oracle 10g 研究ORACLE_HOME rdbms admin 下的脚本的功能（29）c1001000.sql

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```
#upgrade Oracle RDBMS from 10.1.0 to the new release
#Put any dictionary related changes here (ie-create, alter,
Rem      update,...).  If you must upgrade using PL/SQL packages,
Rem      put the PL/SQL block in a1001000.sql since catalog.sql and
Rem      catproc.sql will be run before a1001000.sql is invoked.
Rem
Rem      This script is called from u1001000.sql and c0902000.sql
Rem
Rem      This script performs the upgrade in the following stages:
Rem        STAGE 1: upgrade from 10.1.0 to 10.2.0
Rem        STAGE 2: call catalog.sql and catproc.sql
#



Rem
Rem $Header: c1001000.sql 20-jun-2005.15:06:00 pthornto Exp $
Rem
Rem c1001000.sql
Rem
Rem Copyright (c) 1999, 2005, Oracle. All rights reserved.
Rem
Rem    NAME
Rem      c1001000.sql - upgrade Oracle RDBMS from 10.1.0 to the new release
Rem
Rem    DESCRIPTION
Rem      Put any dictionary related changes here (ie-create, alter,
Rem      update,...).  If you must upgrade using PL/SQL packages,
Rem      put the PL/SQL block in a1001000.sql since catalog.sql and
Rem      catproc.sql will be run before a1001000.sql is invoked.
Rem
Rem      This script is called from u1001000.sql and c0902000.sql
Rem
Rem      This script performs the upgrade in the following stages:
Rem        STAGE 1: upgrade from 10.1.0 to 10.2.0
Rem        STAGE 2: call catalog.sql and catproc.sql
Rem
Rem    NOTES
Rem      * This script must be run using SQL*PLUS.
Rem      * You must be connected AS SYSDBA to run this script.
Rem
Rem    MODIFIED   (MM/DD/YY)
Rem    pthornto    06/20/05 - correct revoke statments for CONNECT
Rem    mlfeng      05/31/05 - fix null column with re-upgrade
Rem    mlfeng      05/25/05 - bug 4393879: disable metrics constraints
Rem    dalpern     05/18/05 - 4180912: improved info in PLSQL_TRACE_EVENTS
Rem    bpwang      05/20/05 - Bug 4382313: Zero out flags in streams$_prepare*
Rem    mlfeng      05/19/05 - fix AWR upgrade issues
Rem    ssvemuri    05/16/05 - increase the row_id member size in chnf$_rdesc
Rem    mvemulap    05/13/05 - lrg 1852422 fix
Rem    ajadams     05/09/05 - dbms_logstdby_public package depricated
Rem    pbelknap    05/02/05 - wri$_adv_sqlt_rtn_plan constraint name change
Rem    mvemulap    05/03/05 - bug fix for 4318925
Rem    qyu         04/28/05 - #4280015: update array_index col name
```

```
Rem    mhho        04/20/05 - change colklc column size in enc$
Rem    ksurlake    04/22/05 - add constructor for aq$_reg_info
Rem    mlfeng      04/11/05 - add column to wrh$_sqlstat
Rem    adagarwa    03/24/05 - added new columns to wrh$_active_sess_history
Rem    tfyu        03/17/05 - Bug 4262763
Rem    htran       03/11/05 - remove transportable from fgr$_tablespace_info
Rem    lkaplan     03/18/05 - bug 4112826 - upgrade and downgrade of
Rem                           catqueue.sql needed
Rem    bvaranas    03/15/05 - Upgrade script for bug 4186885 - sync partition
Rem                           numbers for overflow partitions with base
Rem                           table partitions
Rem    rburns      03/14/05 - use dbms_registry_sys timestamp
Rem    wyang       03/02/05 - add columns to wrh&undostat
Rem    alakshmi    02/23/05 - error recovery for maintain_ apis
Rem    bdagevil    02/24/05 - increase maximum line size for dbms_xplan
Rem    mtao        02/16/05 - Bug 4189150, remove logmnr_log$_active index
Rem    jmallory    02/02/05 - Drop dbms_dbupgrade
Rem    mture       01/19/05 - 3979461: revoke public exec priv for xml funcs
Rem                           and drop AggXMLInputType
Rem    evoss       01/18/05 - scheduler_run_details cpu_used datatype change
Rem    ddas        01/11/05 - #(4052436) add hint_string to outln.ol$hints
Rem    sourghos    01/06/05 -
Rem    elu         01/03/05 - apply spilling
Rem    sourghos    12/30/04 - Fix bug 4043119
Rem    ilyubash    11/05/04 - Add gen column to i_aw_prop$ index
Rem    htran       11/16/04 - streams$_prepare_*: add spare2 and flags columns
Rem    apadmana    10/05/04 - bug3607838: manage any queue
Rem    rpfau       11/17/04 - Add revoke and drop synonym for the utl_xml
Rem                           package.
Rem    clei        11/15/04 - lrg 1796684 delete old privs before reuse
Rem    clei        10/28/04 - add merger [any] view permission
Rem    kyagoub     10/10/04 - add other column to advisor objects table
Rem    mlfeng      09/03/04 - add indexes to AWR tables
Rem    rgmani      10/26/04 - scheduler attributes table has new columns
Rem    jgalanes    10/15/04 - 3651756 revoke SELECT on exu?lnk from
Rem                           SELECT_CATALOG_ROLE
Rem    mxyang      09/27/04 - insert rows for plsql_ccflags in settings$
Rem    rramkiss    09/21/04 - security bug #3897723
Rem    arithikr    09/13/04 - 3877613 - create index atempind$
Rem    mtakahar    09/03/04 - #(3350342) create mon_mods_all$
Rem    rburns      09/02/04 - remove serveroutput
Rem    jnarasin    08/02/04 - EUS Proxy auditing changes
Rem    mlfeng      07/29/04 - modifications for AWR tables
Rem    xuhuali     06/30/04 - audit java
Rem    pbelknap    07/16/04 - AWR report types
Rem    kyagoub     08/03/04 - add new column diret_writes to
Rem                           wri$_adv_sqlt_statistics
Rem    rjenkins    08/11/04 - 3074260: func indexes should use REF
Rem                           dependencies
Rem    jnesheiw    08/03/04 - Revoke CONNECT role from LOGSTDBY_ADMINISTRATOR
Rem    rramkiss    04/21/04 - add CREATE EXTERNAL JOB system privilege
Rem    kdias       07/21/04 - privs for OUTLN user
Rem    nmanappa    07/20/04 - bug 3690876 - clean privs 194-199,239,240
Rem    rburns      07/15/04 - remove dbms_output compiles
Rem    dmwong      07/21/04 - remove old priv. from connect
Rem    skaluska    07/09/04 - split tsm_hist$ into tsm_src$, tsm_dst$
Rem    pbelknap    07/14/04 - rerun case for STS changes
Rem    araghava    07/07/04 - (3748430): make partitioning indexes unique
```

```
Rem    clei        07/07/04 - add enc$ for Transparent Column Encryption
Rem    pbelknap    06/29/04 - move sqlt block to 'a' script
Rem    pbelknap    06/29/04 - upgrade_regress errors
Rem    pbelknap    06/28/04 - add plan_hash_value to mask table
Rem    nbhatt      06/11/04 - add delivery mode to message_properties_t
Rem    hxlin       06/28/04 - upgrade sql response time
Rem    ajadams     06/20/04 - add index to logstdby events table
Rem    rburns      06/18/04 - remove final timestamp
Rem    veeve       06/16/04 - increase size of WRH$_ASH.PROGRAM
Rem    sbalaram    06/14/04 - Bug 3676284: drop dbms_streams_xml_lcr_utl pkg
Rem    mramache    05/28/04 - upgrade awr report types
Rem    pbelknap    06/25/04 - add timestamp to plans table
Rem    pbelknap    06/11/04 - add deltas for capture
Rem    pbelknap    05/14/04 - SQLSET_ROW change
Rem    pbelknap    05/12/04 - SQL tuning set schema changes
Rem    ssvemuri    06/15/04 - Change notification dictionary and types
Rem    ahwang      06/10/04 - add restore point audit_actions rows
Rem    mlfeng      05/21/04 - upgrade wr_control with topnsql
Rem    ksurlake    06/01/04 - Evolve reg$ and related types
Rem    bdagevil    06/03/04 - increase size of object_node
Rem    rvissapr    05/05/04 - add upgrade for dblink pwd encoding
Rem    vakrishn    06/01/04 - add status column to WRH$_UNDOSTAT
Rem    veeve       05/28/04 - add WRH$_SEG_STAT_OBJ.[INDEX_TYPE,BASE*]
Rem    rramkiss    05/31/04 - update name column of scheduler$_event_log
Rem    rramkiss    05/13/04 - truncate obsoleted scheduler chains data
Rem    liwong      06/09/04 - Add get_source_time
Rem    liwong      06/08/04 - Add oldest_transaction_id
Rem    dcassine    05/27/04 - changed streams$_apply_process
Rem    dsemler     05/14/04 - add dtp support
Rem    bdagevil    05/26/04 - generalize timestamp column in explain plan
Rem    bdagevil    05/24/04 - new other_xml in plan table
Rem    veeve       05/06/04 - blocking_session,xid columns in ASH
Rem    mlfeng      05/18/04 - update swrf_version in wr_control
Rem    skaluska    05/05/04 - merge to MAIN
Rem    skaluska    04/28/04 - sync with RDBMS_MAIN_SOLARIS_040426
Rem    jciminsk    04/28/04 - merge from RDBMS_MAIN_SOLARIS_040426
Rem    skaluska    04/15/04 - TSM modifications
Rem    lchidamb    04/09/04 - merge
Rem    jciminsk    04/09/04 - merge from RDBMS_MAIN_SOLARIS_040405
Rem    lchidamb    03/23/04 - add director history/reason table
Rem    skaluska    03/30/04 - instance SID in tsm_hist$
Rem    skaluska    03/18/04 - move TSM changes from c0902000.sql to
Rem    jciminsk    03/04/04 - move grid from c0902000
Rem    ckantarj    02/27/04 - add cardinality columns to service$
Rem    jstamos     02/25/04 - director indexes
Rem    mxiao       05/13/04 - add chdlevid# to dimjoinkey$
Rem    weiwang     03/09/04 - rules upgrade change
Rem    lkaplan     02/22/04 - generic lob assembly
Rem    rgmani      05/19/04 - Upgrade for scheduler
Rem    smuthuli    05/18/04 - one more stat to seg_stat
Rem    vmedi       05/04/04 - bugfix 3431498: drop extract & existsnode op
Rem    htran       04/22/04 - file group tables
Rem    alakshmi    04/19/04 - system privilege READ_ANY_FILE_GROUP
Rem    gssmith     04/20/04 - Adding new member to advisor type
Rem    sbodagal    04/14/04 - ADD a column TO dimlevel$
Rem    dsemler     04/13/04 - upgrade service$ for 10g2
Rem    rburns      04/07/04 - add scripts for release upgrade
Rem    jmzhang     05/12/04 - alter column datatype to system.logstdby$events
```

