Oracle 12c – Recovering a lost /corrupted table from RMAN Backup after user error or application issue – Part1

Oracle 12c has automated table level recovery using RMAN. If you lose a table in a pluggable database after user error or get data destroyed because of user or application issue, you can easily restore and recover that table to point in time when issue happened using a single RMAN Command.

Recover table anuj.my\_jobs of pluggable database PDB1 until scn 1837963 auxiliary destination ' ';

**It is a lot easier in Oracle 12c.Below are the requirements for using RMAN table restore.**

1. Initialization parameter compatible is set to 12.0 or higher
2. Database is running in archive log mode
3. Control file auto backup is enabled before level 0 backup
4. RETENTION POLICY is set
5. Table should not be residing in system table space
6. Level 0 backup and all desired backups are available

**Some important Parameters for above recover command.**

DATAPUMP DESTINATION ' ’ 🡪 additional location if you want to keep your dump file somewhere other than auxiliary destination
DUMP FILE ‘xyz.dat' 🡪 Name of dump file
NOTABLEIMPORT 🡪 Use this switch if you do not want to import table in database in single command;
REMAP TABLE 🡪 If you want to import table data in different table.

**Demonstration**

1. Validate compatible is set

SQL> show parameter compatible

NAME TYPE VALUE

------------------------------------ ----------- ------------------------------

Compatible string 12.1.0.2.0

1. Validate archive log mode

SQL> archive log list

Database log mode Archive Mode

Automatic archival Enabled

Archive destination USE\_DB\_RECOVERY\_FILE\_DEST

Oldest online log sequence 68

Next log sequence to archive 70

Current log sequence 70

1. Validate controlfile auto backup and retention policy is set

[oracle@Anujhost ~]$ rman target /

Recovery Manager: Release 12.1.0.2.0 - Production on Sun Jan 18 15:54:16 2015

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connected to target database: CDB (DBID=1984616201)

RMAN> show all;

using target database control file instead of recovery catalog

RMAN configuration parameters for database with db\_unique\_name CDB are:

CONFIGURE RETENTION POLICY TO REDUNDANCY 1;

CONFIGURE BACKUP OPTIMIZATION OFF; # default

CONFIGURE DEFAULT DEVICE TYPE TO DISK; # default

CONFIGURE CONTROLFILE AUTOBACKUP ON;

CONFIGURE CONTROLFILE AUTOBACKUP FORMAT FOR DEVICE TYPE DISK TO '%F'; # default

CONFIGURE DEVICE TYPE DISK PARALLELISM 1 BACKUP TYPE TO BACKUPSET; # default

CONFIGURE DATAFILE BACKUP COPIES FOR DEVICE TYPE DISK TO 1; # default

CONFIGURE ARCHIVELOG BACKUP COPIES FOR DEVICE TYPE DISK TO 1; # default

CONFIGURE MAXSETSIZE TO UNLIMITED; # default

CONFIGURE ENCRYPTION FOR DATABASE OFF; # default

CONFIGURE ENCRYPTION ALGORITHM 'AES128'; # default

CONFIGURE COMPRESSION ALGORITHM 'BASIC' AS OF RELEASE 'DEFAULT' OPTIMIZE FOR LOAD TRUE ; # default

CONFIGURE RMAN OUTPUT TO KEEP FOR 7 DAYS; # default

CONFIGURE ARCHIVELOG DELETION POLICY TO NONE; # default

CONFIGURE SNAPSHOT CONTROLFILE NAME TO '/home/oracle/app/oracle/product/12.1.0/dbhome\_1/dbs/snapcf\_CDB.f'; # default

1. Create test data

sqlplus anuj/anuj@PDB1\_CDB

Connected.

14:49:36 SQL> @cr\_tbl.sql

Table created.

Elapsed: 00:00:00.11

1 row created.

Elapsed: 00:00:00.06

1 row created.

Elapsed: 00:00:00.02

1 row created.

Elapsed: 00:00:00.00

1 row created.

Elapsed: 00:00:00.01

Commit complete.

