAM	VARCHAR(48)	Client program name
WTHR_ID	NUMBER	Working thread identifier
USER#	NUMBER	The current user's identifier
USERNAME	VARCHAR(30)	The current user's name
SQL_TEXT	VARCHAR(2000)	Executed SQL statements (A maximum of 2000 characters)

Column Name	Data Type	Description
IS_FULL_SQLTEXT	VARCHAR(1)	Whether the value saved in the SQL_TEXT column is a full or partial SQL statement.
ERROR_NUMBER	NUMBER	Error number when a runtime error occurs.
ERROR_MESSAGE	VARCHAR(256)	Error messages when a runtime error occurs.
PSM_ENTRY_OBJECT_ID	NUMBER	Object ID of the top-most PSM procedure or function on the stack.
PSM_ENTRY_SUBPROGRAM_ID	NUMBER	The subprogram identifier of the procedure or function that was called upon entry into the PSM execution.
PSM_OBJECT_ID	NUMBER	The object identifier of the current executed PSM
PSM_SUBPROGRAM_ID	NUMBER	The subprogram identifier of the current executed PSM
CPU_TIME	NUMBER	CPU time (microseconds)
ELAPSED_TIME	NUMBER	SQL execution time (microseconds)
FETCHES	NUMBER	Number of fetches
APPLICATION_WAIT_TIME	NUMBER	Total amount of application wait time
CONCURRENCY_WAIT_TIME	NUMBER	Total amount of concurrency wait time
CLUSTER_WAIT_TIME	NUMBER	Total amount of cluster wait time
USER_IO_WAIT_TIME	NUMBER	Total amount of I/O wait time (by user)
DISK_READS	NUMBER	Disk read count
DIRECT_WRITES	NUMBER	Direct disk write cnt without through buffer cache
BUFFER_GETS	NUMBER	Total number of buffers read in Consistent-Read mode
PHYSICAL_READ_REQUESTS	NUMBER	Disk read request count
PHYSICAL_READ_BYTES	NUMBER	Total number of bytes read from disks (in bytes)

Column Name	Data Type	Description
PHYSICAL_WRITE_REQUESTS	NUMBER	Disk write request count
PHYSICAL_WRITE_BYTES	NUMBER	Total number of bytes write to disks (in bytes)

4.2.133. V\$SQL_PLAN

Displays information on physical plans to execute SQL statements.

- Columns

Column Name	Data Type	Description
HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
OPERATION	VARCHAR(128)	Name of operation job
OBJECT#	NUMBER	Identifier of object accessed by the job
OBJECT_OWNER	VARCHAR(128)	Name of user who has the object
OBJECT_NAME	VARCHAR(128)	Object name
OBJECT_TYPE	VARCHAR(20)	Object type
ID	NUMBER	Number given to each job of the physical plan
PARENT_ID	NUMBER	ID of the next execution step that operates on the output of the current step in the physical plan
DEPTH	NUMBER	Tree level of the physical plan
POSITION	NUMBER	Positions between all the jobs with the same PARENT_ID
SEARCH_COLUMNS	NUMBER	The number of keys used in index search

Column Name	Data Type	Description
COST	NUMBER	Job cost estimated by query optimizer
CPU_COST	NUMBER	CPU cost of the operation as estimated by optimizer
IO_COST	NUMBER	I/O cost of the operation as estimated by optimizer
CARDINALITY	NUMBER	The number of output results estimated by query optimizer
PSTART	VARCHAR(38)	In a partitioned table, a start partition for access
PEND	VARCHAR(38)	In a partitioned table, an end partition for access
OTHERS	VARCHAR(4000)	Other information specific to the execution step that users may find useful
ACCESS_PREDICATES	VARCHAR(4000)	Predicate information to access indexes or to handle joins
FILTER_PREDICATES	VARCHAR(4000)	Predicate information to handle filters
ADVISED_COLNO	VARCHAR(4000)	Column number(s) recommended as indexes by the advisor for the plan's TSCAN FULL node.

4.2.134. V\$SQL_PLAN_MONITOR

Displays plan level information about each SQL execution registered in V\$SQL_MONITOR. Each row corresponds to a single plan operation of one SQL execution.

- Columns

Column Name	Data Type	Description
STATUS	VARCHAR(19)	Shows the current execution state of the SQL statement. - EXECUTING: The SQL statement is currently being executed. - DONE(ERROR): The SQL statement generated a runtime error and was closed. - DONE(FIRST N ROWS): Execution completed before all rows were fetched.

Column Name	Data Type	Description
		- DONE(ALL ROWS): Execution completed after all rows were fetched. - DONE: Completed execution of parallel slaves.
SQL_ID	VARCHAR(13)	SQL identifier
SQL_EXEC_START	DATE	The time when the execution started.
SQL_EXEC_ID	NUMBER	Execution identifier. It is necessary to identify multiple simultaneous SQL executions. To identify a single SQL execution, three columns; SQL_ID, SQL_EXEC_START, and SQL_EXEC_ID must be defined. The three column values are used to match with corresponding rows in the V\$SQL_MONITOR.
SID	NUMBER	Session identifier
SQL_PLAN_HASH_VALUE	NUMBER	Hash value of the execution plan
PLAN_PARENT_ID	NUMBER	Identifier of the parent plan operation of this operation
PLAN_LINE_ID	NUMBER	Identifier of the plan operation
PLAN_OPERATION	VARCHAR(30)	Name of the plan operation
PLAN_DEPTH	NUMBER	Level of the plan operation within the execution plan tree
PLAN_POSITION	NUMBER	Logical number among siblings within the plan execution tree
PLAN_COST	NUMBER	Cost of the plan operation estimated by the optimizer
PLAN_CPU_COST	NUMBER	CPU cost of the plan operation estimated by the optimizer
PLAN_IO_COST	NUMBER	I/O cost of the plan operation estimated by the optimizer
PLAN_CARDINALITY	NUMBER	The number of rows displayed in a plan operation estimated by the optimizer
PLAN_OBJECT_OWNER	VARCHAR(30)	Owner of the table or index used by this operation

Column Name	Data Type	Description
PLAN_OBJECT_NAME	VARCHAR(30)	Name of the table or index used by this operation
PLAN_OBJECT_TYPE	VARCHAR(30)	Type of object used by this operation
PLAN_PARTITION_START	VARCHAR(64)	Start partition when accessing part of a partitioned object
PLAN_PARTITION_STOP	VARCHAR(64)	End partition when accessing part of a partitioned object
FIRST_CHANGE_TIME	DATE	First time the operation was changed to an upper level operation
LAST_CHANGE_TIME	DATE	Last time the operation was changed to an upper level operation
STARTS	NUMBER	Number of times the operation was executed. (Repeated index accesses, etc.)
OUTPUT_ROWS	NUMBER	Number of rows produced by this operation
PHYSICAL_READ_REQUESTS	NUMBER	Disk read count requested by this operation
PHYSICAL_READ_BYTES	NUMBER	Total number of bytes read from disks by this operation (in bytes)
PHYSICAL_WRITE_REQUESTS	NUMBER	Disk write count requested by this operation
PHYSICAL_WRITE_BYTES	NUMBER	Total number of bytes write to disks by this operation (in bytes)
WORKAREA_MEM	NUMBER	Size of private memory space occupied by this operation (in bytes)
WORKAREA_MAX_MEM	NUMBER	Maximum value for WORKAREA_MEM
WORKAREA_TEMPSEG	NUMBER	Sum of temporary segment size currently occupied by this operation (in bytes)
WORKAREA_MAX_TEMPSEG	NUMBER	Maximum value for WORKAREA_TEMPSEG

4.2.135. V\$SQL_PLAN_STATISTICS

Displays statistics of results of each physical plan job.

- Columns

Column Name	Data Type	Description
HASH_VALUE	NUMBER	Hash value of the SQL statement
PLAN_HASH_VALUE	NUMBER	Hash value of the physical plan
SQL_ID	VARCHAR(13)	SQL identifier
CHILD_NUMBER	NUMBER	The number of this child physical plan
ID	NUMBER	Number given to each job of the physical plan
EXECUTIONS	NUMBER	The number of times that a particular job has been performed
LAST_STARTS	NUMBER	The number of times that a particular job was started during the last execution
STARTS	NUMBER	Total number of times that a particular job has been started
LAST_OUT PUT_ROWS	NUMBER	The number of rows created in a particular job during the last execution
OUTPUT_ROWS	NUMBER	Total number of rows created in a particular job
LAST_LEFT_IN PUT_ROWS	NUMBER	The number of rows which a particular job accepted from a left-side lower job during the last execution
LEFT_INPUT_ROWS	NUMBER	Total number of rows which a particular job has accepted from a left-side lower job
LAST_RIGHT_IN PUT_ROWS	NUMBER	The number of rows which a particular job accepted from a right-side lower job during the last execution
RIGHT_INPUT_ROWS	NUMBER	Total number of rows which a particular job has accepted from a right-side lower job
LAST_CR_BUFFER_GETS	NUMBER	The number of buffers which a particular job read in Consistent-Read mode during the last execution

Column Name	Data Type	Description
CR_BUFFER_GETS	NUMBER	Total number of buffers which a particular job has read in Consistent-Read mode
LAST_ELAPSED_TIME	NUMBER	Time for which a particular job was performed in the last execution (in milliseconds)
ELAPSED_TIME	NUMBER	Total time for which a particular job has been performed (in milliseconds)
LAST_MEM_USAGE	NUMBER	Memory usage for a particular operation during the last execution.
MEM_USAGE	NUMBER	Total memory usage for which a particular job has been performed
LAST_TEMP_SEGMENT_READ_CNT	NUMBER	The number of temporary segment read which a particular job was performed in the last execution
TEMP_SEGMENT_READ_CNT	NUMBER	Total number of temporary segment read which a particular job was performed in the last execution
LAST_TEMP_SEGMENT_WRITE_CNT	NUMBER	The number of temporary segment write which a particular job was performed in the last execution
TEMP_SEGMENT_WRITE_CNT	NUMBER	Total number of temporary segment write which a particular job was performed in the last execution
LAST_CU_BUFFER_GETS	NUMBER	The number of buffers which a particular job read in Current mode during the last execution
CU_BUFFER_GETS	NUMBER	Total number of buffers which a particular job has read in Current mode
LAST_DISK_READS	NUMBER	The number of physical disk reads performed by the operation, during the last execution
DISK_READS	NUMBER	The number of physical disk reads performed by the operation, accumulated over the past executions

4.2.136. V\$SQL_WORKAREA

Display information about work areas used by SQL cursors.