```
Rem                          - add columns to system.logstdby$apply_milestone
Rem                          - add columns to system.logstdby$apply_progress
Rem    mlfeng      04/26/04 - p1, p2, p3 for event name
Rem    rburns      03/26/04 - invalidate MVs
Rem    mxiao       03/30/04 - add columns to Materialized View metadata
Rem    arithikr    03/29/04 - 3473968 - correct mispell privilege
Rem    mbrey       04/08/04 - CDC meta changes for sequences
Rem    mbrey       03/30/04 - CDC change sources/propagations
Rem    ayoaz       03/03/04 - add index on type$.hashcode
Rem    clei        03/02/04 - remove encryption profiles
Rem    bpwang      02/09/04 - Upgrade apply$_error
Rem    alakshmi    02/24/04 - insert new system privileges for file groups
Rem    pbelknap    02/12/04 - case-sensitive sqlset definitions
Rem    mlfeng      02/03/04 - awr seg stat and rac changes
Rem    sbalaram    02/03/04 - add apply$_error_txn
Rem    gssmith     02/11/04 - Advisor Framework changes
Rem    rburns      01/16/04 - rburns_add_10_1_updw_scripts
Rem    rburns      01/07/04 - Created

Rem=========================================================================
Rem BEGIN STAGE 1: upgrade from 10.1.0 to 10.2
Rem=========================================================================

Rem Remove entries from sys.duc$ - rebuilt for 10.2 by catalog and catproc
truncate table duc$;

Rem=========================================================================
Rem Begin Advisor Framework upgrade items
Rem=========================================================================

alter table sys.wri$_adv_recommendations add (flags number);
alter table sys.wri$_adv_def_parameters add (description varchar2(9));
alter table sys.wri$_adv_parameters add (description varchar2(9));
alter table sys.wri$_adv_sqlt_plans add (other_xml clob);
alter table sys.wri$_adv_objects add (other clob);

alter type wri$_adv_abstract_t
  add member procedure sub_implement(task_id in number,
                                     rec_id in number,
                                     exit_on_error number)
  cascade;

alter type wri$_adv_sqlaccess_adv
  add overriding member procedure sub_implement(task_id in number,
                                                rec_id in number,
                                                exit_on_error number)
  cascade;

alter type wri$_adv_tunemview_adv
  add overriding member procedure sub_implement(task_id in number,
                                                rec_id in number,
                                                exit_on_error number)
  cascade;

Rem=========================================================================
Rem End Advisor Framework upgrade items
Rem=========================================================================
```

```
Rem=========================================================================
Rem Add new system privileges here
Rem=========================================================================

delete from SYSAUTH$ where privilege# = -233;
delete from SYSTEM_PRIVILEGE_MAP where privilege = -233;
delete from audit$ where option# = 233;

insert into SYSTEM_PRIVILEGE_MAP values (-233, 'MERGE ANY VIEW', 0);
insert into SYSTEM_PRIVILEGE_MAP values (-276, 'MANAGE FILE GROUP', 1);
insert into SYSTEM_PRIVILEGE_MAP values (-277, 'MANAGE ANY FILE GROUP', 1);
insert into SYSTEM_PRIVILEGE_MAP values (-278, 'READ ANY FILE GROUP', 1);
insert into  SYSTEM_PRIVILEGE_MAP values (-279, 'CHANGE NOTIFICATION', 0);
insert into  SYSTEM_PRIVILEGE_MAP values (-280, 'CREATE EXTERNAL JOB', 0);
grant all privileges, analyze any dictionary to dba with admin option;

delete from SYSTEM_PRIVILEGE_MAP
  where privilege in (-194, -195, -196, -197, -198, -199,
                      -229, -230, -231, -232,
                      -239, -240);

delete from STMT_AUDIT_OPTION_MAP
  where option# in (194, 195, 196, 197, 198, 199,
                    239, 240);

update SYSTEM_PRIVILEGE_MAP set name = 'GRANT ANY OBJECT PRIVILEGE'
  where privilege=-244;
update STMT_AUDIT_OPTION_MAP set name = 'GRANT ANY OBJECT PRIVILEGE'
  where option#=244;

delete from sysauth$ where privilege# in (-194, -195, -196, -197, -198, -199,
                                          -229, -230, -231, -232, -239, -240);

delete from audit$ where option# in (194, 195, 196, 197, 198, 199,
                                     229, 230, 231, 232, 239, 240);
BEGIN
  EXECUTE IMMEDIATE
   'REVOKE CONNECT from LOGSTDBY_ADMINISTRATOR';
EXCEPTION
   WHEN OTHERS THEN
      IF SQLCODE IN (-1917, -1918, -1919, -1951, -1952) THEN NULL;
      ELSE RAISE;
      END IF;
END;
/

Rem=========================================================================
Rem Add new object privileges here
Rem=========================================================================

insert into TABLE_PRIVILEGE_MAP values (28, 'MERGE');

Rem=========================================================================
Rem Grant CREATE EXTERNAL JOB to all users with CREATE JOB (for compatibility)
Rem=========================================================================
DECLARE
  TYPE varchartab IS TABLE OF VARCHAR2(60);
  user_clauses varchartab;
```

```
  i PLS_INTEGER;
BEGIN

  SELECT '"'|| grantee || '"' ||
    decode(admin_option,'YES',' WITH ADMIN OPTION','')
  BULK COLLECT INTO user_clauses FROM dba_sys_privs
  WHERE PRIVILEGE='CREATE JOB';

  FOR i IN user_clauses.FIRST ..  user_clauses.LAST
  LOOP
    EXECUTE IMMEDIATE 'GRANT CREATE EXTERNAL JOB TO ' || user_clauses(i);
  END LOOP;
END;
/

Rem=========================================================================
Rem Removal old privileges from CONNECT role
Rem=========================================================================
BEGIN
  EXECUTE IMMEDIATE 'REVOKE ALTER SESSION FROM CONNECT';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE = -1952 THEN NULL;
    ELSE RAISE;
    END IF;
END;
/
BEGIN
  EXECUTE IMMEDIATE 'REVOKE CREATE SYNONYM FROM CONNECT';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE = -1952 THEN NULL;
    ELSE RAISE;
    END IF;
END;
/
BEGIN
  EXECUTE IMMEDIATE 'REVOKE CREATE VIEW FROM CONNECT';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE = -1952 THEN NULL;
    ELSE RAISE;
    END IF;
END;
/
BEGIN
  EXECUTE IMMEDIATE 'REVOKE CREATE DATABASE LINK FROM CONNECT';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE = -1952 THEN NULL;
    ELSE RAISE;
    END IF;
END;
/
BEGIN
  EXECUTE IMMEDIATE 'REVOKE CREATE TABLE FROM CONNECT';
EXCEPTION
  WHEN OTHERS THEN
```

```
    IF SQLCODE = -1952 THEN NULL;
    ELSE RAISE;
    END IF;
END;
/
BEGIN
  EXECUTE IMMEDIATE 'REVOKE CREATE CLUSTER FROM CONNECT';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE = -1952 THEN NULL;
    ELSE RAISE;
    END IF;
END;
/
BEGIN
  EXECUTE IMMEDIATE 'REVOKE CREATE SEQUENCE FROM CONNECT';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE = -1952 THEN NULL;
    ELSE RAISE;
    END IF;
END;
/

Rem=========================================================================
Rem Revoke SELECT on exu?lnk FROM SELECT_CATALOG_ROLE
Rem=========================================================================
BEGIN
  EXECUTE IMMEDIATE 'REVOKE SELECT ON sys.exu9lnk FROM SELECT_CATALOG_ROLE';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -942, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/
BEGIN
  EXECUTE IMMEDIATE 'REVOKE SELECT ON sys.exu8lnk FROM SELECT_CATALOG_ROLE';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -942, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/
BEGIN
  EXECUTE IMMEDIATE 'REVOKE SELECT ON sys.exu7lnk FROM SELECT_CATALOG_ROLE';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -942, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/

Rem=========================================================================
Rem Add new audit options here
Rem=========================================================================
```

```
insert into STMT_AUDIT_OPTION_MAP values (233, 'MERGE ANY VIEW', 0);
insert into STMT_AUDIT_OPTION_MAP values (276, 'MANAGE FILE GROUP', 0);
insert into STMT_AUDIT_OPTION_MAP values (277, 'MANAGE ANY FILE GROUP', 0);
insert into STMT_AUDIT_OPTION_MAP values (278, 'READ ANY FILE GROUP', 0);
insert into STMT_AUDIT_OPTION_MAP values (279, 'CHANGE NOTIFICATION', 0);
insert into STMT_AUDIT_OPTION_MAP values (280, 'CREATE EXTERNAL JOB', 0);

insert into STMT_AUDIT_OPTION_MAP values (93, 'CREATE JAVA SOURCE', 0);
insert into STMT_AUDIT_OPTION_MAP values (94, 'CREATE JAVA CLASS', 0);
insert into STMT_AUDIT_OPTION_MAP values (95, 'CREATE JAVA RESOURCE', 0);
insert into STMT_AUDIT_OPTION_MAP values (96, 'ALTER JAVA SOURCE', 0);
insert into STMT_AUDIT_OPTION_MAP values (97, 'ALTER JAVA CLASS', 0);
insert into STMT_AUDIT_OPTION_MAP values (98, 'ALTER JAVA RESOURCE', 0);
insert into STMT_AUDIT_OPTION_MAP values (99, 'DROP JAVA SOURCE', 0);
insert into STMT_AUDIT_OPTION_MAP values (100, 'DROP JAVA CLASS', 0);
insert into STMT_AUDIT_OPTION_MAP values (101, 'DROP JAVA RESOURCE', 0);

update STMT_AUDIT_OPTION_MAP set property = 0
  where option# = 218 and name = 'MANAGE ANY QUEUE';
update STMT_AUDIT_OPTION_MAP set property = 0
  where option# = 219 and name = 'ENQUEUE ANY QUEUE';
update STMT_AUDIT_OPTION_MAP set property = 0
  where option# = 220 and name = 'DEQUEUE ANY QUEUE';

insert into STMT_AUDIT_OPTION_MAP values (245, 'CREATE EVALUATION CONTEXT', 0);
insert into STMT_AUDIT_OPTION_MAP
   values (246, 'CREATE ANY EVALUATION CONTEXT', 0);
insert into STMT_AUDIT_OPTION_MAP
   values (247, 'ALTER ANY EVALUATION CONTEXT', 0);
insert into STMT_AUDIT_OPTION_MAP
   values (248, 'DROP ANY EVALUATION CONTEXT', 0);
insert into STMT_AUDIT_OPTION_MAP
   values (249, 'EXECUTE ANY EVALUATION CONTEXT', 0);
insert into STMT_AUDIT_OPTION_MAP values (250, 'CREATE RULE SET', 0);
insert into STMT_AUDIT_OPTION_MAP values (251, 'CREATE ANY RULE SET', 0);
insert into STMT_AUDIT_OPTION_MAP values (252, 'ALTER ANY RULE SET', 0);
insert into STMT_AUDIT_OPTION_MAP values (253, 'DROP ANY RULE SET', 0);
insert into STMT_AUDIT_OPTION_MAP values (254, 'EXECUTE ANY RULE SET', 0);
insert into STMT_AUDIT_OPTION_MAP values (257, 'CREATE RULE', 0);
insert into STMT_AUDIT_OPTION_MAP values (258, 'CREATE ANY RULE', 0);
insert into STMT_AUDIT_OPTION_MAP values (259, 'ALTER ANY RULE', 0);
insert into STMT_AUDIT_OPTION_MAP values (260, 'DROP ANY RULE', 0);
insert into STMT_AUDIT_OPTION_MAP values (261, 'EXECUTE ANY RULE', 0);