Elapsed: 00:00:00.01

 ID COMPANY

---------- --------------------------------------------------

 1 Airtel

 2 IBM

 3 Dell

 4 Data Intensity

Elapsed: 00:00:00.02

CURRENT\_SCN

-----------

 1837963

1. Take RMAN Backup

[oracle@Anujhost ~]$ rman target / log= Logfile /rman\_test/Recover\_tbl\_from\_PDB\_01182015

RMAN> backup pluggable database PDB1;

\*\*\* Earlier I had level 0 backup

1. Delete test data

SQL> 14:51:52 SQL> drop table my\_jobs purge;

Table dropped.

1. Recover table from RMAN Backup

RMAN> recover table anuj.my\_jobs of pluggable database PDB1 until scn 1837963 auxiliary destination '/rman\_test';

1. Validate if test data is restored

14:56:16 SQL> select \* frommy\_jobs;

 ID COMPANY

---------- --------------------------------------------------

 1 Airtel

 2 IBM

 3 Dell

 4 Data Intensity

14:56:19 SQL> select count(\*) from my\_jobs;

 COUNT(\*)

----------

4

So we recovered our table now the most interesting part is reviewing the log file and see how smartly all the process is automated here..

Starting backup at 18/jan/2015 14:52:16 **🡺 Running level0 backup**

using target database control file instead of recovery catalog

allocated channel: ORA\_DISK\_1

channel ORA\_DISK\_1: SID=43 device type=DISK

channel ORA\_DISK\_1: starting full datafile backup set

channel ORA\_DISK\_1: specifying datafile(s) in backup set

input datafile file number=00009 name=/rman\_test/CDB/0BC25B43A37C124BE055000000000001/datafile/o1\_mf\_sysaux\_bbj3q5ty\_.dbf

input datafile file number=00008 name=/rman\_test/CDB/0BC25B43A37C124BE055000000000001/datafile/o1\_mf\_system\_bbj3q5tn\_.dbf

input datafile file number=00011 name=/rman\_test/CDB/0BC25B43A37C124BE055000000000001/datafile/o1\_mf\_anuj\_bco3fy8l\_.dbf

input datafile file number=00010 name=/rman\_test/CDB/0BC25B43A37C124BE055000000000001/datafile/o1\_mf\_users\_bbj3rdfc\_.dbf

channel ORA\_DISK\_1: starting piece 1 at 18/jan/2015 14:52:20

channel ORA\_DISK\_1: finished piece 1 at 18/jan/2015 14:52:35

piece handle=/rman\_test/fast\_recovery\_area/CDB/0BC25B43A37C124BE055000000000001/backupset/2015\_01\_18/o1\_mf\_nnndf\_TAG20150118T145220\_bcr3qobz\_.bkp tag=TAG20150118T145220 comment=NONE

channel ORA\_DISK\_1: backup set complete, elapsed time: 00:00:15

Finished backup at 18/jan/2015 14:52:35

Starting Control File and SPFILE Autobackup at 18/jan/2015 14:52:36

piece handle=/rman\_test/fast\_recovery\_area/CDB/autobackup/2015\_01\_18/o1\_mf\_s\_869323956\_bcr3r4xt\_.bkp comment=NONE

Finished Control File and SPFILE Autobackup at 18/jan/2015 14:52:39

Starting recover at 18/jan/2015 14:55:48

current log archived

using channel ORA\_DISK\_1

RMAN-05026: WARNING: presuming following set of tablespaces applies to specified Point-in-Time