- Columns

Column Name	Data Type	Description
ADDRESS	RAW(8)	Address of the parent statement
HASH_VALUE	NUMBER	Hash value of the parent statement in the library cache
SQL_ID	VARCHAR(13)	SQL identifier of the parent statement in the library cache
WORKAREA_ADDRESS	RAW(8)	Address of the work area
OPERATION_TYPE	VARCHAR(20)	Operation type that uses the work area
OPERATION_ID	NUMBER	Identifier used to distinguish this operation from the execution plan
POLICY	VARCHAR(10)	Policy that determines the work area size (MANUAL or AUTO)
ESTIMATED_OPTIMAL_SIZE	NUMBER	The minimum size (in bytes) for the work area to be executed in memory only
ESTIMATED_ONEPASS_SIZE	NUMBER	The minimum size (in bytes) of the work area, to be executed by one-time disk use
LAST_MEMORY_USED	NUMBER	The memory size (in bytes) that was used by the work area during the last execution
LAST_EXECUTION	VARCHAR(10)	The Process that the work area used during the last execution - OPTIMAL: optimal mode execution - N PASS: multi pass mode execution
LAST_DEGREE	NUMBER	Parallelization degree of the work area, during the last execution
TOTAL_EXECUTIONS	NUMBER	Count of the number of times the work area was executed
OPTIMAL_EXECUTIONS	NUMBER	Count of the number of times that the work area was executed in optimal mode
ONEPASS_EXECUTIONS	NUMBER	Count of the number of times that the work area was executed in one-pass mode

Column Name	Data Type	Description
MULTIPASSES_EXECUTIONS	NUMBER	Count of the number of times that the work area was executed in multi-pass mode
ACTIVE_TIME	NUMBER	Average time this work area is active
MAX_TEMPSEG_SIZE	NUMBER	The maximum size (in bytes) of a temporary segment, that the work area uses
LAST_TEMPSEG_SIZE	NUMBER	The temporary segment size (in bytes), that was used by the work area in the last execution

4.2.137. V\$SQL_WORKAREA_HISTOGRAM

Display the cumulative work area execution statistics

- Columns

Column Name	Data Type	Description
LOW_OPTIMAL_SIZE	NUMBER	The lower bounding value (in bytes) for the optimal size
HIGH_OPTIMAL_SIZE	NUMBER	The higher bounding value (in bytes) for the optimal size
OPTIMAL_EXECUTIONS	NUMBER	Number of work areas with an optimal memory requirement between LOW_OPTIMAL_SIZE and HIGH_OPTIMAL_SIZE which have been executed in optimal mode.
ONEPASS_EXECUTIONS	NUMBER	The number of work areas that were executed in one-pass mode, within each LOW_OPTIMAL_SIZE and HIGH_OPTIMAL_SIZE bound
MULTIPASSES_EXECUTIONS	NUMBER	The number of work areas that were executed in multi-pass mode, within each LOW_OPTIMAL_SIZE and HIGH_OPTIMAL_SIZE bound
TOTAL_EXECUTIONS	NUMBER	The total number of work areas that were executed within each LOW_OPTIMAL_SIZE and HIGH_OPTIMAL_SIZE bound

4.2.138. V\$SSVR_CLIENT

Displays information of valid connection to the storage server instance.

- Columns

Column Name	Data Type	Description
ADDRESS	VARCHAR(20)	ITHR address number
PORT	NUMBER	ITHR port number
NAME	VARCHAR(128)	DB name
THREAD_NUMBER	NUMBER	Connection Thread number

4.2.139. V\$SSVR_FLASHCACHE

Displays information of flashcaches used by the storage server instance.

- Columns

Column Name	Data Type	Description
FLASHCACHE_NUMBER	NUMBER	Flashcache number
NAME	VARCHAR(32)	Flashcache name
PATH	VARCHAR(256)	Flashcache path (full)
OS_BYTES	NUMBER	Flashcache size

4.2.140. V\$SSVR_GRID_DISK

Displays information of grid disks.

- Columns

Column Name	Data Type	Description
GRID_DISK_NUMBER	NUMBER	Grid disk number
NAME	VARCHAR(128)	Grid disk name

Column Name	Data Type	Description
STORAGE_DISK_NUMBER	NUMBER	Storage disk number
STORAGE_DISK_OFFSET	NUMBER	Storage disk offset
TOTAL_BYTES	NUMBER	Grid disk size

4.2.141. V\$SSVR_IOLOAD

IO load of storage server

- Columns

Column Name	Data Type	Description
DISK_TYPE	VARCHAR(32)	SSVR disk type (FC / Disk)
DISK_NAME	VARCHAR(32)	Storage disk name / flashcache dev name
READ_CNT	NUMBER	Number of read call counts requested by DBMS to SSVR being processed
READ_CNT_INTERNAL	NUMBER	Number of read call counts requested by Flashcache to disk being processed
READ_MB	NUMBER	Amount of reads requested by DBMS to SSVR being processed
READ_INTERNAL_MB	NUMBER	Amount of reads requested by Flashcache to disk being processed
WRITE_CNT	NUMBER	Number of write call counts requested by DBMS to SSVR being processed
WRITE_CNT_INTERNAL	NUMBER	Number of write call counts requested by Flashcache to disk being processed
WRITE_MB	NUMBER	Amount of writes requested by DBMS to SSVR being processed
WRITE_INTERNAL_MB	NUMBER	Amount of writes requested by Flashcache to disk being processed

4.2.142. V\$SSVR_IORM_CATEGORY_PLAN

Category Plan List used by the storage server instance

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(128)	Category plan name
SHARE_NUMBER	NUMBER	Share percentage of category plan
LIMIT	NUMBER	Share limit of category plan
STATUS	VARCHAR(8)	Active status of category plan

4.2.143. V\$SSVR_IORM_DB_PLAN

DB Plan List used by the storage server instance

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(128)	DB plan name
SHARE_NUMBER	NUMBER	Share percentage of DB plan
LIMIT	NUMBER	Share limit of DB plan
STATUS	VARCHAR(8)	Active status of DB plan

4.2.144. V\$SSVR_IOSTAT

IO stat per sec of storage server

- Columns

Column Name	Data Type	Description
DISK_TYPE	VARCHAR(32)	SSVR disk type (FC / Disk)
DISK_NAME	VARCHAR(32)	Storage disk name / flashcache dev name

Column Name	Data Type	Description
TPS_READ	NUMBER	Number of read call counts requested by DBMS to SSVR being processed (per second)
TPS_READ_INTER NAL	NUMBER	Number of read call counts requested by Flashcache to disk being processed (per second)
READ_MB_sec	NUMBER	Amount of reads requested by DBMS to SSVR being processed (per second)
READ_INTER NAL_MB_sec	NUMBER	Amount of reads requested by Flashcache to disk being processed (per second)
TPS_WRITE	NUMBER	Number of write call counts requested by DBMS to SSVR being processed (per second)
TPS_WRITE_INTER NAL	NUMBER	Number of write call counts requested by Flashcache to disk being processed (per second)
WRITE_MB_sec	NUMBER	Amount of writes requested by DBMS to SSVR being processed (per second)
WRITE_INTER NAL_MB_sec	NUMBER	Amount of writes requested by Flashcache to disk being processed (per second)

4.2.145. V\$SSVR_MEMSTAT

Memory stat of storage server

- Columns

Column Name	Data Type	Description
TOTAL_PGA_MEMO RY_MB	NUMBER	Total amount of PGA memory
FIXED_PGA_MEMO RY_MB	NUMBER	Fixed PGA memory for SSVR system initialize
USED_PGA_MEMO RY_MB	NUMBER	Used PGA memory for SSVR
TO TAL_SHARED_MEMO RY_MB	NUMBER	Total amount of shared memory

Column Name	Data Type	Description
FIXED_SHARED_MEMORY_MB	NUMBER	Fixed shared memory for SSVR system initialize
USED_SHARED_MEMORY_MB	NUMBER	Used shared memory for SSVR

4.2.146. V\$SSVR_SLAB_STAT

used buffer slab information of storage server

- Columns

Column Name	Data Type	Description
SLAB_SIZE	NUMBER	buf_L1_pool slab size
SLAB_GET_CNT	NUMBER	buf_L1_pool slab get count
TOTAL_CHUNK_CNT	NUMBER	buf_L1_pool chunk count
MAX_CHUNK_CNT	NUMBER	buf_L1_pool max chunk count

4.2.147. V\$SSVR_STORAGE_DISK

Displays information of storage disks used by the storage server instance.

- Columns

Column Name	Data Type	Description
STORAGE_DISK_NUMBER	NUMBER	Storage disk number
NAME	VARCHAR(128)	Storage disk name
PATH	VARCHAR(256)	Storage disk path (full)
OS_BYTES	NUMBER	Storage disk size

4.2.148. V\$STANDBY

Displays information on the database duplication in the RDBMS Standby Cluster.

- Columns

Column Name	Data Type	Description
PRIMARY_ADDR	VARCHAR(80)	Host name and port number of the connection from the primary DB
STATUS	VARCHAR(40)	Status of a thread related to standby
PRIMARY_TSN	NUMBER	TSN updated from primary DB
RECVED_SEQ	NUMBER	Log sequence number received from primary DB
RECVED_BLKNO	NUMBER	Log block number received from primary DB
RECVED_TSN	NUMBER	TSN of last received log block
ACKED_SEQ	NUMBER	Sequence number of the log which the standby DB reported was successfully flushed
ACKED_BLKNO	NUMBER	Block number of the log which the standby DB reported was successfully flushed
RECOVERED_SEQ	NUMBER	Log sequence number recovered by SMR of the standby DB
RECOVERED_BLKNO	NUMBER	Log block number recovered by SMR of the standby DB
RECOVERED_TSN	NUMBER	TSN after recovered by SMR of the standby DB
OPEN_SEQ	NUMBER	Log sequence number that cannot be used to access the DB as standby
OPEN_BLKNO	NUMBER	Log block number that cannot be used to access the DB as standby

4.2.149. V\$STANDBY_ARCHIVED_LOG

Displays standby archive log information.

- Columns

Column Name	Data Type	Description
RECID	NUMBER	Archive log record ID
THREAD#	NUMBER	Log group number recorded by instances of a server
NAME	VARCHAR(256)	Archive log file path and name
SEQUENCE#	NUMBER	Sequence number of the log group
FIRST_CHANGE#	NUMBER	TSN associated with the first archive log that belongs to the log group
FIRST_TIME	DATE	Time when the first archive log that belongs to the log group was recorded
NEXT_CHANGE#	NUMBER	TSN associated with the next archive log that belongs to the log group
RESET LOGS_CHANGE#	NUMBER	Resetlogs TSN of the database when the log was written
RESETLOGS_TIME	DATE	Resetlogs time of the database when the log was written
FILESIZE	NUMBER	Size of logfile in bytes
BLOCKS	NUMBER	Number of blocks in logfile
BLOCK_SIZE	NUMBER	Size of log block

4.2.150. V\$STANDBY_DEST

Displays information on the standby DB in the RDBMS Standby Cluster.

- Columns

Column Name	Data Type	Description
STANDBY_ADDR	VARCHAR(80)	Host name of standby DB and port number
TYPE	VARCHAR(16)	Standby type - LGWR SYNC - LGWR ASYNC - ARCH ASYNC

Column Name	Data Type	Description
		- LGWR PROXY
THREAD#	NUMBER	Redo thread#
FLAGS	VARCHAR(32)	Other information of standby - CONNECTED: connected - NOT CONNECTED: not connected
SENT_SEQ	NUMBER	Sequence number of transmitted log
SENT_BLKNO	NUMBER	Block number of transmitted log
ACKED_SEQ	NUMBER	Log sequence number reporting that the standby DB was successfully flushed
ACKED_BLKNO	NUMBER	Log block number reporting that the standby DB was successfully flushed

4.2.151. V\$STANDBY_LOG

Displays information of log groups.

- Columns

Column Name	Data Type	Description
THREAD#	NUMBER	Log group number recorded by instances of a server
GROUP#	NUMBER	Log group number
SEQUENCE#	NUMBER	Sequence number of the log group
BYTES	NUMBER	Size of the log group
MEMBERS	NUMBER	The number of log member files that belong to the log group
ARCHIVED	VARCHAR(3)	Whether it was archived or not
STATUS	VARCHAR(8)	Status information of the log group - ACTIVE: File archive needs to be done

Column Name	Data Type	Description
		- UNUSED: The log file has not been used - CURRENT: The log file is currently in use - INACTIVE: File archive has been completed
FIRST_CHANGE#	NUMBER	TSN associated with the first log that belongs to the log group
FIRST_TIME	DATE	Time when the first log that belongs to the log group was recorded

4.2.152. V\$STANDBY_LOGFILE

Displays information of log member files.