Rem====================================================================
Rem Add new audit_actions rows here
Rem====================================================================

-- add restore point related rows

insert into audit_actions values (206, 'CREATE RESTORE POINT');
insert into audit_actions values (207, 'DROP RESTORE POINT');

-- add single session proxy related rows

insert into audit_actions values (208, 'PROXY AUTHENTICATION ONLY') ;
```

```
Rem=========================================================================
Rem Drop views removed from last release here
Rem Remove obsolete dependencies for any fixed views in i1001000.sql
Rem=========================================================================
drop view DBA_HIST_CLASS_CACHE_TRANSFER;
drop public synonym DBA_HIST_CLASS_CACHE_TRANSFER;

Rem=========================================================================
Rem Drop packages removed from last release here
Rem=========================================================================

drop package DBMS_STREAMS_XML_LCR_UTL;
drop package DBMS_DBUPGRADE;
drop package DBMS_LOGSTDBY_PUBLIC;

Rem=========================================================================
Rem For the 10.1 to 10.2 upgrade, utlip.sql is NOT run as part of the
Rem upgrade since PL/SQL objects do not need to be recompiled.  Any other
Rem types of objects that need to be invalidated should be include here.
Rem=========================================================================

Rem Invalite Materialized Views
update obj$ set status = 5 where type# = 42;
commit;

Rem=========================================================================
Rem Add changes to sql.bsq dictionary tables here
Rem=========================================================================

Rem Recreate atempind$ just in case it did not get create by c0800050.sql
Rem ORA-00955 if the index is already created.
create index atempind$ on atemptab$(id)
              /* indexes backing up workspaces on disk claim to be atempind$ */
/

Rem
Rem Add generation number to i_aw_prop$ index

begin
  execute immediate 'drop index sys.i_aw_prop$';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/

create index sys.i_aw_prop$
  on sys.aw_prop$ (awseq#, oid, propname, gen#)
  tablespace sysaux
/



Rem
Rem Add cardinality columns to service$

ALTER TABLE service$ ADD
```

```
(
  min_cardinality    number,                                  /* cardinality */
  max_cardinality    number,
  goal               number,                                  /* service goal */
                                                                  /* none : 0 */
                                                            /* service time : 1 */
                                                                /* throughput : 2 */
  flags              number                          /* service attribute flags */
                                                         /* GRID enabled : 0x1 */
                                                          /* DTP service : 0x2 */
);

Rem
Rem director changes

begin
  execute immediate 'drop index sys.i_dir$migrate_ui';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/

create unique index sys.i_dir$migrate_ui
  on sys.dir$migrate_operations(job_name, status)
  tablespace sysaux
/

create index sys.i_dir$migrate_status
  on sys.dir$migrate_operations(status)
  tablespace sysaux
/

begin
  execute immediate 'drop index sys.i_dir$service_ui';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/

create unique index sys.i_dir$service_ui
  on sys.dir$service_operations(job_name, status)
  tablespace sysaux
/

create index sys.i_dir$service_status
  on sys.dir$service_operations(status)
  tablespace sysaux
/

begin
  execute immediate 'drop index sys.i_dir$quiesce_ui';
exception
```

```
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/

create unique index sys.i_dir$quiesce_ui
  on sys.dir$quiesce_operations(job_name, status)
  tablespace sysaux
/

begin
  execute immediate 'drop index sys.i_dir$resonate_ui';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/

create unique index sys.i_dir$resonate_ui
  on sys.dir$resonate_operations(job_name, status)
  tablespace sysaux
/

begin
  execute immediate 'drop index i_dir$escalate_ui';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/

create unique index sys.i_dir$escalate_ui
  on sys.dir$escalate_operations(escalation_id, status)
  tablespace sysaux
/

create index sys.i_dir$escalate_status
  on sys.dir$escalate_operations(status)
  tablespace sysaux
/

begin
  execute immediate 'drop index sys.i_dir$db_attributes_ui';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/

create unique index sys.i_dir$db_attributes_ui
```

```
  on sys.dir$database_attributes(database_name, attribute_name)
  tablespace sysaux
/

begin
  execute immediate 'drop index sys.i_dir$service_attributes_serv';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/

create unique index sys.i_dir$service_attributes_ui
  on sys.dir$service_attributes(service_id, attribute_name)
  tablespace sysaux
/

rem table used by director for keeping alert history
create table dir$alert_history
(
   alert_name       varchar2(200),
   message_level    number,
   action_id        number,
   reason_id        number,
   last_time        date,
   next_time        date,
   action_time      date,
   incarnation_info varchar2(4000),
   job_name         varchar2(100),
   sparen1          number,
   sparen2          number,
   sparen3          number,
   sparen4          number,
   sparen5          number,
   sparevc1         varchar2(4000),
   sparevc2         varchar2(4000),
   sparevc3         varchar2(4000),
   sparevc4         varchar2(4000),
   sparevc5         varchar2(4000))
tablespace sysaux
/

create index sys.i_dir$alert_history_name
  on sys.dir$alert_history(alert_name)
  tablespace sysaux
/
create index sys.i_dir$alert_history_action_id
  on sys.dir$alert_history(action_id)
  tablespace sysaux
/
create index sys.i_dir$alert_history_reason_id
  on sys.dir$alert_history(reason_id)
  tablespace sysaux
/
create index sys.i_dir$alert_history_at
  on sys.dir$alert_history(action_time)
```

```
  tablespace sysaux
/

rem table used by director for keeping reasons
create table dir$reason_strings
(
   reason_id        number,
   reason           varchar2(4000),
   sparen1          number,
   sparen2          number,
   sparevc1         varchar2(4000),
   sparevc2         varchar2(4000))
tablespace sysaux
/

create unique index sys.i_dir$reason_strings_ui
  on sys.dir$reason_strings(reason_id)
  tablespace sysaux
/

Rem
Rem TSM (transparent session migration)
Rem

begin
  execute immediate 'drop index i_tsm_hist1';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/
drop table tsm_hist$;
/
create table tsm_src$
(
  /* the following are set by start_migration */
  src_db_name               varchar2(4000),                /* source db name */
  src_inst_name             varchar2(4000),          /* source instance name */
  src_inst_id               varchar2(4000),            /* source instance id */
  src_inst_start_time       timestamp with time zone,
                                        /* start time for source instance */
  sequence#                 number,             /* migration sequence number */
  src_sid                   number,         /* session id on source instance */
  src_serial#               number,            /* serial# on source instance */
  src_state                 number,                        /* migration state */
  connect_string            varchar2(4000),    /* destination connect string */
  src_start_time            timestamp with time zone,/* migration start time */
  /* the following are updated by source session */
  cost                      number,              /* estimated migration cost */
  failure_reason            number,       /* reason for failure of migration */
  src_end_time              timestamp with time zone,  /* migration end time */
  roundtrips                number, /* number of roundtrips during migration */
  src_userid                number,                                /* user id */
  src_schemaid              number,                              /* schema id */
  dst_db_name               varchar2(4000)            /* destination db name */
)
```

```
tablespace SYSAUX
/
create index i_tsm_src1$ on tsm_src$(sequence#)
tablespace SYSAUX
/
create index i_tsm_src2$ on tsm_src$(src_sid, src_serial#, sequence#)
tablespace SYSAUX
/
create table tsm_dst$
(
  src_db_name               varchar2(4000),               /* source db name */
  dst_db_name               varchar2(4000),           /* destination db name */
  dst_inst_name             varchar2(4000),     /* destination instance name */
  dst_inst_id               varchar2(4000),       /* destination instance id */
  dst_inst_start_time       timestamp with time zone,
                                    /* start time for destination instance */
  sequence#                 number,             /* migration sequence number */
  dst_sid                   number,    /* session id on destination instance */
  dst_serial#               number,       /* serial# on destination instance */
  dst_start_time            timestamp with time zone,/* migration start time */
  dst_end_time              timestamp with time zone,  /* migration end time */
  dst_userid                number,                                /* user id */
  dst_schemaid              number,                               /* schema id */
  dst_state                 number            /* destination migration state */
)
tablespace SYSAUX
/
create index i_tsm_dst1$ on tsm_dst$(sequence#)
tablespace SYSAUX
/
create index i_tsm_dst2$ on tsm_dst$(dst_sid, dst_serial#, sequence#)
tablespace SYSAUX
/
create sequence tsm_mig_seq$
  increment by 1
  start with 1
  minvalue 0
  nomaxvalue
  cache 10
  order
  nocycle
/

Rem Add columns to Materialized View metadata
ALTER TABLE snap$   ADD(syn_count  INTEGER);
ALTER TABLE sumdep$ ADD(syn_own    VARCHAR2(30));
ALTER TABLE sumdep$ ADD(syn_name   VARCHAR2(30));
ALTER TABLE sumdep$ ADD(syn_master NUMBER);
ALTER TABLE sumdep$ ADD(vw_query LONG);
ALTER TABLE sumdep$ ADD(vw_query_len NUMBER);
UPDATE snap$   SET syn_count  = 0;
UPDATE sumdep$ SET syn_master = 0;
UPDATE sumdep$ SET vw_query_len = 0;

Rem Begin streams changes.
-- add lob assembly
alter table sys.apply$_dest_obj_ops add
  (assemble_lobs        char(1) default 'N');
```