List of tablespaces expected to have UNDO segments

Tablespace SYSTEM

Tablespace UNDOTBS1

Creating automatic instance, with SID='nwxg'

initialization parameters used for automatic instance:

db\_name=CDB

db\_unique\_name=nwxg\_pitr\_PDB1\_CDB

compatible=12.1.0.2.0

db\_block\_size=8192

db\_files=200

diagnostic\_dest=/home/oracle/app/oracle

\_system\_trig\_enabled=FALSE

sga\_target=1264M

processes=200

db\_create\_file\_dest=/rman\_test

log\_archive\_dest\_1='location=/rman\_test'

enable\_pluggable\_database=true

\_clone\_one\_pdb\_recovery=true

#No auxiliary parameter file used

starting up automatic instance CDB

Oracle instance started

Total System Global Area 1325400064 bytes

Fixed Size 2924112 bytes

Variable Size 352321968 bytes

Database Buffers 956301312 bytes

Redo Buffers 13852672 bytes

Automatic instance created

contents of Memory Script:

{

# set requested point in time

set until scn 1837963;

# restore the controlfile

restore clone controlfile;

# mount the controlfile

sql clone 'alter database mount clone database';

# archive current online log

sql 'alter system archive log current';

}

executing Memory Script

executing command: SET until clause

Starting restore at 18/jan/2015 14:56:11

allocated channel: ORA\_AUX\_DISK\_1

channel ORA\_AUX\_DISK\_1: SID=7 device type=DISK

channel ORA\_AUX\_DISK\_1: starting datafile backup set restore

channel ORA\_AUX\_DISK\_1: restoring control file

channel ORA\_AUX\_DISK\_1: reading from backup piece /rman\_test/fast\_recovery\_area/CDB/autobackup/2015\_01\_17/o1\_mf\_s\_869230710\_bco8p6sq\_.bkp

channel ORA\_AUX\_DISK\_1: piece handle=/rman\_test/fast\_recovery\_area/CDB/autobackup/2015\_01\_17/o1\_mf\_s\_869230710\_bco8p6sq\_.bkp tag=TAG20150117T125830

channel ORA\_AUX\_DISK\_1: restored backup piece 1

channel ORA\_AUX\_DISK\_1: restore complete, elapsed time: 00:00:01

output file name=/rman\_test/CDB/controlfile/o1\_mf\_bcr3ywq0\_.ctl

Finished restore at 18/jan/2015 14:56:13

sql statement: alter database mount clone database

sql statement: alter system archive log current

contents of Memory Script:

{

# set requested point in time

set until scn 1837963;

# set destinations for recovery set and auxiliary set datafiles

set newname for clone datafile 1 to new;

set newname for clone datafile 4 to new;

set newname for clone datafile 3 to new;

set newname for clone datafile 8 to new;

set newname for clone datafile 9 to new;

set newname for clone tempfile 1 to new;

set newname for clone tempfile 3 to new;

# switch all tempfiles

switch clone tempfile all;

# restore the tablespaces in the recovery set and the auxiliary set

restore clone datafile 1, 4, 3, 8, 9;

switch clone datafile all;

}

executing Memory Script

executing command: SET until clause

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

executing command: SET NEWNAME

renamed tempfile 1 to /rman\_test/CDB/datafile/o1\_mf\_temp\_%u\_.tmp in control file

renamed tempfile 3 to /rman\_test/CDB/datafile/o1\_mf\_temp\_%u\_.tmp in control file

Starting restore at 18/jan/2015 14:56:20

using channel ORA\_AUX\_DISK\_1

channel ORA\_AUX\_DISK\_1: starting datafile backup set restore

channel ORA\_AUX\_DISK\_1: specifying datafile(s) to restore from backup set

channel ORA\_AUX\_DISK\_1: restoring datafile 00001 to /rman\_test/CDB/datafile/o1\_mf\_system\_%u\_.dbf

channel ORA\_AUX\_DISK\_1: restoring datafile 00004 to /rman\_test/CDB/datafile/o1\_mf\_undotbs1\_%u\_.dbf

channel ORA\_AUX\_DISK\_1: restoring datafile 00003 to /rman\_test/CDB/datafile/o1\_mf\_sysaux\_%u\_.dbf

channel ORA\_AUX\_DISK\_1: reading from backup piece /rman\_test/fast\_recovery\_area/CDB/backupset/2015\_01\_17/o1\_mf\_nnndf\_TAG20150117T125435\_bco8gw36\_.bkp