- Columns

Column Name	Data Type	Description
GROUP#	NUMBER	Log group number to which the log member file belongs.
STATUS	VARCHAR(7)	Status information of the log member file (Whether or not the log member file was deleted. Currently, it is always set to null.)
TYPE	CHAR(6)	Always ONLINE
MEMBER	VARCHAR(256)	Path name of the log member file

4.2.153. V\$STANDBY_STATUS

Displays information on log duplication of the primary DB in the RDBMS Standby Cluster.

- Columns

Column Name	Data Type	Description
STANDBY_MODE	VARCHAR(16)	Data protection level
FLUSHED_SEQ	NUMBER	Sequence number of log flushed by the standby DB working in LGWR SYNC mode

Column Name	Data Type	Description
FLUSHED_BLKNO	NUMBER	Block number of the log flushed by the standby DB working in LGWR SYNC mode
SYNC	VARCHAR(8)	Whether or not LGWR participates in the actions of standby
WAITING	VARCHAR(8)	Event for which LGWR is waiting
DETAILS	VARCHAR(40)	Details of the event for which LGWR is waiting

4.2.154. V\$STATNAME

Displays the detailed information on the statistics event.

- Columns

Column Name	Data Type	Description
STAT#	NUMBER	Event number to obtain statistics
NAME	VARCHAR(60)	Event name to obtain statistics
CLASS	NUMBER	Class number of the event
CLASS_NAME	VARCHAR(40)	Class name of the event

4.2.155. V\$SYSSTAT

Displays statistics of a system.

- Columns

Column Name	Data Type	Description
STAT#	NUMBER	Event number to obtain statistics
NAME	VARCHAR(60)	Event name to obtain statistics
CLASS	NUMBER	Class number of the event
VALUE	NUMBER	Value of the event (Corresponding to the event name)

4.2.156. V\$SYSSTAT_VALUE

Displays values for getting statistics of a system.

- Columns

Column Name	Data Type	Description
STAT#	NUMBER	Event number to obtain statistics
NAME	VARCHAR(60)	Event name to obtain statistics
VALUE	NUMBER	Value of the event

4.2.157. V\$SYSTEM_EVENT

Displays events performing in the system.

- Columns

Column Name	Data Type	Description
IDX	NUMBER	Event number
NAME	VARCHAR(40)	Name of the event
CLASS	VARCHAR(40)	Class of the event
DESC	VARCHAR(60)	Description of the event
TOTAL_WAITS	NUMBER	Total number of event calls
TOTAL_TIMEOUTS	NUMBER	The number of times that a time-out occurred in an event
TIME_WAITED	NUMBER	The amount of time waited for this event (msec)
AVERAGE_WAIT	NUMBER	The average amount of time waited for this event (msec)
MAX_WAIT	NUMBER	The maximum amount of time waited for this event (msec)

4.2.158. V\$SYSTEM_PARAMETERS

Displays system parameter values.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(64)	System parameter name
VALUE	VARCHAR(1024)	System parameter value

4.2.159. V\$SYS_TIME_MODEL

Displays the system-level time statistics.

- Columns

Column Name	Data Type	Description
STAT_ID	NUMBER	Identifier of a time statistics
STAT_NAME	VARCHAR(64)	Name of a time statistics
VALUE	NUMBER	Amount of time (in microseconds)

4.2.160. V\$TABLESPACE

Displays information on tablespaces.

- Columns

Column Name	Data Type	Description
TS#	NUMBER	A serial number of tablespace
NAME	VARCHAR(128)	Tablespace name
TYPE	VARCHAR(4)	Tablespace type - DATA - UNDO - TEMP
BIGFILE	CHAR(2)	NO in all cases
FLASHBACK_ON	CHAR(2)	NO in all cases

4.2.161. V\$TACSTAT

Displays statistics of a TAC.

- Columns

Column Name	Data Type	Description
STAT#	NUMBER	Event number to obtain statistics
NAME	VARCHAR(60)	Event name to obtain statistics
VALUE	NUMBER	Value of the event (Corresponding to the event name)

4.2.162. V\$TEMPFILE

Displays temporary files in the database.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	Temporary file number
CREATE_TSN	NUMBER	TSN that created the temporary file
CREATE_DATE	DATE	Time that the temporary file was created
TS#	NUMBER	Number of a tablespace including the temporary file
RFILE#	NUMBER	Relative number of the temporary file in a tablespace
ENABLED	CHAR(3)	Availability (YES in all cases)
BLOCKS	NUMBER	Size of temporary file (the number of blocks)
CREATE_SIZE	NUMBER	Temporary file size when the file was created
NAME	VARCHAR(256)	Path name of temporary file

4.2.163. V\$TEMPSEG_OP_USAGE

Displays temporary segments usage in the server.

- Columns

Column Name	Data Type	Description
SEGTYPE	VARCHAR(32)	Temporary segment type - SORT - HASH - ANALYTIC - INDEX - DATA - LOBDATA
CURRENT_EXTENTS	NUMBER	The number of extents currently allocated
PEEK_EXTENTS	NUMBER	The peak number of extents allocated after instance boot
MAX_ONE_OP_EXTENTS	NUMBER	The maximum number of extents allocated in single operation

4.2.164. V\$TEMPSEG_USAGE

Displays temporary segments in the server.

- Columns

Column Name	Data Type	Description
USERNAME	VARCHAR(32)	Name of user using the temporary segment
SESSION_NUM	NUMBER	Number of sessions using the temporary segment
SQL_ID	NUMBER	ID of PP cache used by the temporary segment
TABLESPACE	VARCHAR(128)	Name of tablespace containing the temporary segment
SEGTYPE	VARCHAR(32)	Temporary segment type - SORT - HASH - ANALYTIC - INDEX

Column Name	Data Type	Description
		- DATA - LOBDATA
SEGFILE#	NUMBER	Absolute number of a file containing the header block of the temporary segment
SEGBLK#	NUMBER	Block number of the header block of the temporary segment
EXTENTS	NUMBER	The number of extents in the temporary segment
BLOCKS	NUMBER	The number of blocks in the temporary segment
SEGRFNO#	NUMBER	Relative number of a file containing the header block of the temporary segment

4.2.165. V\$TEMPSTAT

Displays statistics of file I/O.

- Columns

Column Name	Data Type	Description
FILE#	NUMBER	File number
PHYRDS	NUMBER	The number of reading times
PHYWRTS	NUMBER	The number of writing times
PHYBLKRD	NUMBER	The number of read blocks
PHYBLKWRT	NUMBER	The number of written blocks
SINGLEBLKRDS	NUMBER	The number of times of reading a single block
READTIM	NUMBER	Reading time (msec)
WRITETIM	NUMBER	Writing time (msec)
SINGLEBLKRDTIM	NUMBER	Time for which a single block was read (msec)
AVGIOTIM	NUMBER	Average I/O time (msec)

Column Name	Data Type	Description
LSTIOTIM	NUMBER	Last I/O time (msec)
MINIOTIM	NUMBER	Shortest I/O time (msec)
MAXIORTM	NUMBER	Longest reading time (msec)
MAXIOWTM	NUMBER	Longest writing time (msec)

4.2.166. V\$THRINFO

Information on thr_info

- Columns

Column Name	Data Type	Description
THR_ID	NUMBER	Index of thread
THR_TYPE	VARCHAR(15)	Type of thread
THR_NAME	VARCHAR(8)	Name of thread
THR_STATUS	VARCHAR(25)	Status of thread
PID	NUMBER	Process id
PROC_IDX	NUMBER	Process index
PHY_TID	NUMBER	Thread index inside a process
PTHREAD_ID	NUMBER	Pthread id (for pthread_kill etc.)
BITQ_DATA	NUMBER	Bitmask data
BITQ_SIGFLAG	NUMBER	Used by async. signal handler
FLAG	NUMBER	Thread flag (for stop / shutdown etc.)
SPINLOCK_ACQ_CNT	NUMBER	Count of acquired spinlock
SPIN_WAIT	VARCHAR(18)	Spinlock address
TIMEOUT	NUMBER	Bitq_read timeout

4.2.167. V\$THR_ACT_INFO

Displays information on activities of the threads.

- Columns

Column Name	Data Type	Description
THR_ID	NUMBER	Thread index
THR_TYPE	VARCHAR(15)	Thread type
THR_NAME	VARCHAR(8)	Thread name
THR_STATUS	VARCHAR(25)	Thread status
PID	NUMBER	Process id
PROC_IDX	NUMBER	Process index
PHY_TID	NUMBER	Thread index within the process
PTHREAD_ID	NUMBER	Pthread id (for pthread_kill etc.)
CUR_ACT_CNT	NUMBER	Current activity counter
NO_ACT_TIME	NUMBER	Elapsed time without explicit thread activity
NO_ACT_TIME_LIMIT	NUMBER	Limit of the elapsed time without explicit thread activity
ACT_REPORT	VARCHAR(3)	Whether or not to report thread activity (on/off)

4.2.168. V\$THR_EVENT

Displays events that are performed in each thread.

- Columns

Column Name	Data Type	Description
TID	NUMBER	Thread ID
IDX	NUMBER	Index of the event
NAME	VARCHAR(40)	Name of the event
CLASS	VARCHAR(40)	Class of the event

Column Name	Data Type	Description
DESC	VARCHAR(60)	Description of the event
TOTAL_WAITS	NUMBER	Total number of event calls
TOTAL_TIMEOUTS	NUMBER	The number of times that a time-out occurred in an event
TIME_WAITED	NUMBER	The amount of time waited for this event (msec)
AVERAGE_WAIT	NUMBER	The average amount of time waited for this event (msec)
MAX_WAIT	NUMBER	The maximum amount of time waited for this event (msec)

4.2.169. V\$TIMER

Displays information on the system timer.

- Columns

Column Name	Data Type	Description
TICK	NUMBER	Elapsed time since the system started

4.2.170. V\$TIMEZONE_NAMES

Displays timezone names.

- Columns

Column Name	Data Type	Description
TZNAME	VARCHAR(40)	Name of the timezone
TZABBREV	VARCHAR(8)	Abbreviation of the timezone

4.2.171. V\$TRANSACTION

Displays ongoing transactions.