```
rem table used to store message ids of error transactions for Streams
create table apply$_error_txn
(
  msg_id               raw(16),        /* unique id of a msg, same as in the */
                                                                  /* queue table */
  local_transaction_id varchar2(22),       /* id of txn that created the err */
  txn_message_number   number          /* unique number of a msg in the txn. */
)
/


rem Recoverable script : table storing recoverable script details
create table reco_script$
(
  oid                    raw(16),                       /* global unique id */
  invoking_package_owner varchar2(30),         /* pkg owner of invoking proc */
  invoking_package       varchar2(30),           /* name of the invoking pkg */
  invoking_procedure     varchar2(30),          /* name of the invoking proc */
  invoking_user          varchar2(30),                      /* invoking user */
  total_blocks           number,     /* total number of blocks in the script */
  context                clob,        /* any context the user wishes to pass */
                              /* between blocks, like some state variables */
  status                 number,   /* GENERATING, EXECUTING, EXECUTED, ERROR */
  done_block_num         number,
                           /* nth block that has been successfully executed */
  script_comment         varchar2(4000),       /* comments passed in by user */
  ctime                  date default SYSDATE,         /* script create time */
  spare1                 number,
  spare2                 number,
  spare3                 number,
  spare4                 varchar2(1000),
  spare5                 varchar2(1000),
  spare6                 date
)
tablespace SYSAUX
/

create unique index reco_script$_unq
  on reco_script$ (oid)
tablespace SYSAUX
/

rem Recoverable script : table storing operation parameters
create table reco_script_params$
(
  oid            raw(16),               /* global unique id of the operation */
  param_index    number,               /* to associate multivalue parameters */
  name           varchar2(30),                          /* name of parameter */
  value          varchar2(4000),                       /* value of parameter */
  spare1         number,
  spare2         number,
  spare3         varchar2(1000)
)
tablespace SYSAUX
/

create unique index reco_script_params$_unq
```

```
  on reco_script_params$ (oid, name, param_index)
tablespace SYSAUX
/

rem Recoverable script : table storing recoverable script blocks
create table reco_script_block$
(
  oid                  raw(16),                          /* global unique id */
  block_num            number,                    /* nth block in the script */
  forward_block        clob,                  /* forward block to be executed */
  forward_block_dblink varchar2(128),     /* where forward block is executed */
  undo_block           clob,     /* block to be executed in case of rollback */
  undo_block_dblink    varchar2(128),         /* where undo block is executed */
  state_block          clob,         /* block to be executed to set the state */
  status               number,   /* EXECUTED, ERROR, NOT EXECUTED, EXECUTING */
  context              clob,               /* any ctx the user wishes to pass */
  block_comment        varchar2(4000),         /* user comments for the block */
  ctime                date default SYSDATE,   /* time the block was created */
  spare1               number,
  spare2               number,
  spare3               number,
  spare4               varchar2(1000),
  spare5               varchar2(1000),
  spare6               date
)
tablespace SYSAUX
/

create unique index reco_script_block$_unq
  on reco_script_block$ (oid, block_num)
tablespace SYSAUX
/

rem Recoverable script : table storing recoverable script errors
create table reco_script_error$
(
  oid                 raw(16),                          /* global unique id */
  block_num           number,                       /* nth block that failed */
  error_number        number,                                /* error number */
  error_message       varchar2(4000),                      /* error message */
  error_creation_time date default SYSDATE,           /* time error occured */
  spare1              number,
  spare2              varchar2(1000)
)
tablespace SYSAUX
/


Rem add oldest_transaction_id to streams$_apply_milestone
ALTER TABLE streams$_apply_milestone ADD
(
  oldest_transaction_id varchar2(22)               /* oldest transaction id */
)
/

Rem add ua_notification_handler to streams$_apply_process
ALTER TABLE streams$_apply_process ADD
(
```

```
  UA_NOTIFICATION_HANDLER VARCHAR2(98),
  UA_RULESET_OWNER        VARCHAR2(30),
  UA_RULESET_NAME         VARCHAR2(30)
);

create unique index streams$_apply_error_txn_unq
  on apply$_error_txn(local_transaction_id, txn_message_number)
  tablespace SYSAUX
/

ALTER TABLE apply$_error ADD
(
  error_creation_time   date                    /* time this error occurred */
)
/

Rem apply spilling transaction information
create table streams$_apply_spill_txn
(
  applyname              varchar2(30) NOT NULL, /* name of the apply process */
  xidusn                    number NOT NULL,    /* source transaction ID usn */
  xidslt                    number NOT NULL,    /* source transaction ID slt */
  xidsqn                    number NOT NULL,    /* source transaction ID sqn */
  first_scn                 number NOT NULL,         /* first SCN in the txn */
  last_scn                  number,                   /* last SCN in the txn */
  last_scn_seq              number,              /* last sequence in the txn */
  last_cap_instno           number,          /* capture instantiation number */
  commit_scn                number,                /* commit SCN for the txn */
  spillcount                number,        /* the number of messages spilled */
  err_num                   number,                           /* raised error */
  err_idx                   number,       /* index of lcr which raised error */
  sender                    varchar2(30),       /* user who enqueued the txn */
  flags                     number,                       /* txn level flags */
  priv_state                number,                             /* txn state */
  distrib_cscn              number,                /* distributed commit SCN */
  src_commit_time           number,  /* time when txn commited on the source */
  dep_flag                  number,                      /* dependency state */
  spill_flags               number,                  /* spill specific flags */
  first_message_create_time date,          /* time first message was created */
  spill_creation_time       date DEFAULT SYSDATE,  /* time of spill creation */
  txnkey                    number,       /* the id key for this transaction */
  spare1          number,
  spare2          number,
  spare3          number,
  spare4          number,
  spare5          varchar2(4000),
  spare6          varchar2(4000),
  spare7          varchar2(4000)
)
tablespace SYSAUX
/
create unique index i_streams_apply_spill_txn
 on streams$_apply_spill_txn(applyname, xidusn, xidslt, xidsqn)
tablespace SYSAUX
/

rem apply spill tracking table
create table streams$_apply_spill_txn_list
```

```
(
  txnkey                    number,/* the id key in streams$_apply_spill_txn */
  status                    varchar2(1),
  spare1                    number,
  spare2                    number,
  spare3                    varchar2(4000),
  spare4                    varchar2(4000)
)
tablespace SYSAUX
/

Rem add spare2 and flags columns to streams$_prepare_ddl
ALTER TABLE streams$_prepare_ddl ADD
(
  flags       number,           /* flags for supplemental logging: see knl.h */
  spare2      varchar2(1000)
)
/

Rem add spare2 and flags columns to streams$_prepare_object
ALTER TABLE streams$_prepare_object ADD
(
  flags       number,           /* flags for supplemental logging: see knl.h */
  spare2      varchar2(1000)
)
/

Rem Zero out flags column
UPDATE streams$_prepare_ddl
  SET flags = 0
  WHERE flags IS NULL;
COMMIT;

UPDATE streams$_prepare_object
  SET flags = 0
  WHERE flags IS NULL;
COMMIT;

Rem
Rem Begin CDC changes here
Rem

Rem add new columns to cdc_change_sources$

alter table cdc_change_sources$
add (
  capture_name       varchar2(30),            /* Streams capture engine name */
  capqueue_name      varchar2(30),             /* Streams capture queue name */
  capqueue_tabname   varchar2(30),       /* Streams capture queue table name */
  source_enabled     char(1)                  /* Y or N - is capture started */
)
/

Rem add new columns to cdc_change_sets$

alter table cdc_change_sets$
add (
  set_sequence  varchar2(30)               /* sequence object name for rsid */
```

```
)
/

Rem add new tables

create table cdc_propagations$                      /* cdc propagation info */
(                                        /* describes a given propagation  */
  propagation_name   varchar2(30) not null,       /*Streams propagation name */
  destqueue_publisher varchar2(30) not null,          /* owner of dest queue */
  destqueue_name     varchar2(30) not null,        /* destination queue name */
  staging_database   varchar2(128) not null,         /* stage db global name */
  sourceid_name      varchar2(30) not null,
                                        /* source identifier name for propag */
  source_class       number not null    /* class of source                   */
                                        /* 1=propag starts at change source  */
                                        /* 2=propag starts at change set     */
)
/
create index i_cdc_propagations$ on cdc_propagations$(propagation_name)
/
create table cdc_propagated_sets$               /* cdc set propagation info */
(                                    /* correlates progations to change sets */
  propagation_name    varchar2(30) not null,       /*Streams propagation name*/
  change_set_publisher varchar2(30) not null,       /* change set publisher  */
  change_set_name     varchar2(30) not null       /* change set name-stage db*/
)
/
create index i_cdc_propagated_sets$ on cdc_propagated_sets$(propagation_name)
/

Rem
Rem end CDC changes
Rem

Rem BEGIN File Group tables

rem file groups
create table fgr$_file_groups
(
  file_group_id     number             not null,      /* obj# for file group */
  keep_files        varchar2(1)        not null,        /* keep files setting*/
  min_versions      number             not null,       /* min number to keep */
  max_versions      number             not null,       /* max number to keep */
  retention_days    number             not null,         /* max days to keep */
  creator           varchar2(30) not null,             /* file group creator */
  creation_time     timestamp with time zone not null,      /* creation time */
  sequence_name     varchar2(30) not null,        /* sequence for version id */
  audit$            varchar2(38) not null,               /* auditing options */
  user_comment      varchar2(4000),                         /* user comment */
  default_dir_obj   varchar2(30),               /* default directory object */
  spare1            number,
  spare2            number,
  spare3            varchar2(30),
  spare4            varchar2(128)
)
/

create unique index i_fgr$_file_groups1
```

```
 on fgr$_file_groups(file_group_id)
/

rem file group versions
create table fgr$_file_group_versions
(
  version_id        number             not null,      /* internal version id */
  file_group_id     number             not null,     /* version's file group */
  creator           varchar2(30) not null,              /* version's creator */
  creation_time     timestamp with time zone not null,      /* creation time */
  version_guid      raw(16)            not null,           /* version's GUID */
  version_name      varchar2(30) not null,                /* name of version */
  user_comment      varchar2(4000),                           /* user comment */
  default_dir_obj   varchar2(30),                /* default directory object */
  spare1            number,
  spare2            number,
  spare3            varchar2(30),
  spare4            varchar2(128)
)
/
create unique index i_fgr$_file_group_versions1
 on fgr$_file_group_versions(version_name, file_group_id)
/
create unique index i_fgr$_file_group_versions2
 on fgr$_file_group_versions(file_group_id, version_id)
/
create unique index i_fgr$_file_group_versions3
 on fgr$_file_group_versions(version_guid)
/

rem file group versions export info
create table fgr$_file_group_export_info
(
  version_guid      raw(16)            not null,           /* version's GUID */
  export_version    varchar2(30) not null,           /* export compatibility */
  export_platform   varchar2(101)      not null,          /* export platform */
  export_time       date               not null,              /* export time */
  export_scn        number,                                  /* export scn */
  source_db_name    varchar2(128),              /* global name of the source */
  spare1            number,
  spare2            number,
  spare3            varchar2(30),
  spare4            varchar2(128)
)
/
create unique index i_fgr$_file_group_export_info1
 on fgr$_file_group_export_info(version_guid)
/

rem file group files
create table fgr$_file_group_files
(
  file_name         varchar2(512) not null,                    /* file name */
  creator           VARCHAR2(30) not null,                   /* file creator */
  /* file's creation time */
  creation_time     timestamp with time zone not null,
  file_dir_obj      varchar2(30) not null,/* directory object for file */
  version_guid      raw(16)            not null,           /* version's GUID */
```