channel ORA\_AUX\_DISK\_1: piece handle=/rman\_test/fast\_recovery\_area/CDB/backupset/2015\_01\_17/o1\_mf\_nnndf\_TAG20150117T125435\_bco8gw36\_.bkp tag=TAG20150117T125435

channel ORA\_AUX\_DISK\_1: restored backup piece 1

channel ORA\_AUX\_DISK\_1: restore complete, elapsed time: 00:00:35

channel ORA\_AUX\_DISK\_1: starting datafile backup set restore

channel ORA\_AUX\_DISK\_1: specifying datafile(s) to restore from backup set

channel ORA\_AUX\_DISK\_1: restoring datafile 00008 to /rman\_test/CDB/datafile/o1\_mf\_system\_%u\_.dbf

channel ORA\_AUX\_DISK\_1: restoring datafile 00009 to /rman\_test/CDB/datafile/o1\_mf\_sysaux\_%u\_.dbf

channel ORA\_AUX\_DISK\_1: reading from backup piece /rman\_test/fast\_recovery\_area/CDB/0BC25B43A37C124BE055000000000001/backupset/2015\_01\_17/o1\_mf\_nnndf\_TAG20150117T125814\_bco8oq58\_.bkp

channel ORA\_AUX\_DISK\_1: piece handle=/rman\_test/fast\_recovery\_area/CDB/0BC25B43A37C124BE055000000000001/backupset/2015\_01\_17/o1\_mf\_nnndf\_TAG20150117T125814\_bco8oq58\_.bkp tag=TAG20150117T125814

channel ORA\_AUX\_DISK\_1: restored backup piece 1

channel ORA\_AUX\_DISK\_1: restore complete, elapsed time: 00:00:15

Finished restore at 18/jan/2015 14:57:11

datafile 1 switched to datafile copy

input datafile copy RECID=8 STAMP=869324232 file name=/rman\_test/CDB/datafile/o1\_mf\_system\_bcr3z5c7\_.dbf

datafile 4 switched to datafile copy

input datafile copy RECID=9 STAMP=869324232 file name=/rman\_test/CDB/datafile/o1\_mf\_undotbs1\_bcr3z5dk\_.dbf

datafile 3 switched to datafile copy

input datafile copy RECID=10 STAMP=869324232 file name=/rman\_test/CDB/datafile/o1\_mf\_sysaux\_bcr3z5d6\_.dbf

datafile 8 switched to datafile copy

input datafile copy RECID=11 STAMP=869324232 file name=/rman\_test/CDB/datafile/o1\_mf\_system\_bcr408r5\_.dbf

datafile 9 switched to datafile copy

input datafile copy RECID=12 STAMP=869324232 file name=/rman\_test/CDB/datafile/o1\_mf\_sysaux\_bcr408qh\_.dbf

contents of Memory Script:

{

# set requested point in time

set until scn 1837963;

# online the datafiles restored or switched

sql clone "alter database datafile 1 online";

sql clone "alter database datafile 4 online";

sql clone "alter database datafile 3 online";

sql clone 'PDB1' "alter database datafile

 8 online";

sql clone 'PDB1' "alter database datafile

 9 online";

# recover and open database read only

recover clone database tablespace "SYSTEM", "UNDOTBS1", "SYSAUX", "PDB1":"SYSTEM", "PDB1":"SYSAUX";

sql clone 'alter database open read only';

}

executing Memory Script

executing command: SET until clause

sql statement: alter database datafile 1 online

sql statement: alter database datafile 4 online

sql statement: alter database datafile 3 online

sql statement: alter database datafile 8 online

sql statement: alter database datafile 9 online

Starting recover at 18/jan/2015 14:57:13

using channel ORA\_AUX\_DISK\_1

starting media recovery

archived log for thread 1 with sequence 62 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_62\_bco8jyvp\_.arc

archived log for thread 1 with sequence 63 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_63\_bco8ltsp\_.arc

archived log for thread 1 with sequence 64 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_64\_bco8qgxz\_.arc

archived log for thread 1 with sequence 65 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_65\_bco8r707\_.arc

archived log for thread 1 with sequence 66 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_18/o1\_mf\_1\_66\_bcr3o6pq\_.arc

archived log for thread 1 with sequence 67 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_18/o1\_mf\_1\_67\_bcr3y57b\_.arc