- Columns

Column Name	Data Type	Description
SESS_ID	NUMBER	ID of session operation transactions
USN	NUMBER	Number of Undo segment assigned in the transaction
SLOT	NUMBER	Slot number of transaction in use
WRAP	NUMBER	The number of times of reusing a transaction slot
UEA_FILE	NUMBER	Number of a file containing Undo which a transaction used most recently
UEA_BLK	NUMBER	Number of a block containing Undo which a transaction used most recently
UEA_SEQ	NUMBER	A serial number of Undo which a transaction used most recently
UEA_ROW	NUMBER	A row number of Undo which a transaction used most recently
STATE	NUMBER	Status of transaction
START_TIME	DATE	Transaction start time
START_BASE	NUMBER	Child value of transaction start TSN
START_WRAP	NUMBER	Parent value of transaction start TSN
START_UEXT	NUMBER	Extent number of Undo space when the transaction starts
START_FILE	NUMBER	File number of Undo space when the transaction starts
START_BLK	NUMBER	Block number of Undo space when the transaction starts
START_SEQ	NUMBER	A serial number of Undo space when the transaction starts
START_ROW	NUMBER	Row number of Undo space when the transaction starts
START_INCNO	NUMBER	Incarnation number of Undo space when the transaction starts
FLAG	NUMBER	Flags

Column Name	Data Type	Description
SPACE	NUMBER	Whether or not the transaction is a space management transaction
NAME	VARCHAR(256)	Transaction name
PTX_USN	NUMBER	Number of Undo segment assigned to the parent transaction
PTX_SLOT	NUMBER	Number of transaction slot in use by the parent transaction
PTX_WRAP	NUMBER	The number of times of reusing a transaction slot in use by the parent transaction
LOG_IO	NUMBER	The number of logical io by transactions
PHY_IO	NUMBER	The number of physical io used by transactions
CR_GET	NUMBER	The number of Consistent block gets by transactions
RECOVERY	VARCHAR(8)	Recovery status - RECOVERY - SUSPEND
USED_BLK	NUMBER	The number of Undo blocks used by transactions
USED_REC	NUMBER	The number of Undo records used by transactions
EXP_RB_TIME	NUMBER	Expectation value of rollback time
TX_TYPE	VARCHAR(20)	Transaction type - LOCAL - XA - XA_RECOVERY - DBLINK

4.2.172. V\$TSN_TIME

Displays the mapping table of TSN and time.

- Columns

Column Name	Data Type	Description
TSN	NUMBER	TSN
TIME	TIMESTAMP(6)	TIMESTAMP

4.2.173. V\$UNDOSTAT

Displays statistics of Undo storage.

- Columns

Column Name	Data Type	Description
BEGIN_TIME	DATE	Start time of statistics
END_TIME	DATE	End time of statistics
UNDO_TSNO	NUMBER	Tablespace number
UNDOBLKS	NUMBER	The number of used blocks
TXCOUNT	NUMBER	Total number of executed transactions
MAXCONCURRENCY	NUMBER	The largest number of concurrently executed transactions
SNAP_TOO_OLD_CNT	NUMBER	The number of errors caused by failing to read old data
NOSPACEERRCNT	NUMBER	The number of errors caused by lack of Undo storage space
ACTIVEBLKS	NUMBER	The number of blocks in use
UNEXPIREDBLKS	NUMBER	The number of non reusable blocks
EXPIREDBLKS	NUMBER	The number of reusable blocks

4.2.174. V\$UNDO_FREE_SPACE

Displays free space in block count for each UNDO tablespace.

- Columns

Column Name	Data Type	Description
TS_ID	NUMBER	ID of the UNDO tablespace
TS_NAME	VARCHAR(128)	Name of the UNDO tablespace
TOTAL_BLOCKS	NUMBER	The total number of blocks in the UNDO tablespace
FREE_BLOCKS	NUMBER	The number of free blocks in the UNDO tablespace
TOTAL_SIZE	NUMBER	The total size of the UNDO tablespace in bytes
FREE_SIZE	NUMBER	The free size of the UNDO tablespace in bytes

4.2.175. V\$USGMT_TXENTRY

Displays undo segment transaction entry information.

- Columns

Column Name	Data Type	Description
USN	NUMBER	Undo segment number
SLOT	NUMBER	Slot number of transaction entry
WRAP	NUMBER	The number of times of reusing a transaction slot
STATUS	VARCHAR(32)	Status information
FLAGS	VARCHAR(32)	Other information of transaction entry
UEA_FILE	NUMBER	Number of a file containing undo which a transaction used most recently
UEA_BLOCK	NUMBER	Number of a block containing undo which a transaction used most recently
UEA_DBA	NUMBER	Starting DBA of a transaction
UBLKCNT	NUMBER	Used undo block count

4.2.176. V\$VERSION

Displays RDBMS version information.

- Columns

Column Name	Data Type	Description
NAME	VARCHAR(32)	Name of the version information
VALUE	VARCHAR(32)	Value of the version information
VALUE	VARHCAR(256)	Banner of the version information

4.2.177. V\$WAITER_SESSION

Displays information on the sessions that wait for a lock acquisition

- Columns

Column Name	Data Type	Description
WAIT_SID	NUMBER	Session ID that waits for a lock acquisition
TYPE	VARCHAR(25)	Type of the lock
ID1	NUMBER	First ID of the lock
ID2	NUMBER	Second ID of the lock
MODE_REQ	NUMBER	Lock mode by which is requested
HOLD_SID	NUMBER	Session ID that owns the requested lock
MODE_HELD	NUMBER	Lock mode by which is owned

4.2.178. V\$WAITSTAT

Displays information on block wait events for each block type and class

- Columns

Column Name	Data Type	Description
CLASS	VARCHAR(20)	Block class (Block type)

Column Name	Data Type	Description
COUNT	NUMBER	The number of times waiting for the block class
TIME	NUMBER	Total time spent waiting for the block class

4.2.179. V\$WAITUSE_STAT

Displays information on block wait events

- Columns

Column Name	Data Type	Description
CLASS	VARCHAR(20)	Block class (Block type)
PIN_USE	VARCHAR(15)	The pin usage of the block pin owners
WAIT_USE	VARCHAR(15)	The pin usage of the block pin waiters
COUNT	NUMBER	The number of times waiting for the block class and pin usage
TIME	NUMBER	Total time spent waiting for the block class and pin usage

4.2.180. V\$WAITUSE_THR_STAT

Displays information on block wait events for each block type, class, and pin usage

- Columns

Column Name	Data Type	Description
CLASS	VARCHAR(20)	Block class (Block type)
PIN_USE	VARCHAR(15)	The pin usage of the buffer pin owners
WAIT_USE	VARCHAR(15)	The pin usage of the buffer pin waiters
COUNT	NUMBER	The number of times waiting for the block class and pin usage

Column Name	Data Type	Description
TIME	NUMBER	Total time spent waiting for the block class and pin us age

Appendix A. 초기화 파라미터의 설정 예제

본 장에서는 Tibero를 설치하고 나서 자동으로 설정되는 초기화 파라미터를 설명한다. 초기화 파라미터에 대한 자세한 내용은 “제1장 Introduction to Initialization Parameters”를 참고한다.

다음은 초기화 파라미터를 설정한 예이다.

참고

TOTAL_SHM_SIZE 및 MEMORY_TARGET 설정 시, Megabyte, Gigabyte 단위로 설정하는 경우 M, G 단위로 입력하며 byte의 경우 숫자만을 입력해준다.

<\$TB_SID.tip>

```
DB_NAME=$TB_SID
LISTENER_PORT=8629
CONTROL_FILES="$TB_HOME/database/tibero/c1.ctl"

MAX_SESSION_COUNT=20

TOTAL_SHM_SIZE=1G
MEMORY_TARGET=2G
```

다음은 위 예에서 설정한 각 파라미터에 대한 설명이다.

파라미터	설명
DB_NAME	데이터베이스 이름을 설정한다. (기본값: tibero)
LISTENER_PORT	리스너가 사용할 포트 번호를 설정한다. (기본값: 8629) SHMKEY와 더불어 한 서버에서 두 개 이상의 데이터베이스 인스턴스를 수행할 때에는 반드시 다르게 설정해 줘야 한다.
CONTROL_FILES	컨트롤 파일이 존재하는 위치로서 절대 경로로 설정한다.
MAX_SESSION_COUNT	사용자들이 접속해서 동시에 사용할 수 있는 세션의 최대 개수를 설정한다.
TOTAL_SHM_SIZE	데이터베이스의 인스턴스 내에서 사용할 전체 공유 메모리의 크기를 설정한다. 전체 공유 메모리의 크기는 DB_CACHE_SIZE + LOG_BUFFER + 20M(초기 기동 시 할당 영역)+ (WTHR_PROC_CNT * _WTHR_PER_PROC)* 1M를 계산한 값보다 좀 더 초과하여 설정하면 된다.

파라미터	설명
<code>MEMORY_TARGET</code>	데이터베이스의 인스턴스 내에서 사용할 전체 메모리의 크기를 설정한다. 이는 전체 공유 메모리와 프로세스 각각 사용할 메모리 전체를 합친 크기로 <code>TOTAL_SHM_SIZE</code> + (프로세스에서 사용할 메모리 전체)를 계산한 값으로 설정하면 된다.

참고

초기화 파라미터는 시스템의 사용 환경에 따라 사용하는 파라미터가 다를 수 있으며, 추가로 설정할 수 있다.

색인

A

ACF_CMPT_CNT, 2
ACF_NMGR_CM_AUTO_REVIVAL, 3
ACF_NMGR_PREVENT_REVIVAL_ON_IR, 3
ACT_LOG_DEST, 4
ACT_LOG_FILE_SIZE, 4
ACTIVE_SESSION_HISTORY, 3
ACTIVE_SESSION_TIMEOUT, 4
AD_AUTH_KBR_SERVICE_NAME, 5
AD_AUTH_KEYTAB_FILE, 5
AD_AUTH_PREFIX, 5
Adjustable
 initialization parameter, 2
ALL_ARGUMENTS, 183
ALL_CATALOG, 184
ALL_COL_COMMENTS, 185
ALL_COL_PRIVS, 186
ALL_COL_PRIVS_MADE, 187
ALL_COL_PRIVS_RECD, 187
ALL_COLL_TYPES, 185
ALL_CONS_COLUMNS, 190
ALL_CONS_COLUMNS_INFO, 190
ALL_CONSTRAINTS, 188
ALL_DB_LINKS, 191
all_dba_subpartition_templates, 402
ALL_DEPENDENCIES, 192
ALL_DIRECTORIES, 193
ALL_ENCRYPTED_COLUMNS, 193
ALL_ERRORS, 194
ALL_EXTERNAL_LOCATIONS, 195
ALL_EXTERNAL_TABLES, 195
ALL_IDX_AND_LOB_COLUMNS_INFO, 196
ALL_IDX_COLUMNS, 196
ALL_IDX_COLUMNS_INFO, 197
ALL_IDX_EXPRESSIONS, 198
all_idx_partitions, 402

ALL_IDX_SUBPARTITIONS, 199
ALL_IND_COLUMNS, 203
ALL_IND_EXPRESSIONS, 204
all_ind_partitions, 404
ALL_IND_SUBPARTITIONS, 204
ALL_INDEXES, 200
ALL_JAVA_ARGUMENTS, 206
ALL_JAVA_CLASSES, 206
ALL_JAVA_FIELDS, 207
ALL_JAVA_METHODS, 208
ALL_JOBS, 209
ALL_JOBS_WITH_NAME, 210
ALL_LIBRARIES, 211
ALL_LOB_PARTITIONS, 213
ALL_LOB_SUBPARTITIONS, 215
ALL_LOBS, 212
ALL_LOG_GROUP_COLUMNS, 217
ALL_LOG_GROUPS, 216
ALL_LOGFILE_MEMBERS_SANITY_CHECK, 6
ALL_METHOD_PARAMS, 218
ALL_METHOD_RESULTS, 218
ALL_MVIEW_COMMENTS, 222
ALL_MVIEW_DETAIL_RELATIONS, 222
ALL_MVIEW_LOGS, 223
ALL_MVIEW_REFRESH_TIMES, 224
ALL_MVIEWS, 219
ALL_OBJECTS, 224
ALL_PACKAGE_COLL_TYPES, 226
ALL_PACKAGE_MEMBER_TYPES, 227
ALL_PACKAGE_TYPES, 228
ALL_PART_INDEXES, 229
ALL_PART_KEY_COLUMNS, 230
ALL_PART_LOBS, 231
ALL_PART_TABLES, 232
ALL_PROCEDURES, 233
ALL_QUEUE_SUBSCRIBERS, 235
ALL_QUEUE_TABLES, 236
ALL_QUEUES, 234
ALL_RECYCLEBIN, 237
ALL_SCHEDULER_CHAINS, 238
ALL_SCHEDULER_JOB_LOG, 242
ALL_SCHEDULER_JOB_RUN_DETAILS, 243
ALL_SCHEDULER_JOBS, 239