```
  file_size         number,                                  /* file size */
  file_blocksize    number,                                /* file block size */
  file_type         varchar2(32),                            /* file type */
  user_comment      varchar2(4000),                        /* user comment */
  spare1            number,
  spare2            number,
  spare3            varchar2(30),
  spare4            varchar2(128)
)
/
create unique index i_fgr$_file_group_files1
 on fgr$_file_group_files(file_name, version_guid)
/
create index i_fgr$_file_group_files2
 on fgr$_file_group_files(version_guid)
/

create table fgr$_tablespace_info
(
  version_guid      raw(16)            not null,           /* version's GUID */
  tablespace_name   varchar2(30)       not null,          /* tablespace name */
  spare1            number,
  spare2            number,
  spare3            varchar2(30),
  spare4            varchar2(128)
)
/
create unique index i_fgr$_tablespace_info1
 on fgr$_tablespace_info(version_guid, tablespace_name)
/
create index i_fgr$_tablespace_info2
 on fgr$_tablespace_info(tablespace_name)
/

create table fgr$_table_info
(
  version_guid      raw(16)            not null,           /* version's GUID */
  schema_name       varchar2(30) not null,                   /* schema name */
  table_name        varchar2(30) not null,                    /* table name */
  tablespace_name   varchar2(30),                          /* tablespace name */
  scn               number,                                     /* export scn */
  spare1            number,
  spare2            number,
  spare3            varchar2(30),
  spare4            varchar2(128)
)
/
create unique index i_fgr$_table_info1
 on fgr$_table_info(version_guid, schema_name, table_name, tablespace_name)
/
create index i_fgr$_table_info2
 on fgr$_table_info(schema_name, table_name, tablespace_name)
/
create index i_fgr$_table_info3
 on fgr$_table_info(table_name)
/

Rem END File Group tables
```

```
Rem Add a new column to dimlevel$ TO support dimensions with SKIP WHEN NULL
ALTER TABLE sys.dimlevel$ ADD (flags NUMBER DEFAULT 0);

Rem Add a new column to dimjoinkey$ for child level id
ALTER TABLE sys.dimjoinkey$ ADD (chdlevid# NUMBER DEFAULT 0);

rem Add goal column to service$
alter table service$ add
(
  goal       number,                                        /* service goal */
                                                                /* none : 0 */
                                                          /* service time : 1 */
                                                              /* throughput : 2 */
  flags      number                                 /* service attribute flags */
                                                        /* DTP service : 0x1 */
)
/

Rem LINK$ TABLE HAS TWO NEW COLUMNS



ALTER TABLE link$ ADD (passwordx RAW(128));
ALTER TABLE link$ ADD (authpwdx  RAW(128));

Rem Change partitioning index to be unique (bug 3748430)
Rem before creating unique indexes, lets fix bug 3802863 which could have
Rem created non-unique part# values in indpart$ and indsubpart$.

merge into indpart$ ip0 using
  (select lf.frag# part#, ip.obj# obj#
   from   indpart$ ip, lobfrag$ lf
   where  ip.obj# = lf.indfragobj# and ip.part# != lf.frag#) ip1
on (ip1.obj# = ip0.obj#)
when matched then
update set ip0.part# = ip1.part#;

merge into indsubpart$ isp0 using
  (select lf.frag# subpart#, isp.obj# obj#
   from   indsubpart$ isp, lobfrag$ lf
   where  isp.obj# = lf.indfragobj# and isp.subpart# != lf.frag#) isp1
on (isp1.obj# = isp0.obj#)
when matched then
update set isp0.subpart# = isp1.subpart#;

drop index i_tabpart$
/
create unique index i_tabpart_bopart$ on tabpart$(bo#, part#)
/
drop index i_tabpart_obj$
/
create unique index i_tabpart_obj$ on tabpart$(obj#)
/
drop index i_indpart$
/
create unique index i_indpart_bopart$ on indpart$(bo#, part#)
/
drop index i_indpart_obj$
```

```
/
create unique index i_indpart_obj$ on indpart$(obj#)
/
drop index i_tabsubpart$
/
create unique index i_tabsubpart_pobjsubpart$ on tabsubpart$(pobj#, subpart#)
/
drop index i_tabsubpart$_obj$
/
create unique index i_tabsubpart$_obj$ on tabsubpart$(obj#)
/
drop index i_indsubpart$
/
create unique index i_indsubpart_pobjsubpart$ on indsubpart$(pobj#, subpart#)
/
drop index i_indsubpart_obj$
/
create unique index i_indsubpart_obj$ on indsubpart$(obj#)
/
create unique index i_tabcompart_bopart$ on tabcompart$(bo#, part#)
/
create unique index i_indcompart_bopart$ on indcompart$(bo#, part#)
/
drop index i_lobfrag$_parentobj$
/
create unique index i_lobfrag_parentobjfrag$ on lobfrag$(parentobj#, frag#)
/
drop index i_lobfrag$_fragobj$
/
create unique index i_lobfrag$_fragobj$ on lobfrag$(fragobj#)
/
drop index i_lobcomppart$_partlobj$
/
create index i_lobcomppart_lobjpart$ on lobcomppart$(lobj#, part#)
/
drop index i_lobcomppart$_partobj$
/
create unique index i_lobcomppart$_partobj$ on lobcomppart$(partobj#)
/
drop index i_defsubpart$
/
create unique index i_defsubpart$ on defsubpart$(bo#, spart_position)
/
drop index i_defsubpartlob$
/
create unique index i_defsubpartlob$ on defsubpartlob$
(bo#, intcol#, spart_position)
/

Rem end make partitioning indexes unique

Rem ====================================================================
Rem Begin (bug 4186885): sync partition numbers for overflow partitions
Rem                      with base table partitions
Rem ====================================================================

merge into sys.tabpart$ tp0 using
(select ovfl_parts.tp_obj# obj#, base_parts.tp_part# part#
```

```
from
(select row_number() over (partition by tp.bo# order by tp.part#) tp_rank#,
  tp.part# tp_part#, tp.obj# tp_obj#, t.bobj# t_bobj#, t.obj# t_obj#
  from sys.tabpart$ tp, sys.tab$ t
  where tp.bo# = t.obj# and to_number(bitand(t.property,544))=544) ovfl_parts,
(select row_number() over (partition by tp.bo# order by tp.part#) tp_rank#,
  tp.part# tp_part#, t.bobj# t_bobj#, t.obj# t_obj#
  from sys.tabpart$ tp, sys.tab$ t
  where tp.bo# = t.obj# and to_number(bitand(t.property,224))=224) base_parts
where
ovfl_parts.t_bobj#   = base_parts.t_obj#   and
base_parts.t_bobj#   = ovfl_parts.t_obj#   and
base_parts.tp_part# != ovfl_parts.tp_part# and
ovfl_parts.tp_rank#  = base_parts.tp_rank#) tp1
on (tp1.obj# = tp0.obj#)
when matched then
update set tp0.part# = tp1.part#;

commit;

Rem ========================================================================
Rem  End (bug 4186885)
Rem ========================================================================



Rem BEGIN Transparent Column Encryption

create table enc$ (
  obj#    number,                                    /* table object number */
  owner#  number,                          /* user id of the master key owner */
  mkeyid  varchar2(64),                           /* global id of master key */
  encalg  number,                                 /* encryption algorithm id */
  intalg  number,                                  /* integrity algorithm id */
  colklc  raw(2000),                                   /* column key locator */
  klclen  number,                                   /* length of key locator */
  flag    number                                                    /* flag */
)
/

create unique index enc_idx on enc$(obj#, owner#)
/
Rem END Transparent Column Encryption

Rem Change notification related dictionary tables
create table invalidation_registry$ (
  regid   number,
  regflags NUMBER,
  numobjs number,
  objarray  RAW(512),
  plsqlcallback varchar2(128),
  changelag number,
  username varchar2(30)
)
/
create index i_invalidation_registry$ on invalidation_registry$(regid)
/
create sequence invalidation_reg_id$          /* registration sequence number */
```

```
  start with 1
  increment by 1
  minvalue 1
  nomaxvalue
  cache 20
  order
  nocycle
/
Rem End Change notification related dictionary tables


Rem #(3350342) Secondary modification info table with partition rollup

create table mon_mods_all$
(
  obj#              number,                                 /* object number */
  inserts           number,  /* approx. number of inserts since last analyze */
  updates           number,  /* approx. number of updates since last analyze */
  deletes           number,  /* approx. number of deletes since last analyze */
  timestamp         date,     /* timestamp of last time this row was changed */
  flags             number,                                          /* flags */
                                        /* 0x01 object has been truncated */
  drop_segments     number   /* number of segemnt in part/subpartition table */
)
  storage (initial 200K next 100k maxextents unlimited pctincrease 0)
/
create unique index i_mon_mods_all$_obj on mon_mods_all$(obj#)
  storage (maxextents unlimited)
/

Rem=========================================================================
Rem Begin bug 4318925 fix
DECLARE
  EXTENT_MANAGEMENT VARCHAR2(10);
BEGIN
  select EXTENT_MANAGEMENT into EXTENT_MANAGEMENT
 from dba_tablespaces where tablespace_name='SYSTEM';
  IF (EXTENT_MANAGEMENT <> 'LOCAL') THEN
     EXECUTE IMMEDIATE
      'alter table ncomp_dll$ modify lob (dll) ' ||
        '(storage (next 1m maxextents unlimited pctincrease 0))';
  END IF;
END;
/
Rem End   bug 4318925 fix
Rem=========================================================================
Rem
Rem update array_index col name to sys_nc_array_index$ for octs

update col$ c set c.name='SYS_NC_ARRAY_INDEX$'
  where c.name = 'ARRAY_INDEX' and c.col#=0 and c.intcol#=1 and
    bitand(c.property, 32) = 32 and c.obj# in (select n.ntab# from ntab$ n)
/

commit;

Rem=========================================================================
Rem Add changes to other SYS dictionary objects here
```

```
Rem     (created in catproc.sql scripts)
Rem=========================================================================

Rem ------------------------------------------------
Rem  XMLAgg and XMLSequence related changes - BEGIN
Rem ------------------------------------------------

drop type AggXMLInputType FORCE;

-- the following 5 privileges were not in 8.17 or 9.01

BEGIN
  EXECUTE IMMEDIATE 'REVOKE EXECUTE ON XMLAGG FROM PUBLIC';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -04042, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/

BEGIN
  EXECUTE IMMEDIATE 'REVOKE EXECUTE ON AggXMLImp FROM PUBLIC';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -04042, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/

BEGIN
  EXECUTE IMMEDIATE 'REVOKE EXECUTE ON XMLSeq_Imp_t FROM PUBLIC';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -04042, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/

BEGIN
  EXECUTE IMMEDIATE 'REVOKE EXECUTE ON XMLSeqCur_Imp_t FROM PUBLIC';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -04042, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/

BEGIN
  EXECUTE IMMEDIATE 'REVOKE EXECUTE ON XMLSeqCur2_Imp_t FROM PUBLIC';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -04042, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
```

```
END;
/

Rem ------------------------------------------------
Rem  XMLAgg and XMLSequence related changes - END
Rem ------------------------------------------------



Rem
Rem Metadata API changes
Rem Make sys.utl_xml private (PL/SQL wrapper to CORE's C-based XML/XSL
Rem processor). Drop public synonym and revoke grants.
Rem
drop public synonym utl_xml;

-- Grant was to PUBLIC in 9.01 and 9.20
BEGIN
  EXECUTE IMMEDIATE 'REVOKE EXECUTE ON utl_xml FROM PUBLIC';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -04042, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/