ALL_SCHEDULER_PROGRAMS, 244
 ALL_SCHEDULER_RULE_CTX, 246
 ALL_SCHEDULER_RULES, 245
 ALL_SCHEDULER_RUNNING_JOBS, 246
 ALL_SCHEDULER_SCHEDULES, 249
 ALL_SCHEDULER_STEP_CTX, 251
 ALL_SCHEDULER_STEPS, 250
 ALL_SEGMENTS, 252
 ALL_SEQUENCES, 253
 ALL_SOURCE, 254
 ALL_SUBPART_KEY_COLUMNS, 255
 ALL_SYNONYMS, 256
 ALL_TAB_COL_STATISTICS, 262
 ALL_TAB_COLS, 259
 ALL_TAB_COLUMNS, 261
 ALL_TAB_COMMENTS, 263
 ALL_TAB_HISTOGRAMS, 264
 ALL_TAB_IDENTITY_COLS, 264
 ALL_TAB_PARTITIONS, 265
 ALL_TAB_PRIVS, 267
 ALL_TAB_PRIVS_MADE, 268
 ALL_TAB_PRIVS_RECD, 268
 ALL_TAB_SUBPARTITIONS, 269
 ALL_TABLES, 256
 ALL_TBL_COL_STATISTICS, 275
 ALL_TBL_COLS, 271
 ALL_TBL_COLUMNS, 272
 ALL_TBL_COLUMNS_WITH_DNO, 274
 ALL_TBL_COMMENTS, 276
 ALL_TBL_HISTOGRAMS, 277
 ALL_TBL_PARTITIONS, 277
 ALL_TBL_PRIVS, 279
 ALL_TBL_PRIVS_MADE, 280
 ALL_TBL_PRIVS_RECD, 281
 ALL_TBL_SUBPARTITIONS, 282
 ALL_TRIGGER_COLS, 284
 ALL_TRIGGERS, 283
 ALL_TYPE_ATTRS, 286
 ALL_TYPE_METHODS, 287
 ALL_TYPES, 285
 ALL_UPDATABLE_COLUMNS, 288
 ALL_USERS, 288
 ALL_VIEWS, 289

ALL_VIEWS_INTERNAL, 289
 archive file, 1
 AS_ADDR, 6
 AS_ALLOW_ONLY_RAW_DISKS, 6
 AS_DISK_AFFINITY_GROUP, 7
 AS_DISK_REPAIR_WAIT_TIME, 7
 AS_DISKSTRING, 7
 AS_FINE_STRIPE_SIZE, 8
 AS_PORT, 8
 AS_SCAN_SSVR_DISK, 8
 AS_USE_DISK_AFFINITY, 9
 AS_USE_USER_FUNCTION, 9
 AS_WTHR_CNT, 9
 AUDIT_FILE_DEST, 10
 AUDIT_FILE_SIZE, 10
 AUDIT_LOG_TOTAL_SIZE_LIMIT, 10
 AUDIT_SYS_OPERATIONS, 11
 AUDIT_TRAIL, 11
 AUTHENTICATION_TIMEOUT, 11
 AUTO_COALESCE, 12
 AUTO_COALESCE_INTERVAL, 12

B

BATCH_INSERT_ROW_CNT_THRESHOLD, 13
 BATCHUPDATE_MODE, 12
 BIND_VARIABLE_CAPTURE, 13
 BIND_VARIABLE_CAPTURE_ALLOC_COUNT, 13
 BIND_VARIABLE_CAPTURE_INTERVAL, 14
 BIND_VARIABLE_CAPTURE_KEEP_FIRST, 14
 BIND_VARIABLE_CAPTURE_MAX_COUNT, 14
 BIND_VARIABLE_CAPTURE_MAX_VAR_COUNT, 15
 BIND_VARIABLE_CAPTURE_POOL_PCTDEL, 15
 BIND_VARIABLE_CAPTURE_POOL_SIZE, 15
 BLOCK_CHANGE_TRACKING, 16
 BOOT_WITH_AUTO_DOWN_CLEAN, 16
 BTIP_FILE_PATH, 16

C

CALLSTACK_DUMP_DEST, 17
 CC_CU_BLKCNT, 19
 CC_CU_PCTUSE, 19
 CC_CU_WRITEOUT_THRESHOLD, 19

CC_EXPECTED_RATE, 20
 CC_TYPICAL_ROW_SIZE, 20
 CCC_CATH_CNT, 17
 CCC_MASTERING_UNIT, 18
 CCC_RECL_MAX_RESOURCES, 18
 CCC_RSBTBL_SIZE, 18
 CERTIFICATE_FILE, 20
 CLOSE_REMOTE_SESSION_ON_SESSION_RESET, 21
 CLUSTER_DATABASE, 21
 CM_AUTO_RECONNECT_NODE_WITH_ACTIVE_FHB, 22
 CM_AUTO_RECONNECT_TIMEOUT, 22
 CM_AUTO_REVIVAL, 23
 CM_CLUSTER_AUTO_RESTART, 23
 CM_DOWN_ON_TIME_DISACCORDANCE, 23
 CM_ENABLE_FAST_ACT_LOOP, 24
 CM_ENABLE_FAST_MASTER_ELECTION, 24
 CM_ENABLE_FAST_NET_ERROR_DETECTION, 24
 CM_FENCE, 25
 CM_FILE_AUTO_RESTART_SSVR, 25
 CM_FORCE_INSTANCE_KILL, 25
 CM_GUARD_LOG_DEST, 26
 CM_HEARTBEAT_EXPIRE, 26
 CM_LOCAL_IP_VERSION, 26
 CM_LOG_DEST, 27
 CM_LOG_FILE_SIZE, 27
 CM_LOG_TOTAL_SIZE_LIMIT, 27
 CM_LOOP_TIMEOUT, 28
 CM_MODE_OBSERVER, 28
 CM_MST_SAFEGUARD_EXPIRE, 28
 CM_NAME, 29
 CM_NET_EXPIRE_MARGIN, 30
 CM_NETWORK_AUTO_RESTART, 29
 CM_OBSERVER_EXPIRE, 30
 CM_OBSERVER_PORT, 30
 CM_PORT, 31
 CM_REGARD_NETHB_AS_SERIOUS, 31
 CM_RESOURCE_FILE, 31
 CM_RESOURCE_FILE_BACKUP, 32
 CM_RESOURCE_FILE_BACKUP_INTERVAL, 32
 CM_REVIVAL_WAIT_INST_TIMEOUT, 32
 CM_REVIVAL_WAIT_NODE_TIMEOUT, 33
 CM_REVIVAL_WAIT_TIMEOUT, 33
 CM_SVC_AUTO_START_ON_BOOT, 33
 CM_TAS_VM_ADDR, 34
 CM_TAS_VM_PORT, 34
 CM_TIME_UNIT, 34
 CM_UI_PORT, 35
 CM_USE_ASENV, 35
 CM_USE_AWS_EC2, 35
 CM_USE_TAS5_STORAGE, 36
 CM_VIP_FAILOVER_BASED_ON_SVC_STATUS, 36
 CM_VIP_RESTART_COUNT, 36
 CM_VIP_STAT_CHECK_INTERVAL, 37
 CM_WATCHDOG_EXPIRE, 37
 CMPT_CNT_FOR_RECONFIGURATION, 21
 COMMIT_FLUSH_REQUEST, 37
 COMMIT_FLUSH_WAIT, 38
 COMMIT_POINT_STRENGTH, 38
 control file, 1
 CONTROL_FILES, 38
 CPU_COUNT, 39
 CREATE_STORED_OUTLINES, 39
 CTHR_CHECK_CONNECTION_INTERVAL, 39
 CTX_PREFERENCE_VALUES, 290
 CTX_PREFERENCES, 290
 CURSOR_SHARING, 40
 CWS_DDD_TIMEOUT_ON_SLOG, 40
 CWS_RECL_MAX_RESOURCES, 40
 CWS_RESOLVE_CVT_DEADLK_FORCE, 41
 CWS_RSBTBL_SIZE, 41

D

DATABASE_PROPERTIES, 290
 DB_BLOCK_SIZE, 44
 DB_CACHE_SIZE, 45
 DB_CREATE_FILE_DEST, 45
 DB_FILE_MULTIBLOCK_READ_COUNT, 46
 DB_KEEP_CACHE_SIZE, 46
 DB_MULTIBLOCK_PREFETCH_COUNT, 46
 DB_NAME, 47
 DB_RECYCLE_CACHE_SIZE, 47
 DB_UNIQUE_NAME, 47
 DBA_2PC_NEIGHBORS, 291

DBA_2PC_PENDING, 292	DBA_IDX_EXPRESSIONS, 315
DBA_AUDIT_POLICIES, 292	dba_idx_partitions, 406
DBA_AUDIT_TRAIL, 293	DBA_IDX_SUBPARTITIONS, 316
DBA_CATALOG, 294	DBA_IND_COLUMNS, 316
DBA_COL_COMMENTS, 295	DBA_IND_EXPRESSIONS, 317
DBA_COL_PRIVS, 295	dba_ind_partitions, 408
DBA_COLL_TYPES, 294	DBA_IND_SUBPARTITIONS, 318
DBA_CONS_COLUMNS, 295	DBA_INDEXES, 316
DBA_CONSTRAINTS, 295	DBA_JAVA_ARGUMENTS, 319
DBA_DATA_FILES, 296	DBA_JAVA_CLASSES, 319
DBA_DATAFILES, 296	DBA_JAVA_FIELDS, 319
DBA_DB_LINKS, 297	DBA_JAVA_METHODS, 320
DBA_DDL_LOCKS, 298	DBA_JOBS, 320
DBA_DEPENDENCIES, 298	DBA_JOBS_WITH_NAME, 320
DBA_DIRECTORIES, 298	DBA_LIBRARIES, 320
DBA_DML_LOCKS, 299	DBA_LOB_PARTITIONS, 321
DBA_ENCRYPTED_COLUMNS, 300	DBA_LOB_SUBPARTITIONS, 321
DBA_ERRORS, 300	DBA_LOBS, 321
DBA_EXTENTS, 300	DBA_LOG_GROUP_COLUMNS, 321
DBA_EXTERNAL_LOCATIONS, 301	DBA_LOG_GROUPS, 321
DBA_EXTERNAL_TABLES, 301	DBA_METHOD_PARAMS, 322
DBA_FGA_AUDIT_TRAIL, 301	DBA_METHOD_RESULTS, 322
DBA_FREE_SPACE, 301	DBA_MVIEW_COMMENTS, 322
DBA_HIST_ACTIVE_SESS_HISTORY, 302	DBA_MVIEW_DETAIL_RELATIONS, 323
DBA_HIST_FILESTAT, 304	DBA_MVIEW_LOGS, 323
DBA_HIST_LATCH, 305	DBA_MVIEW_REFRESH_TIMES, 323
DBA_HIST_LIBRARYCACHE, 305	DBA_MVIEWS, 322
DBA_HIST_OSSTAT, 306	DBA_OBJ_AUDIT_OPTS, 324
DBA_HIST_PGASTAT, 306	DBA_OBJECTS, 323
DBA_HIST_PROCESS_MEM_SUMMARY, 307	DBA_PACKAGE_COLL_TYPES, 325
DBA_HIST_SEG_STAT, 307	DBA_PACKAGE_MEMBER_TYPES, 325
DBA_HIST_SGASTAT, 308	DBA_PACKAGE_TYPES, 325
DBA_HIST_SNAPSHOT, 308	DBA_PART_INDEXES, 325
DBA_HIST_SQL_PLAN, 310	DBA_PART_KEY_COLUMNS, 326
DBA_HIST_SQL_WORKAREA_HSTGRM, 312	DBA_PART_LOBS, 326
DBA_HIST_SQLBIND, 308	DBA_PART_TABLES, 326
DBA_HIST_SQLSTAT, 309	DBA_PRIV_AUDIT_OPTS, 326
DBA_HIST_SQLTEXT, 310	DBA_PROCEDURES, 327
DBA_HIST_SYSMETRIC_SUMMARY, 313	DBA_PROFILES, 327
DBA_HIST_SYSTEM_EVENT, 313	DBA_QUEUE_SUBSCRIBERS, 328
DBA_HIST_UNDOSTAT, 314	DBA_QUEUE_TABLES, 328
DBA_HIST_WAITSTAT, 315	DBA_QUEUES, 327
DBA_IDX_COLUMNS, 315	DBA_RECYCLEBIN, 328

DBA_REDEFINITION_OBJECTS, 329
 DBA_ROLE_PRIVS, 330
 DBA_ROLES, 329
 DBA_ROLLBACK_SEGS, 330
 DBA_SCHEDULER_CHAINS, 331
 DBA_SCHEDULER_JOB_LOG, 332
 DBA_SCHEDULER_JOB_RUN_DETAILS, 332
 DBA_SCHEDULER_JOBS, 331
 DBA_SCHEDULER_PROGRAMS, 332
 DBA_SCHEDULER_RULE_CTX, 332
 DBA_SCHEDULER_RULES, 332
 DBA_SCHEDULER_RUNNING_JOBS, 333
 DBA_SCHEDULER_SCHEDULES, 333
 DBA_SCHEDULER_STEP_CTX, 333
 DBA_SCHEDULER_STEPS, 333
 DBA_SEGMENTS, 334
 DBA_SEQUENCES, 335
 DBA_SOURCE, 335
 DBA_SQL_PLAN_BASELINES, 336
 DBA_SQL_PROFILES, 337
 DBA_SUBPART_KEY_COLUMNS, 338
 dba_subpartition_templates, 410
 DBA_SYNONYMS, 338
 DBA_SYS_PRIVS, 339
 DBA_TAB_COL_STATISTICS, 344
 DBA_TAB_COLS, 341
 DBA_TAB_COLUMNS, 342
 DBA_TAB_COMMENTS, 345
 DBA_TAB_HISTOGRAMS, 345
 DBA_TAB_IDENTITY_COLS, 346
 DBA_TAB_PARTITIONS, 346
 DBA_TAB_PRIVS, 348
 DBA_TAB_SUBPARTITIONS, 349
 DBA_TABLES, 339
 DBA_TABLESPACES, 339
 DBA_TBL_COL_STATISTICS, 351
 DBA_TBL_COLS, 350
 DBA_TBL_COLUMNS, 351
 DBA_TBL_COMMENTS, 351
 DBA_TBL_HISTOGRAMS, 352
 DBA_TBL_PARTITIONS, 352
 DBA_TBL_PRIVS, 352
 DBA_TBL_SUBPARTITIONS, 353

DBA_TEMP_FILES, 354
 DBA_TEMPFILES, 353
 DBA_TRIGGER_COLS, 355
 DBA_TRIGGERS, 355
 DBA_TS_QUOTAS, 355
 DBA_TYPE_ATTRS, 356
 DBA_TYPE_METHODS, 356
 DBA_TYPES, 356
 DBA_UNDO_EXTENTS, 356
 DBA_UNDO_SGMTS, 357
 DBA_UPDATABLE_COLUMNS, 358
 DBA_USERS, 358
 DBA_VIEWS, 359
 DBLINK_BATCH_UPDATE_ROW_COUNT, 41
 DBLINK_CONN_TIMEOUT, 42
 DBLINK_CONN_VALIDATION_SKIP_INTERVAL, 42
 DBLINK_QUERY_TIMEOUT, 42
 DBMS_LOG_DEST, 43
 DBMS_LOG_FILE_SIZE, 43
 DBMS_LOG_TOTAL_SIZE_LIMIT, 43
 DBMSHSXP_SQL_PROFILE_ATTR, 360
 DBWR_CNT, 44
 DBWR_USE_AIO, 44
 DD_CACHE_MAX, 48
 DDL, 164
 DEFAULT_SEQ_CACHE_SIZE, 48
 DF_HDRBLK_START_OFFSET, 48
 DICTIONARY, 360
 DIRTY_BLOCK_WRITE_ISSUE_TIME, 49
 DISK_PATH, 49
 DONT_USE_FILE_BUFFERING, 49
 DPL_INDEX_METHOD, 50
 DUMP_EXSTAT_ON_STMT_CANCEL, 50
 Dynamic
 initialization parameter, 2
 dynamic view, 415

E

ENCRYPT_GLOBAL_KEY_FILE, 51
 ENCRYPTION_WALLET_FILE, 51
 EX_MEMORY_AUTO_MANAGEMENT, 52
 EX_MEMORY_COMPENSATE_INTERVAL, 52

EX_MEMORY_DRIFT_CHECK_INTERVAL, 53
EX_MEMORY_DRIFT_RATIO, 53
EXTRA_LISTENER_PORTS, 51
EXTRA_LISTENER_PORTS_6, 52

F

FDPOOL_HASH_SIZE, 53
FLASHBACK_LOG_ARCHIVE_DEST, 54
FLASHBACK_LOG_ARCHIVE_FORMAT, 54
FLASHBACK_LOG_BUFFER, 54
FLASHBACK_MARKER_INTERVAL, 55

G

GATHER_SQL_EXEC_TIME, 55
GATHER_SQL_PLAN_STAT, 56

H

HASH_AREA_SIZE, 56
HBASE_CONNECTOR_SCAN_CACHE, 56
HSM_LIB_FILE, 57
HSM_TTE_KEY_BACKUP_FILE_PATH, 57

I

ILOG_DEST, 57
ILOG_FILE_BACKUP_ON_BOOT, 58
ILOG_FILE_SIZE, 58
ILOG_MAP, 58
ILOG_TOTAL_SIZE_LIMIT, 59
initialization parameter class attribute, 2
INSTANCE_NUMBER, 59
INSTANCE_TYPE, 59
IP_VERSION, 60

J

JAVA_CLASS_PATH, 60
JOB_HISTORY_LOG, 61
JOB_SCHEDULING_MAX_TIMEOUT, 61
JOB_TRACE_LOG, 61

K

KEEP_STAT_PER_SQL, 62

L

LIBRARY_CACHE_MAX, 62
LIBRARY_DD_CACHE_MAX, 62
list of dynamic views, 415
list of static views, 167
LISTENER_IP, 63
LISTENER_IP_6, 63
LISTENER_PORT, 63
LISTENER_PORT_6, 64
LOAD_METRIC_AUTO_INTERVAL, 64
LOAD_METRIC_COLLECT_INTERVAL_MAX, 64
LOAD_METRIC_COLLECT_INTERVAL_MIN, 65
LOAD_METRIC_HISTORY_COUNT, 65
LOCAL_CLUSTER_ADDR, 65
LOCAL_CLUSTER_ADDR_IPV6, 66
LOCAL_CLUSTER_IP_VERSION, 66
LOCAL_CLUSTER_PORT, 66
LOCAL_CLUSTER_PORT_IPV6, 67
LOG_ARCHIVE_DEST, 67
LOG_ARCHIVE_DEST_1, 67
LOG_ARCHIVE_DEST_2, 68
LOG_ARCHIVE_DEST_3, 68
LOG_ARCHIVE_DEST_4, 68
LOG_ARCHIVE_DEST_5, 69
LOG_ARCHIVE_DEST_6, 69
LOG_ARCHIVE_DEST_7, 69
LOG_ARCHIVE_DEST_8, 70
LOG_ARCHIVE_DEST_9, 70
LOG_ARCHIVE_FORMAT, 70
LOG_ARCHIVE_OVERWRITE, 71
LOG_ARCHIVE_RETRY_TIME, 71
LOG_BUFFER, 71
LOG_CHECKPOINT_INTERVAL, 72
LOG_CHECKPOINT_TIMEOUT, 72
LOG_DEFAULT_DEST, 72
LOG_FILE_WITH_GROUP_READ_PERM, 73
LOG_LVL_AS, 73
LOG_LVL_CM, 73
LOG_LVL_LIS, 74
LOG_ON_MEMORY, 74
LOG_ON_MEMORY_SIZE, 74
LOG_REPLICATION_1_ENABLE, 75

LOG_REPLICATION_2_ENABLE, 75
 LOG_REPLICATION_3_ENABLE, 75
 LOG_REPLICATION_4_ENABLE, 76
 LOG_REPLICATION_5_ENABLE, 76
 LOG_REPLICATION_6_ENABLE, 76
 LOG_REPLICATION_7_ENABLE, 77
 LOG_REPLICATION_8_ENABLE, 77
 LOG_REPLICATION_9_ENABLE, 77
 LOG_REPLICATION_DEST_1, 78
 LOG_REPLICATION_DEST_2, 78
 LOG_REPLICATION_DEST_3, 78
 LOG_REPLICATION_DEST_4, 79
 LOG_REPLICATION_DEST_5, 79
 LOG_REPLICATION_DEST_6, 79
 LOG_REPLICATION_DEST_7, 80
 LOG_REPLICATION_DEST_8, 80
 LOG_REPLICATION_DEST_9, 80
 LOG_REPLICATION_MODE, 81
 LONG_OPERATION_KEEP_COUNT, 82
 LONGOPS_KEEP_INTERVAL, 81
 LONGOPS_THRESHOLD_SEC, 81
 LSNR_DENIED_IP, 82
 LSNR_DENIED_IP_FILE, 82
 LSNR_INVITED_IP, 83
 LSNR_INVITED_IP_FILE, 83
 LSNR_LISTEN_BACKLOG, 84
 LSNR_LOG_DEST, 84
 LSNR_LOG_FILE_SIZE, 84
 LSNR_LOG_TOTAL_SIZE_LIMIT, 85
 LSNR_SCHEDULE_SAME_PROC_FIRST, 85

M

Mandatory

initialization parameter, 2
 MAX_BG_SESSION_COUNT, 85
 MAX_SESSION_COUNT, 86
 MEM_LOG_DEST, 88
 MEMORY_MAX_TARGET, 86
 MEMORY_MODEL, 87
 MEMORY_TABLESPACE_SIZE, 87
 MEMORY_TARGET, 87