-- Grant was to EXECUTE_CATALOG_ROLE in 10.1
BEGIN
  EXECUTE IMMEDIATE 'REVOKE EXECUTE ON utl_xml FROM EXECUTE_CATALOG_ROLE';
EXCEPTION
  WHEN OTHERS THEN
    IF SQLCODE IN ( -04042, -1927 ) THEN NULL;
    ELSE RAISE;
    END IF;
END;
/

Rem
Rem End Metadata API changes
Rem

Rem=========================================================================
Rem upgrade rules engine objects
Rem=========================================================================
Rem Begin Scheduler Upgrade
Rem=========================================================================

ALTER TABLE sys.scheduler$_job ADD (
  queue_owner     varchar2(30),
  queue_name      varchar2(30),
  queue_agent     varchar2(30),
  event_rule      varchar2(65),
  mxdur_msgid     raw(16));

ALTER TABLE sys.scheduler$_schedule ADD (
  queue_owner     varchar2(30),
  queue_name      varchar2(30),
  queue_agent     varchar2(30));
```

```
ALTER TABLE sys.scheduler$_global_attribute ADD (
  attr_tstamp     timestamp with time zone,
  attr_intv       interval day(3) to second(0));



Rem=========================================================================
Rem End Scheduler Upgrade
Rem=========================================================================


Rem=========================================================================
Rem Add changes to other SYS dictionary objects here
Rem     (created in catproc.sql scripts)
Rem=========================================================================
alter table rule$ add (uactx_client varchar2(30));


Rem ========================================================================
Rem PLSQL_TRACE_EVENTS is an optionally-present table, created by tracetab.sql.
Rem Add fields added for bug 4180912, if not already present.  Table not found
Rem or fields already present are possible, and should just be ignored.
Rem Note - these fields are deliberately not dropped on downgrade, since bug
Rem txn might have been backported and their presence won't harm anything.
Rem ========================================================================
alter table sys.plsql_trace_events add
(
-- Fields from dbms_application_info, dbms_session, and ECID
  module          varchar2(4000),
  action          varchar2(4000),
  client_info     varchar2(4000),
  client_id       varchar2(4000),
  ecid_id         varchar2(4000),
  ecid_seq        number,
--
--
-- Fields for extended callstack and errorstack info
--  (currently set only for "Exception raised" events)
--
  callstack       clob,
  errorstack      clob
);


Rem ========================================================================
Rem AQ related upgade
Rem ========================================================================
ALTER TYPE sys.msg_prop_t add attribute (delivery_mode NUMBER) CASCADE;

ALTER TYPE sys.aq$_srvntfn_message
ADD ATTRIBUTE (delivery_mode NUMBER, ntfn_flags NUMBER) CASCADE;

Rem =========================
Rem Begin STS schema changes
Rem =========================

-- in R2, wri$_sqlset_definitions stores owner names case-sensitively
```

```
-- make a best effort to convert case-insensitive R1 names into case-sensitive
-- R2 names
BEGIN
  EXECUTE IMMEDIATE
    'UPDATE wri$_sqlset_definitions set owner = ' ||
         ' (select name from user$ u1 where upper(u1.name) = owner) ' ||
         '  where ' ||
            '(select count(*) from user$ u2 ' ||
            ' where upper(u2.name) = owner) = 1';
EXCEPTION
   WHEN OTHERS THEN
     IF (SQLCODE = -942) THEN
       NULL;
     ELSE
       RAISE;
     END IF;
END;
/

-- SQL tuning set names are also now unique by (name,owner) rather than
-- just by name (the index is re-created in catsqlt)

BEGIN
  EXECUTE IMMEDIATE
    'drop index wri$_sqlset_definitions_idx_01';
EXCEPTION
  WHEN OTHERS THEN
    IF (SQLCODE = -1418) THEN
      NULL;
    ELSE
      RAISE;
    END IF;
END;
/

-- We will need to migrate data from the 10gR1 versions of the statements
-- and binds tables into a 10gR2 version.  We rename the R1 versions of the
-- tables here, and then in a1001000 we move the data from the R1 version to
-- the R2 version (after first detecting the re-run case)

DECLARE
  already_r2 NUMBER;
BEGIN
  already_r2 := 0;

  -- Check to see if the data migration has already been done
  --  in R2 we have no buffer gets column in the statements table
  select DECODE(count(*),
                0, 1,
                0)
  into   already_r2
  from   dba_tab_columns
  where  owner = 'SYS' and table_name = 'WRI$_SQLSET_STATEMENTS' AND
         column_name = 'BUFFER_GETS';

  IF (already_r2 = 0) THEN
    EXECUTE IMMEDIATE 'ALTER TABLE wri$_sqlset_statements RENAME TO '  ||
                      ' wri$_sqlset_statements_10gR1';
```

```
    EXECUTE IMMEDIATE 'ALTER TABLE wri$_sqlset_statements_10gR1 '      ||
                      ' RENAME CONSTRAINT wri$_sqlset_statements_pk '  ||
                      ' TO wri$_sqlset_stmts_pk_10gR1';

    BEGIN
      EXECUTE IMMEDIATE 'ALTER INDEX wri$_sqlset_statements_pk '       ||
                        ' RENAME TO wri$_sqlset_stmts_pk_10gR1';
      EXCEPTION
        WHEN OTHERS THEN
          IF (SQLCODE = -1418) THEN
            NULL;
          ELSE
            RAISE;
          END IF;
    END;

    EXECUTE IMMEDIATE 'ALTER TABLE wri$_sqlset_binds '                 ||
                      ' RENAME TO wri$_sqlset_binds_10gR1';
    EXECUTE IMMEDIATE 'ALTER TABLE wri$_sqlset_binds_10gR1 '           ||
                      ' RENAME CONSTRAINT wri$_sqlset_binds_pk '       ||
                      ' TO wri$_sqlset_binds_pk_10gR1';
    BEGIN
      EXECUTE IMMEDIATE 'ALTER INDEX wri$_sqlset_binds_pk '            ||
                        ' RENAME TO wri$_sqlset_binds_pk_10gR1';
      EXCEPTION
        WHEN OTHERS THEN
          IF (SQLCODE = -1418) THEN
            NULL;
          ELSE
            RAISE;
          END IF;
    END;

    END IF; -- if the schema is in its R2 format we dont need to do anything
END;
/

Rem ========================
Rem End STS schema changes
Rem ========================

Rem ============================
Rem Begin sqltune schema changes
Rem ============================
ALTER TABLE wri$_adv_sqlt_statistics ADD (direct_writes NUMBER)
/

--
-- in R1 the wri$_adv_sqlt_rtn_plan table had the same name as its constraint
--

ALTER TABLE wri$_adv_sqlt_rtn_plan RENAME CONSTRAINT wri$_adv_sqlt_rtn_plan TO wri$_adv_sqlt_rtn_plan_pk
/

BEGIN
  EXECUTE IMMEDIATE 'ALTER INDEX wri$_adv_sqlt_rtn_plan '            ||
                    'RENAME TO wri$_adv_sqlt_rtn_plan_pk';
  EXCEPTION
```

```
    WHEN OTHERS THEN
      IF (SQLCODE = -1418) THEN
        NULL;
      ELSE
        RAISE;
      END IF;
END;
/

Rem ============================
Rem End sqltune schema changes
Rem ============================

Rem
Rem Bugfix# 3431498
Rem
drop public synonym extract;
drop operator extract;
drop public synonym existsnode;
drop operator existsnode;

Rem=============
Rem AWR Changes
Rem=============

-- Turn ON the event to disable the partition check
alter session set events  '14524 trace name context forever, level 1';

-- these types are obsoleted
drop type NUM_ARY force;
drop type VCH_ARY force;
drop type CLB_ARY force;

-- Drop these AWR report types so they will be recreated when catalog is run
drop type AWRRPT_ROW_TYPE force;
drop type AWRRPT_TEXT_TYPE_TABLE force;
drop type AWRRPT_TEXT_TYPE force;
drop type AWRRPT_HTML_TYPE_TABLE force;
drop type AWRRPT_HTML_TYPE force;
drop type AWRDRPT_TEXT_TYPE_TABLE force;
drop type AWRDRPT_TEXT_TYPE force;

-- drop the WRH$_SQLBIND and associate BL table.  This
-- table has been replaced by WRH$_SQL_BIND_METADATA
-- and the BIND_DATA column in WRH$_SQLSTAT.
drop table WRH$_SQLBIND;
drop table WRH$_SQLBIND_BL;

drop table WRH$_CLASS_CACHE_TRANSFER;
drop table WRH$_CLASS_CACHE_TRANSFER_BL;

-- add and rename columns to WRH$_SQLSTAT and WRH$_SQLSTAT_BL
alter table WRH$_SQLSTAT    add PX_SERVERS_EXECS_TOTAL   number;
alter table WRH$_SQLSTAT    add PX_SERVERS_EXECS_DELTA   number;
alter table WRH$_SQLSTAT    add FORCE_MATCHING_SIGNATURE number;
alter table WRH$_SQLSTAT    add PARSING_SCHEMA_NAME      varchar2(30);
alter table WRH$_SQLSTAT    add BIND_DATA                raw(2000);
alter table WRH$_SQLSTAT    add FLAG                     number;
```

```
alter table WRH$_SQLSTAT_BL add PX_SERVERS_EXECS_TOTAL   number;
alter table WRH$_SQLSTAT_BL add PX_SERVERS_EXECS_DELTA   number;
alter table WRH$_SQLSTAT_BL add FORCE_MATCHING_SIGNATURE number;
alter table WRH$_SQLSTAT_BL add PARSING_SCHEMA_NAME      varchar2(30);
alter table WRH$_SQLSTAT_BL add BIND_DATA                raw(2000);
alter table WRH$_SQLSTAT_BL add FLAG                     number;

-- bump up size of optimizer env column
alter table WRH$_OPTIMIZER_ENV  modify (OPTIMIZER_ENV raw(1000));

-- add and rename columns to WRH$_SEG_STAT and WRH$_SEG_STAT_BL
alter table WRH$_SEG_STAT add GC_BUFFER_BUSY_TOTAL number;
alter table WRH$_SEG_STAT add GC_BUFFER_BUSY_DELTA number;
alter table WRH$_SEG_STAT
  rename column GC_CR_BLOCKS_SERVED_TOTAL to GC_CR_BLOCKS_RECEIVED_TOTAL;
alter table WRH$_SEG_STAT
  rename column GC_CR_BLOCKS_SERVED_DELTA to GC_CR_BLOCKS_RECEIVED_DELTA;
alter table WRH$_SEG_STAT
  rename column GC_CU_BLOCKS_SERVED_TOTAL to GC_CU_BLOCKS_RECEIVED_TOTAL;
alter table WRH$_SEG_STAT
  rename column GC_CU_BLOCKS_SERVED_DELTA to GC_CU_BLOCKS_RECEIVED_DELTA;
alter table WRH$_SEG_STAT add chain_row_excess_total number;
alter table WRH$_SEG_STAT add chain_row_excess_delta number;

alter table WRH$_SEG_STAT_BL add GC_BUFFER_BUSY_TOTAL number;
alter table WRH$_SEG_STAT_BL add GC_BUFFER_BUSY_DELTA number;
alter table WRH$_SEG_STAT_BL
  rename column GC_CR_BLOCKS_SERVED_TOTAL to GC_CR_BLOCKS_RECEIVED_TOTAL;
alter table WRH$_SEG_STAT_BL
  rename column GC_CR_BLOCKS_SERVED_DELTA to GC_CR_BLOCKS_RECEIVED_DELTA;
alter table WRH$_SEG_STAT_BL
  rename column GC_CU_BLOCKS_SERVED_TOTAL to GC_CU_BLOCKS_RECEIVED_TOTAL;
alter table WRH$_SEG_STAT_BL
  rename column GC_CU_BLOCKS_SERVED_DELTA to GC_CU_BLOCKS_RECEIVED_DELTA;
alter table WRH$_SEG_STAT_BL add chain_row_excess_total number;
alter table WRH$_SEG_STAT_BL add chain_row_excess_delta number;

-- add new timestamp column to wrh$_sql_plan
alter table sys.wrh$_sql_plan add (timestamp date);

-- add new other_xml column to wrh$_sql_plan
alter table sys.wrh$_sql_plan add (other_xml clob);

-- increase size of the object_node column in wrh$_sql_plan
alter table sys.wrh$_sql_plan modify (object_node varchar2(128));

-- increase size of the pool column in wrh$_sgastat_bl
alter table sys.wrh$_sgastat_bl modify (pool varchar2(12));

-- reorganize primary key
alter table WRH$_SEG_STAT
  drop constraint WRH$_SEG_STAT_PK;
alter table WRH$_SEG_STAT
  add  constraint WRH$_SEG_STAT_PK
    PRIMARY KEY (dbid, snap_id, instance_number, obj#, dataobj#)
    using index local tablespace SYSAUX;
```

```
alter table WRH$_SEG_STAT_BL
  drop constraint WRH$_SEG_STAT_BL_PK;
alter table WRH$_SEG_STAT_BL
  add  constraint WRH$_SEG_STAT_BL_PK
    PRIMARY KEY (dbid, snap_id, instance_number, obj#, dataobj#)
    using index tablespace SYSAUX;

alter table WRH$_SEG_STAT_OBJ
  drop constraint WRH$_SEG_STAT_OBJ_PK;
alter table WRH$_SEG_STAT_OBJ
  add  constraint WRH$_SEG_STAT_OBJ_PK
    PRIMARY KEY (dbid, obj#, dataobj#)
    using index tablespace SYSAUX;

alter table WRH$_SEG_STAT_OBJ
  add ( index_type           varchar2(27)
      , base_obj#            number
      , base_object_name     varchar2(30)
      , base_object_owner    varchar2(30) );

alter table WRH$_CURRENT_BLOCK_SERVER
  drop constraint WRH$_CURRENT_BLOCK_SERVER_PK;
alter table WRH$_CURRENT_BLOCK_SERVER
  add  constraint WRH$_CURRENT_BLOCK_SERVER_PK
    PRIMARY KEY (dbid, snap_id, instance_number)
    using index tablespace SYSAUX;

alter table WRM$_SNAP_ERROR
  drop constraint WRM$_SNAP_ERROR_PK;
alter table WRM$_SNAP_ERROR
  add  constraint WRM$_SNAP_ERROR_PK
    PRIMARY KEY (dbid, snap_id, instance_number, table_name)
    using index tablespace SYSAUX;

Rem
Rem Clean up the duplicate metrics data from the previous release
Rem Disabled until we add constraints to the metrics tables.
Rem
Rem DECLARE
Rem  PROCEDURE exec_delete(table_name IN VARCHAR2,
Rem                        metric_cols IN VARCHAR2) IS
Rem    pkcols           VARCHAR2(100);
Rem    sqlstr           VARCHAR2(1000);
Rem    table_not_exist  EXCEPTION;
Rem    PRAGMA exception_init(table_not_exist, -942);
Rem  BEGIN
Rem    -- set up the PK columns
Rem    pkcols := 'dbid, snap_id, instance_number, ' || metric_cols;
Rem    -- set up the SQL string
Rem    sqlstr := 'delete from ' || table_name ||
Rem                ' where (' || pkcols || ')' ||
Rem                ' in (select ' || pkcols ||
Rem                    ' from ' || table_name ||
Rem                    ' group by ' || pkcols ||
Rem                    ' having count(*) > 1)';
Rem
Rem    execute immediate sqlstr;
Rem    commit;
```

```
Rem  EXCEPTION
Rem    WHEN table_not_exist THEN null;
Rem  END;
Rem BEGIN
Rem   exec_delete('WRH$_SYSMETRIC_HISTORY', 'group_id, metric_id, begin_time');
Rem   exec_delete('WRH$_SYSMETRIC_SUMMARY', 'group_id, metric_id');
Rem   exec_delete('WRH$_SESSMETRIC_HISTORY',
Rem               'group_id, sessid, metric_id, begin_time');
Rem   exec_delete('WRH$_FILEMETRIC_HISTORY', 'group_id, fileid, begin_time');
Rem   exec_delete('WRH$_WAITCLASSMETRIC_HISTORY',
Rem               'group_id, wait_class_id, begin_time');
Rem END;
Rem /

Rem
Rem Add indexes to metrics tables
Rem

DECLARE
 PROCEDURE exec_addindex(table_name IN VARCHAR2,
                         index_name IN VARCHAR2,
                         metric_cols IN VARCHAR2) IS
   index_cols       VARCHAR2(100);
   sqlstr           VARCHAR2(1000);
   table_not_exist  EXCEPTION;
   PRAGMA exception_init(table_not_exist, -942);
 BEGIN
   -- add the common columns
   index_cols := 'dbid, snap_id, instance_number, ' || metric_cols;
   -- set up the SQL string
   sqlstr := 'create index '|| index_name ||
             ' on '         || table_name ||
             '('            || index_cols ||
             ') tablespace SYSAUX';
   execute immediate sqlstr;
   commit;
 EXCEPTION
   WHEN table_not_exist THEN null;
 END;
BEGIN
  exec_addindex('WRH$_SYSMETRIC_HISTORY', 'WRH$_SYSMETRIC_HISTORY_INDEX',
                'group_id, metric_id, begin_time');
  exec_addindex('WRH$_SYSMETRIC_SUMMARY', 'WRH$_SYSMETRIC_SUMMARY_INDEX',
                'group_id, metric_id');
  exec_addindex('WRH$_SESSMETRIC_HISTORY', 'WRH$_SESSMETRIC_HISTORY_INDEX',
               'group_id, sessid, metric_id, begin_time');
  exec_addindex('WRH$_FILEMETRIC_HISTORY', 'WRH$_FILEMETRIC_HISTORY_INDEX',
                'group_id, fileid, begin_time');
  exec_addindex('WRH$_WAITCLASSMETRIC_HISTORY', 'WRH$_WAITCLASSMETRIC_HIST_IND',
                'group_id, wait_class_id, begin_time');
END;
/

Rem
Rem Add blocking_session_serial#, force_matching_signature to
Rem WRH$_ACTIVE_SESSION_HISTORY, WRH$_ACTIVE_SESSION_HISTORY_BL
Rem Add blocking_session,xid to WRH$_ACTIVE_SESSION_HISTORY and its _BL
Rem Modify program to be varchar2(64)
```

```
Rem

alter table WRH$_ACTIVE_SESSION_HISTORY add (force_matching_signature NUMBER);
alter table WRH$_ACTIVE_SESSION_HISTORY add (blocking_session         NUMBER);
alter table WRH$_ACTIVE_SESSION_HISTORY add (blocking_session_serial# NUMBER);
alter table WRH$_ACTIVE_SESSION_HISTORY add (xid                      RAW(8));

alter table WRH$_ACTIVE_SESSION_HISTORY_BL add (force_matching_signature NUMBER);
alter table WRH$_ACTIVE_SESSION_HISTORY_BL add (blocking_session         NUMBER);
alter table WRH$_ACTIVE_SESSION_HISTORY_BL add (blocking_session_serial# NUMBER);
alter table WRH$_ACTIVE_SESSION_HISTORY_BL add (xid                      RAW(8));

alter table WRH$_ACTIVE_SESSION_HISTORY    modify (program  VARCHAR2(64));
alter table WRH$_ACTIVE_SESSION_HISTORY_BL modify (program  VARCHAR2(64));

Rem
Rem Add P1, P2, P3 columns to WRH$_EVENT_NAME
Rem
alter table WRH$_EVENT_NAME add (PARAMETER1 varchar2(64));
alter table WRH$_EVENT_NAME add (PARAMETER2 varchar2(64));
alter table WRH$_EVENT_NAME add (PARAMETER3 varchar2(64));

alter table WRH$_UNDOSTAT ADD (status NUMBER DEFAULT 0);
alter table WRH$_UNDOSTAT ADD (spcprs_retention NUMBER DEFAULT 0);
alter table WRH$_UNDOSTAT ADD (runawayquerysqlid varchar2(13) DEFAULT NULL);

Rem
Rem Add the Top N SQL column to the WRM$_WR_CONTROL table
Rem and set the the Top N SQL column to the Default value.
Rem
alter table WRM$_WR_CONTROL add (TOPNSQL number);
BEGIN
  execute immediate 'update WRM$_WR_CONTROL set TOPNSQL = 2000000000';
  commit;
EXCEPTION
  WHEN OTHERS THEN
    IF (SQLCODE = -942) THEN
      NULL;
    ELSE
      RAISE;
    END IF;
END;
/


Rem =====================================================
Rem ==  Update the SWRF_VERSION to the current version.  ==
Rem ==           (10gR2 = SWRF Version 2)                ==
Rem ==  This step must be the last step for the AWR      ==
Rem ==  upgrade changes.  Place all other AWR upgrade    ==
Rem ==  changes above this.                              ==
Rem =====================================================

BEGIN
  EXECUTE IMMEDIATE 'UPDATE wrm$_wr_control SET swrf_version = 2';
  COMMIT;
EXCEPTION
  WHEN OTHERS THEN
```

```
    IF (SQLCODE = -942) THEN
      NULL;
    ELSE
      RAISE;
    END IF;
END;
/

-- Turn OFF the event to disable the partition check for AWR
alter session set events  '14524 trace name context off';

-- truncate obsoleted Scheduler chains data if present
-- these tables are no longer created or used in 10.2 and up
-- their use was never supported in 10.1
BEGIN
EXECUTE IMMEDIATE 'delete from sys.obj$ where obj# in ' ||
 '(select obj# from sys.scheduler$_job_chain)';
EXCEPTION
   WHEN OTHERS THEN
      IF SQLCODE = -942 THEN NULL;
      ELSE RAISE;
      END IF;
END;
/
DECLARE
  PROCEDURE execute_truncate(table_name IN VARCHAR2) IS
    no_such_table  EXCEPTION;
    PRAGMA exception_init(no_such_table, -942);
  BEGIN
    execute immediate 'truncate table ' || table_name;
  EXCEPTION
    WHEN no_such_table THEN null;
  END;
BEGIN
  execute_truncate('sys.scheduler$_job_chain');
  execute_truncate('sys.scheduler$_chain_varlist');
  execute_truncate('sys.scheduler$_job_step_state');
  execute_truncate('sys.scheduler$_job_step');
END;
/