N

NAMED_PIPE_DIR, 88
 NBU_ARCHIVE_POLICY_NAME, 89
 NBU_ARCHIVE_RETRY_CNT, 89
 NBU_ARCHIVELOG_SEARCH, 88
 NBU_BACKUP_INST_SID, 89
 NBU_BACKUP_POLICY_NAME, 90
 NBU_BSA_API_VERSION, 90
 NBU_CLIENT_COUNT, 90
 NBU_CLIENT_HOST_NAME, 94
 NBU_CLIENT_HOSTNAME_0, 91
 NBU_CLIENT_HOSTNAME_1, 91
 NBU_CLIENT_HOSTNAME_2, 91
 NBU_CLIENT_HOSTNAME_3, 92
 NBU_CLIENT_HOSTNAME_4, 92
 NBU_CLIENT_HOSTNAME_5, 92
 NBU_CLIENT_HOSTNAME_6, 93
 NBU_CLIENT_HOSTNAME_7, 93
 NBU_CLIENT_HOSTNAME_8, 93
 NBU_CLIENT_HOSTNAME_9, 94
 NBU_MASTER_HOST_NAME, 94
 NBU_OBJ_OWNER_GROUP_NAME, 95
 NBU_OBJ_OWNER_NAME, 95
 NBU_PROC_WTHR_CNT, 95
 NBU_SCHEDULE_NAME, 96
 NBU_SKIP_HOST_CHECK, 96
 NLS_CALENDAR, 96
 NLS_COMP, 97
 NLS_CURRENCY, 97
 NLS_DATABASE_PARAMETERS, 360
 NLS_DATE_FORMAT, 97
 NLS_DATE_LANGUAGE, 98
 NLS_DUAL_CURRENCY, 98
 NLS_ISO_CURRENCY, 98
 NLS_LANG_AT_BOOT, 99
 NLS_LANGUAGE, 99
 NLS_LENGTH_SEMANTICS, 99
 NLS_NUMERIC_CHARACTERS, 100
 NLS_SESSION_PARAMETERS, 360
 NLS_SORT, 100
 NLS_TERRITORY, 101
 NLS_TIME_FORMAT, 102

NLS_TIME_TZ_FORMAT, 102
NLS_TIMESTAMP_FORMAT, 101
NLS_TIMESTAMP_TZ_FORMAT, 101
NTF_LISTEN_PORT, 102

O

OMIT_PSM_SQL_LOG_ON_MEMORY, 103
OPEN_CURSORS, 103
OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES, 103
OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES_DUR
RATION, 104
OPTIMIZER_LOG_OUTLINE, 104
OPTIMIZER_MODE, 104
OPTIMIZER_TRACE, 105
OPTIMIZER_USE_INVISIBLE_INDEXES, 105
OPTIMIZER_USE_SQL_PLAN_BASELINES, 105
OPTIMIZER_USE_SQL_PROFILES, 106
Optional
 initialization parameter, 2
OS_AUTH_PREFIX, 106

P

PARALLEL_DEFAULT_DOP, 106
PARALLEL_GRANULE_SIZE, 107
PARALLEL_THREADS_PER_CPU, 107
PEP_PROC_CNT, 107
Persistent
 initialization parameter, 2
PP_SAVE_SYS_BINDVAR, 108
PRIVKEY_FILE, 108
PSM_CODE_TYPE, 108
PSM_DEBUG, 109
PSM_ERROR_CONV, 109
PSM_SHLIB_DIR, 109
PSM_SQL_RESULT_CACHE, 110
PUBLICSYN, 361

Q

QUERY_REWRITE_ENABLED, 110
QUERY_REWRITE_INTEGRITY, 110

R

RECO_PROC_WTHR_CNT, 111
RESULT_CACHE_MAX_RATIO, 111
RESULT_CACHE_MAX_SIZE, 111
RESULT_CACHE_MODE, 112
RESUMABLE_SPACE_ALLOC, 112
RESUMABLE_SPACE_ALLOC_TIMEOUT, 113
RMGR_BACKUP_DEST, 113
RMGR_CATALOG_SID, 113
RMGR_NBU_BACKUP_DEST, 114
RMGR_PRIMARY_SID, 114
RMGR_RESTORE_BACKUP_CF, 114
RMGR_TAR_PATH, 115
ROLE_ROLE_PRIVS, 361
ROLE_SYS_PRIVS, 362
ROLE_TAB_PRIVS, 362
RSBTBL_BUCKET_CNT_PER_ROOT_LIST_FOR_RE
CONFIGURATION, 115
RSRC_CHECK_INTERVAL, 115
RSRC_CONTROL_THRESHOLD, 116
RT_AWAKE_WAITER_INTERVAL, 116
RT_UPDATE_ALLOWABLE_INFLOW_CNT_INTER
VAL, 116

S

SANITY_CHECK_DURING_LOG_SWITCH, 117
SEGMENT_EXTEND_LAST, 117
SEM_KEY, 117
SEM_SET_COUNT, 118
SEPARATION_OF_DUTIES, 118
SERVER_LOAD_TOLERANCE, 118
SERVER_SIDE_LOAD_BALANCE, 119
SERVICE_CONTROL_STOP_DOWNMODE, 119
Session
 initialization parameter, 2
SESSION_CONTEXT, 363
SESSION_PRIVS, 363
SESSION_ROLES, 363
SHARED_PARAMETER_FILE, 120
SHM_KEY, 120
SHP_ALLOC_DUMP_IDX, 120
SHP_ALLOC_FULL_DUMP, 121

SLAB_BLOCK_RESERVED_COUNT, 121
 SLOG_DEST, 121
 SLOG_DISPLAY_YEAR, 122
 SLOG_FILE_SIZE, 122
 SLOG_HISTORY, 122
 SLOG_HISTORY_BUFSIZE, 123
 SLOG_HISTORY_QSIZE, 123
 SLOG_TOTAL_SIZE_LIMIT, 123
 SLOG_VIEW_SIZE, 124
 SORT_AREA_SIZE, 124
 SPIN_PARAMETER_AUTO_ADJUST, 124
 SPIN_PARAMETER_PER_TYPE, 125
 SQL 파서, 162
 SQL_LOG_ON_MEMORY, 125
 SQL_LOG_ON_MEMORY_SIZE, 126
 SQL_STAT_HISTORY, 126
 SQL_STAT_HISTORY_QSIZE, 126
 SQL_STAT_HISTORY_THRESHOLD, 127
 SQL_TRACE, 127
 SQL_TRACE_DEST, 128
 SQL_TRACE_LEVEL, 128
 SQL_TRANSLATION_PROFILE, 128
 SQLTUNE_CATEGORY, 125
 SSVR_FC_DIRTY_BIN_RATIO_MAX, 129
 SSVR_FC_FREE_BIN_RATIO, 129
 SSVR_FC_WS_CNT, 129
 SSVR_RECV_PORT_START, 130
 SSVR_TPM_SENDER_INTERVAL, 130
 SSVR_USE_AGNT, 130
 SSVR_USE_FC, 131
 SSVR_USE_IB, 131
 SSVR_USE_SDM, 131
 SSVR_USE_TCP, 132
 SSVR_USE_TPM, 132
 SSVR_WTHR_CNT, 132
 STANDBY_ENABLE_CASCADE, 133
 STANDBY_ENABLE_LOG_RECOVERY, 133
 STANDBY_ENABLE_TAC_MULTINODE, 133
 STANDBY_FILE_NAME_CONVERT, 134
 STANDBY_FLUSH_WAIT, 134
 STANDBY_LOG_ARCHIVE_DEST, 134
 STANDBY_LOG_ARCHIVE_FORMAT, 135
 STANDBY_USE_OBSERVER, 135

STAR_TRANSFORMATION_ENABLED, 135
 Static
 initialization parameter, 2
 static view, 167
 STORAGE_PROCESSING, 136
 SUMMARY_FIRST_IN_GROUPBY_CUBE, 136
 SYS 사용자, 160
 SYS_OBJECTS, 363
 System
 initialization parameter, 2

T

TABLE_GLOBAL_COMPRESSION, 136
 TAS_DB_UUID, 137
 TAS_OPEN_FILE_MAX, 137
 TAS_SERVER_IP, 138
 TAS_VM_ADDR, 138
 TAS_VM_PORT, 138
 TAS5_STORAGE_MODE, 137
 TCP_RCVBUF_SIZE, 138
 TCP_SNDBUF_SIZE, 139
 TDE_HASH_VERIFICATION, 139
 TDE_SELF_UPDATE_MODIFICATION_DEFENCE, 139
 TEMP_GRANULE_SIZE, 140
 TEMP_TS_CNT_MAX, 140
 THREAD, 140
 THROW_WHEN_GETTING_OSSTAT_FAIL, 141
 TIBERO_PERFORMANCE_REPOSITORY, 141
 TOTAL_SHM_MAX_SIZE, 141
 TOTAL_SHM_SIZE, 142
 TPR_AGGREGATION, 142
 TPR_METRIC, 142
 TPR_SEGMENT_STATISTICS, 143
 TPR_SNAPSHOT_RETENTION, 143
 TPR_SNAPSHOT_SAMPLING_INTERVAL, 143
 TPR_SNAPSHOT_TOP_SEGMENT_CNT, 144
 TPR_SNAPSHOT_TOP_SQL_CNT, 144
 TPR_SQL_PLAN_STAT, 144
 trace file, 1
 TRACE_DUMP_DEST, 145
 TRACE_LOG_DEST, 145

TRACE_LOG_FILE_SIZE, 146
TRACE_LOG_TOTAL_SIZE_LIMIT, 146
TSAM_PREFETCH_SIZE, 146
TSN_SYNC_UDP_PORT, 147
TX_FORCE_COMMIT_DUMP, 147

U

UNDO_RETENTION, 147
UNDO_TABLESPACE, 148
USE_ACCURATE_NUMERIC_FUNC, 148
USE_ACTIVE_STORAGE, 148
USE_AD_AUTH, 149
USE_BINARY_UPDATE, 149
USE_HUGE_PAGE, 149
USE_ILOG, 150
USE_NBU_FOR_ARCHIVELOG, 150
USE_NBU_FOR_BACKUPSET, 150
USE_NET_KEEPLIVE, 151
USE_PROFILE, 151
USE_PROFILE_LOGIN_LOGOUT_TIME, 151
USE_RECYCLEBIN, 152
USE_RESOURCE_MANAGER, 152
USE_STANDBY_REDO_LOG, 152
USE_STORED_OUTLINES, 153
USE_TRUNCATE_PRIVILEGE, 153
USE_TS_QUOTA, 153
USER_ARGUMENTS, 364
USER_AUDIT_TRAIL, 364
USER_CATALOG, 365
USER_COL_COMMENTS, 366
USER_COL_PRIVS, 366
USER_COL_PRIVS_MADE, 366
USER_COL_PRIVS_RECD, 366
USER_COLL_TYPES, 365
USER_CONS_COLUMNS, 367
USER_CONSTRAINTS, 366
USER_DB_LINKS, 367
USER_DEPENDENCIES, 367
USER_ENCRYPTED_COLUMNS, 367
USER_ERRORS, 368
USER_EXTENTS, 368
USER_EXTERNAL_LOCATIONS, 369

USER_EXTERNAL_TABLES, 369
USER_FREE_SPACE, 369
USER_IDX_COLUMNS, 370
USER_IDX_EXPRESSIONS, 370
user_idx_partitions, 410
USER_IND_COLUMNS, 370
USER_IND_EXPRESSIONS, 371
user_ind_partitions, 412
USER_INDEXES, 370
USER_JAVA_ARGUMENTS, 372
USER_JAVA_CLASSES, 372
USER_JAVA_FIELDS, 372
USER_JAVA_METHODS, 373
USER_JOBS, 373
USER_JOBS_WITH_NAME, 373
USER_LIBRARIES, 373
USER_LOB_PARTITIONS, 374
USER_LOB_SUBPARTITIONS, 374
USER_LOBS, 374
USER_LOG_GROUP_COLUMNS, 374
USER_LOG_GROUPS, 374
USER_METHOD_PARAMS, 375
USER_METHOD_RESULTS, 375
USER_MVIEW_COMMENTS, 375
USER_MVIEW_LOGS, 376
USER_MVIEW_REFRESH_TIMES, 376
USER_MVIEWS, 375
USER_OBJ_AUDIT_OPTS, 376
USER_OBJECTS, 376
USER_PACKAGE_COLL_TYPES, 377
USER_PACKAGE_MEMBER_TYPES, 378
USER_PACKAGE_TYPES, 378
USER_PART_INDEXES, 378
USER_PART_KEY_COLUMNS, 378
USER_PART_LOBS, 379
USER_PART_TABLES, 379
USER_PROCEDURES, 379
USER_QUEUE_SUBSCRIBERS, 379
USER_QUEUE_TABLES, 380
USER_QUEUES, 379
USER_RECYCLEBIN, 380
USER_ROLE_PRIVS, 380
USER_SCHEDULER_CHAINS, 381