-- name column of table scheduler$_event_log has an increased length
ALTER TABLE scheduler$_event_log MODIFY name varchar2(65);

--  datatype change for cpu_used
BEGIN
EXECUTE IMMEDIATE 'UPDATE sys.scheduler$_job_run_details SET cpu_used = NULL';
EXCEPTION
   WHEN OTHERS THEN
      IF SQLCODE = -942 THEN NULL;
      ELSE RAISE;
      END IF;
END;
/

COMMIT;

ALTER TABLE sys.scheduler$_job_run_details MODIFY
```

```
(
  cpu_used        interval day(3) to second(2)
);




Rem=========================================================================
Rem  Add changes to SYSTEM dictionary objects here
Rem=========================================================================

UPDATE sys.aq$_propagation_status set destqueue_id = 0;

ALTER TABLE sys.aq$_propagation_status
DROP CONSTRAINT aq$_propagation_status_primary;

ALTER TABLE sys.aq$_propagation_status
ADD CONSTRAINT aq$_propagation_status_primary
PRIMARY KEY (queue_id, destination,destqueue_id);

ALTER TABLE sys.aq$_propagation_status
MODIFY (destqueue_id DEFAULT 0);

-- drop any index on the event_time column of logstdby$events table
declare
  ind_name varchar2(30) := null;
  ind_owner varchar2(30) := null;

begin
 begin
  select index_owner, index_name into ind_owner, ind_name
  from dba_ind_columns
  where table_name  = 'LOGSTDBY$EVENTS' and
        table_owner = 'SYSTEM' and
        column_name = 'EVENT_TIME';
exception
  when others then
     ind_name := null;
 end;

 if (ind_name is not null) then
   execute immediate 'drop index ' || ind_owner || '.' || ind_name;
 end if;
end;
/

-- drop an index added in 9.2.0.7, logmnr_log$_active.
-- no longer needed because the primary key is sufficient in 10g
begin
  execute immediate 'drop index system.logmnr_log$_active';
exception
   when others then
      if sqlcode = -1418 then null;
      else raise;
      end if;
end;
/
```

```
 -- change the datatype of column event_time in logstdby$events
alter table system.logstdby$events modify (event_time timestamp);
 -- add columns to logstdby$apply_milestone
alter table system.logstdby$apply_milestone
     add (commit_time date, processed_time date);
 -- add column to logstdby$apply_progress
alter table system.logstdby$apply_progress add (commit_time date);


Rem=========================================================================
Rem Begin SQL Response Time upgrade items
Rem=========================================================================

drop table dbsnmp.mgmt_response_v$sql_snapshot;
drop table dbsnmp.mgmt_response_baseline;
drop table dbsnmp.mgmt_response_capture;
drop table dbsnmp.mgmt_response_config;
drop table dbsnmp.mgmt_response_tempt;
drop sequence dbsnmp.mgmt_response_capture_id;
drop sequence dbsnmp.mgmt_response_snapshot_id;

Rem=========================================================================
Rem Begin SQL Response Time upgrade items
Rem=========================================================================


Rem ========================================================================
Rem Upgrade system types to 10.2
Rem ========================================================================
Rem Evolve Type sys.aq$_reg_info

ALTER TYPE sys.aq$_reg_info
ADD ATTRIBUTE(qosflags NUMBER, payloadcbk  VARCHAR2(4000), timeout NUMBER)
CASCADE;

ALTER TYPE sys.aq$_reg_info ADD CONSTRUCTOR FUNCTION aq$_reg_info(
  name              VARCHAR2,
  namespace         NUMBER,
  callback          VARCHAR2,
  context           RAW,
  anyctx            SYS.ANYDATA,
  ctxtype           NUMBER)
RETURN SELF AS RESULT CASCADE;

ALTER TYPE sys.aq$_reg_info ADD CONSTRUCTOR FUNCTION aq$_reg_info(
  name              VARCHAR2,
  namespace         NUMBER,
  callback          VARCHAR2,
  context           RAW,
  qosflags          NUMBER,
  timeout           NUMBER)
RETURN SELF AS RESULT CASCADE;

ALTER TYPE sys.aq$_event_message MODIFY ATTRIBUTE
(sub_name VARCHAR2(128), queue_name VARCHAR2(65)) CASCADE
/

ALTER TYPE sys.aq$_srvntfn_message MODIFY ATTRIBUTE
```

```
queue_name VARCHAR2(65) CASCADE
/
-- create type for storing generic ntfn descriptor for plsql notification
-- and add the type as an atribute to aq$_descriptor
CREATE or replace TYPE sys.aq$_ntfn_descriptor AS OBJECT (
        ntfn_flags         number)                     -- flags
/
ALTER TYPE sys.aq$_descriptor
  ADD ATTRIBUTE(gen_desc sys.aq$_ntfn_descriptor)
  CASCADE
/
Rem ========================================================================
Rem  All additions/modifications to lcr$_{row,ddl}_record must go here.
Rem ========================================================================

ALTER TYPE lcr$_row_record ADD MEMBER FUNCTION
   get_source_time RETURN DATE CASCADE;

ALTER TYPE lcr$_ddl_record ADD MEMBER FUNCTION
   get_source_time RETURN DATE CASCADE;
Rem Evolve Type sys.aq$_reg_info

Rem Change notification types
create or replace type sys.chnf$_reg_info_oc4j as object (
       network_ip_address varchar2(128),
       network_port number,
       qosflags number,
       timeout number,
       operations_filter number,
       transaction_lag number)
/

create or replace type sys.chnf$_reg_info as object (
       callback varchar2(64),
       qosflags number,
       timeout number,
       operations_filter number,
       transaction_lag number)
/

create or replace type chnf$_rdesc as object(
   opflags number,
   row_id varchar2(2000))
/

create or replace type chnf$_rdesc_array as VARRAY(1024) of chnf$_rdesc
/

create or replace type chnf$_tdesc as object(
   opflags number,
   table_name varchar2(64),
   numrows number,
   row_desc_array chnf$_rdesc_array)
/

create or replace type chnf$_tdesc_array as VARRAY(1024) of chnf$_tdesc
/
```

```
create or replace type chnf$_desc as object(
   registration_id number,
   transaction_id  raw(8),
   dbname          varchar2(30),
   event_type      number,
   numtables       number,
   table_desc_array   chnf$_tdesc_array)
/



GRANT EXECUTE on chnf$_reg_info_oc4j to PUBLIC;
/
GRANT EXECUTE on chnf$_reg_info to PUBLIC;
/
GRANT EXECUTE on chnf$_desc to PUBLIC;
/
GRANT EXECUTE on chnf$_tdesc to PUBLIC;
/
GRANT EXECUTE on chnf$_rdesc to PUBLIC;

Rem End change notification types

CREATE OR REPLACE LIBRARY UPGRADE_LIB TRUSTED AS STATIC
/

CREATE OR REPLACE PROCEDURE upgrade_system_types_from_101 IS
LANGUAGE C
NAME "UPG_FROM_101"
LIBRARY UPGRADE_LIB;
/

DROP PROCEDURE upgrade_system_types_from_101;

Rem ------------------------------
Rem  SQL Tuning Set type changes
Rem ------------------------------

-- We now store plans in the SQL tuning set, which means they are also
-- in the SQLSET_ROW.  We drop the type here and recreate it later in catsqlt.

DROP TYPE sqlset_row FORCE
/
DROP TYPE sqlset FORCE
/
DROP PUBLIC SYNONYM sqlset_row
/
DROP PUBLIC SYNONYM sqlset
/

Rem =====================
Rem Begin outline changes
Rem =====================

Rem  OUTLN user priv changes
revoke connect from outln;
grant create session to outln;

Rem Add hint_string to outln.ol$hints
```

```
alter table outln.ol$hints add (hint_string clob);

Rem Add hint_string to system.ol$hints
alter table system.ol$hints add (hint_string clob);

Rem ===================
Rem End outline changes
Rem ===================



Rem ========================
Rem Begin dbms_xplan changes
Rem ========================

alter type dbms_xplan_type modify attribute (plan_table_output varchar2(300)) cascade;

Rem ======================
Rem End dbms_xplan changes
Rem ======================

Rem ------------------------------
Rem  dbms_sched_main_export changes
Rem ------------------------------
revoke execute on dbms_sched_main_export from public;
drop public synonym dbms_sched_main_export;

Rem ----------------------------------------------------------------
Rem  3074260: Function-based indexes should use REF dependencies
Rem ----------------------------------------------------------------

update dependency$
  set property = 2
  where property = 1
    and d_obj# in (select obj# from ind$ i
                     where bitand(i.property, 16) = 16)
    and p_obj# in (select obj# from obj$ o where type# in (8,9));

Rem
Rem The table settings$ stores the persistent switches for all stored PL/SQL
Rem units. The plsql_ccflags switch did not exist in pre-10gR2 releases.
Rem The default value of plsql_ccflags is the empty string ''. We need to
Rem insert rows into the settings$ table so that each stored PL/SQL unit
Rem will have a row containing the empty string '' for the plsql_ccflags
Rem switch.
Rem
insert into settings$
  (select unique(obj#), 'plsql_ccflags', '' from settings$ MINUS
   select obj#, param, '' from settings$ where param = 'plsql_ccflags');
commit;

Rem=========================================================================
Rem END STAGE 1: upgrade from 10.1.0 to 10.2.0
Rem=========================================================================

Rem=========================================================================
Rem BEGIN STAGE 2: run the current release version of catalog and catproc
Rem=========================================================================
```

```
SELECT 'COMP_TIMESTAMP CATALG_BGN ' ||
        TO_CHAR(SYSTIMESTAMP,'YYYY-MM-DD HH24:MI:SS ') ||
        TO_CHAR(SYSTIMESTAMP,'J SSSSS ')
        AS timestamp FROM DUAL;
@@catalog
@@catproc

SELECT dbms_registry_sys.time_stamp('CATPROC') AS timestamp FROM DUAL;

Rem turn server output off in case catproc script leaves it on
set serveroutput off

Rem=========================================================================
Rem END STAGE 2: run the current release version of catalog and catproc
Rem=========================================================================

Rem=========================================================================
Rem BEGIN STAGE 3: Complete upgrade steps
Rem=========================================================================

Rem Run the remainder of the RDBMS upgrade in the "a" scripts

@@a&upgrade_file
SELECT dbms_registry_sys.time_stamp('rdbms_end') as timestamp from dual;

Rem Upgrade each of the components loaded into the database

@@cmpdbmig

Rem=========================================================================
Rem END STAGE 3: Complete upgrade steps
Rem=========================================================================

Rem When updating this script for the next release, move steps 2 and 3 to
Rem the next release script and uncomment the line below.

Rem @@c1002000

Rem*************************************************************************
Rem END c1001000.sql
Rem*************************************************************************
```