USER_SCHEDULER_JOB_LOG, 381
 USER_SCHEDULER_JOB_RUN_DETAILS, 382
 USER_SCHEDULER_JOBS, 381
 USER_SCHEDULER_PROGRAMS, 382
 USER_SCHEDULER_RULE_CTX, 382
 USER_SCHEDULER_RULES, 382
 USER_SCHEDULER_RUNNING_JOBS, 382
 USER_SCHEDULER_SCHEDULES, 383
 USER_SCHEDULER_STEP_CTX, 383
 USER_SCHEDULER_STEPS, 383
 USER_SEGMENTS, 383
 USER_SEQUENCES, 384
 USER_SOURCE, 384
 USER_SUBPART_KEY_COLUMNS, 384
 USER_SYNONYMS, 384
 USER_SYS_PRIVS, 384
 USER_TAB_COL_STATISTICS, 390
 USER_TAB_COLS, 387
 USER_TAB_COLUMNS, 388
 USER_TAB_COMMENTS, 391
 USER_TAB_HISTOGRAMS, 391
 USER_TAB_IDENTITY_COLS, 392
 USER_TAB_PARTITIONS, 392
 USER_TAB_PRIVS, 394
 USER_TAB_PRIVS_MADE, 394
 USER_TAB_PRIVS_RECD, 395
 USER_TABLES, 385
 USER_TABLESPACES, 385
 USER_TBL_COL_STATISTICS, 397
 USER_TBL_COLS, 396
 USER_TBL_COLUMNS, 396
 USER_TBL_COMMENTS, 397
 USER_TBL_HISTOGRAMS, 397
 USER_TBL_PARTITIONS, 398
 USER_TBL_PRIVS, 398
 USER_TBL_PRIVS_MADE, 398
 USER_TBL_PRIVS_RECD, 399
 USER_TRIGGER_COLS, 399
 USER_TRIGGERS, 399
 USER_TYPE_ATTRS, 400
 USER_TYPE_METHODS, 400
 USER_TYPES, 400
 USER_UPDATABLE_COLUMNS, 400

USER_USERS, 401
 USER_VIEWS, 401
 USGMT_AUTO_SHRINK_INTERVAL, 154
 USGMT_ONLINE_MAX, 154
 USGMT_ONLINE_MIN, 154
 UTL_FILE_DIR, 155

V

V\$ACCESS, 422
 V\$ACTIVE_SESSION_HISTORY, 422
 V\$ALL_FILESTAT, 424
 V\$ARCHIVE_DEST_FILES, 426
 V\$ARCHIVED_LOG, 425
 V\$AS_ALIAS, 427
 V\$AS_DISK, 427
 V\$AS_DISK_HISTORY, 429
 V\$AS_DISKSPACE, 428
 V\$AS_EXTENT_MAP, 429
 V\$AS_FILE, 430
 V\$AS_OPERATION, 431
 V\$AS_USER, 431
 V\$AS_USERGROUP, 432
 V\$AS_USERGROUP_MEMBER, 432
 V\$AUTO_COALESCE, 433
 V\$BACKUP, 433
 V\$BACKUP_ARCHIVED_LOG, 434
 V\$BACKUP_LIST, 434
 V\$BACKUP_LIST_ARCHIVELOG, 435
 V\$BACKUP_LIST_CONTROLFILE, 435
 V\$BACKUP_LIST_DATAFILE, 435
 V\$BACKUP_SET, 436
 V\$BACKUP_SET_TABLESPACE, 437
 V\$BG_SESSION, 437
 V\$BG_SESSTAT, 438
 V\$BH, 439
 V\$BLOCKER_SESSION, 440
 V\$BPARAMETERS, 440
 V\$BUFFER_CACHE_ADVICE, 440
 V\$BUFFER_POOL, 441
 V\$BUFFER_POOL_STATISTICS, 441
 V\$CHECKPOINT, 442
 V\$CLUSTER_INTERCONNECTS, 443

V\$CONTEXT, 443
V\$CONTROLFILE, 444
V\$CORRUPT_XID, 444
V\$DATABASE, 444
V\$DATAFILE, 445
V\$DATAFILE_HEADER, 446
V\$DB_PIPES, 449
V\$DBFILE, 447
V\$DBLINK, 448
V\$DBLINK_STATUS, 448
V\$ENCRYPTED_TABLESPACES, 449
V\$ENCRYPTION_WALLET, 449
V\$ENQUEUE_STAT, 450
V\$EST_CHECKPOINT_TIME, 450
V\$EVENT_NAME, 450
V\$FILESTAT, 451
V\$FLASHBACK_ARCHIVED_LOG, 452
V\$FLASHBACK_LOG, 453
V\$FLASHBACK_MARKER, 453
V\$GLOBAL_TRANSACTION, 454
V\$INSTANCE, 454
V\$INSTANCEMETRIC, 455
V\$INSTANCEMETRIC_HISTORY, 456
V\$INTERCONNECT_LATENCY, 457
V\$INTERCONNECTION, 456
V\$IPARAM_DESC, 457
V\$LATCH, 458
V\$LIBRARYCACHE, 458
V\$LICENSE, 459
V\$LOCK, 460
V\$LOCKED_OBJECT, 461
V\$LOG, 462
V\$LOG_HISTORY, 463
V\$LOGFILE, 462
V\$MEDIA_RECOVERY_PROGRESS, 463
V\$MEMORY_TABLESPACE, 464
V\$METRIC, 465
V\$METRICNAME, 466
V\$MYSTAT, 466
V\$OBJECT_USAGE, 466
V\$OPEN_CURSOR, 467
V\$OSSTAT, 468
V\$OSSTAT2, 468

V\$OUTLINE, 468
V\$PARAMETERS, 469
V\$PATCH, 469
V\$PE_PESPLAN, 469
V\$PE_PESSTAT, 470
V\$PE_PROCESS, 470
V\$PE_SESSION, 471
V\$PE_SYSSTAT, 471
V\$PE_TQSTAT, 472
V\$PGASTAT, 472
V\$PROCESS, 474
V\$PROXY_SQL_PARAM, 475
V\$PROXY_SQLTEXT, 474
V\$RECOVER_FILE, 477
V\$RECOVERY_FILE_STATUS, 475
V\$RECOVERY_PROGRESS, 476
V\$RECOVERY_STATUS, 476
V\$RESERVED_WORDS, 477
V\$RESULT_CACHE_DEPENDENCY, 478
V\$RESULT_CACHE_OBJECT_STATISTICS, 479
V\$RESULT_CACHE_OBJECTS, 478
V\$RESULT_CACHE_STATISTICS, 480
V\$ROLLSTAT, 480
V\$ROWCACHE, 481
V\$RSBSTAT, 481
V\$RSRC_CONSUMER_GROUP, 482
V\$RSRC_PLAN, 483
V\$RSRC_SESSION_INFO, 483
V\$RUNNING_JOBS, 484
V\$RUNNING_JOBS_WITH_NAME, 484
V\$SEGMENT_STATISTICS, 485
V\$SESS_TIME_MODEL, 492
V\$SESSION, 485
V\$SESSION_EVENT, 489
V\$SESSION_IO, 489
V\$SESSION_LONGOPS, 490
V\$SESSION_WAIT, 491
V\$SESSTAT, 491
V\$SGA, 492
V\$SGASTAT, 493
V\$SHP_ADVICE, 494
V\$SLOG, 494
V\$SPINLOCK_HOLDER, 494

V\$SPINUSE_STAT, 495
 V\$SQL, 495
 V\$SQL_BIND_CAPTURE, 503
 V\$SQL_BIND_CAPTURE_ALL, 504
 V\$SQL_EXPC_INFO, 504
 V\$SQL_MONITOR, 505
 V\$SQL_PLAN, 508
 V\$SQL_PLAN_MONITOR, 509
 V\$SQL_PLAN_STATISTICS, 512
 V\$SQL_WORKAREA, 513
 V\$SQL_WORKAREA_HISTOGRAM, 515
 V\$SQLAREA, 497
 V\$SQLSTATS, 498
 V\$SQLTEXT, 500
 V\$SQLTEXT_WITH_NEWLINES, 501
 V\$SQLTEXT_WITH_NEWLINES2, 502
 V\$SQLTEXT2, 501
 V\$SSVR_CLIENT, 516
 V\$SSVR_FLASHCACHE, 516
 V\$SSVR_GRID_DISK, 516
 V\$SSVR_IOLOAD, 517
 V\$SSVR_IORM_CATEGORY_PLAN, 518
 V\$SSVR_IORM_DB_PLAN, 518
 V\$SSVR_IOSTAT, 518
 V\$SSVR_MEMSTAT, 519
 V\$SSVR_SLAB_STAT, 520
 V\$SSVR_STORAGE_DISK, 520
 V\$STANDBY, 521
 V\$STANDBY_ARCHIVED_LOG, 521
 V\$STANDBY_DEST, 522
 V\$STANDBY_LOG, 523
 V\$STANDBY_LOGFILE, 524
 V\$STANDBY_STATUS, 524
 V\$STATNAME, 525
 V\$SYS_TIME_MODEL, 527
 V\$SYSSTAT, 525
 V\$SYSSTAT_VALUE, 526
 V\$SYSTEM_EVENT, 526
 V\$SYSTEM_PARAMETERS, 526
 V\$TABLESPACE, 527
 V\$TACSTAT, 528
 V\$TEMPFILE, 528
 V\$TEMPSEG_OP_USAGE, 528

V\$TEMPSEG_USAGE, 529
 V\$TEMPSTAT, 530
 V\$THR_ACT_INFO, 532
 V\$THR_EVENT, 532
 V\$THRINFO, 531
 V\$TIMER, 533
 V\$TIMEZONE_NAMES, 533
 V\$TRANSACTION, 533
 V\$TSN_TIME, 535
 V\$UNDO_FREE_SPACE, 536
 V\$UNDOSTAT, 536
 V\$USGMT_TXENTRY, 537
 V\$VERSION, 538
 V\$WAITER_SESSION, 538
 V\$WAITSTAT, 538
 V\$WAITUSE_STAT, 539
 V\$WAITUSE_THR_STAT, 539

W

WALLET_FILE, 155
 WTHR_PER_PEP, 155
 WTHR_PER_PROC, 156
 WTHR_PROC_CNT, 156
 WTHR_PROC_CNT_MAX, 156

X

XA_MAX_BRANCH_CNT, 157
 XA_TIMER_INTERVAL, 157

ㄱ

기반 테이블, 160

ㄷ

데이터 사전, 159
 동적 뷰, 161

ㅁ

메타데이터, 159

ㄴ

사용자 유형별 데이터 사전의 접근 권한, 159

오

의미 분석 과정, 162

ㅈ

정적 뷰, 161

정적 뷰의 구분, 161

질의 최적화기, 163

ㅊ

특별한 목적의 DDL 문장, 165