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_62\_bco8jyvp\_.arc thread=1 sequence=62

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_63\_bco8ltsp\_.arc thread=1 sequence=63

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_64\_bco8qgxz\_.arc thread=1 sequence=64

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_65\_bco8r707\_.arc thread=1 sequence=65

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_18/o1\_mf\_1\_66\_bcr3o6pq\_.arc thread=1 sequence=66

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_18/o1\_mf\_1\_67\_bcr3y57b\_.arc thread=1 sequence=67

media recovery complete, elapsed time: 00:00:13

Finished recover at 18/jan/2015 14:57:28

sql statement: alter database open read only

contents of Memory Script:

{

sql clone 'alter pluggable database PDB1 open read only';

}

executing Memory Script

sql statement: alter pluggable database PDB1 open read only

contents of Memory Script:

{

 sql clone "create spfile from memory";

 shutdown clone immediate;

 startup clone nomount;

 sql clone "alter system set control\_files =

 ''/rman\_test/CDB/controlfile/o1\_mf\_bcr3ywq0\_.ctl'' comment=

 ''RMAN set'' scope=spfile";

 shutdown clone immediate;

 startup clone nomount;

# mount database

sql clone 'alter database mount clone database';

}

executing Memory Script

sql statement: create spfile from memory

database closed

database dismounted

Oracle instance shut down

connected to auxiliary database (not started)

Oracle instance started

Total System Global Area 1325400064 bytes

Fixed Size 2924112 bytes

Variable Size 369099184 bytes

Database Buffers 939524096 bytes

Redo Buffers 13852672 bytes

sql statement: alter system set control\_files = ''/rman\_test/CDB/controlfile/o1\_mf\_bcr3ywq0\_.ctl'' comment= ''RMAN set'' scope=spfile

Oracle instance shut down

connected to auxiliary database (not started)

Oracle instance started

Total System Global Area 1325400064 bytes

Fixed Size 2924112 bytes

Variable Size 369099184 bytes

Database Buffers 939524096 bytes

Redo Buffers 13852672 bytes

sql statement: alter database mount clone database

contents of Memory Script:

{

# set requested point in time

set until scn 1837963;

# set destinations for recovery set and auxiliary set datafiles

set newname for datafile 11 to new;

# restore the tablespaces in the recovery set and the auxiliary set

restore clone datafile 11;

switch clone datafile all;

}

executing Memory Script

executing command: SET until clause

executing command: SET NEWNAME

Starting restore at 18/jan/2015 14:58:33

allocated channel: ORA\_AUX\_DISK\_1

channel ORA\_AUX\_DISK\_1: SID=7 device type=DISK

channel ORA\_AUX\_DISK\_1: starting datafile backup set restore

channel ORA\_AUX\_DISK\_1: specifying datafile(s) to restore from backup set

channel ORA\_AUX\_DISK\_1: restoring datafile 00011 to /rman\_test/NWXG\_PITR\_PDB1\_CDB/datafile/o1\_mf\_anuj\_%u\_.dbf

channel ORA\_AUX\_DISK\_1: reading from backup piece /rman\_test/fast\_recovery\_area/CDB/0BC25B43A37C124BE055000000000001/backupset/2015\_01\_17/o1\_mf\_nnndf\_TAG20150117T125814\_bco8oq58\_.bkp

channel ORA\_AUX\_DISK\_1: piece handle=/rman\_test/fast\_recovery\_area/CDB/0BC25B43A37C124BE055000000000001/backupset/2015\_01\_17/o1\_mf\_nnndf\_TAG20150117T125814\_bco8oq58\_.bkp tag=TAG20150117T125814

channel ORA\_AUX\_DISK\_1: restored backup piece 1

channel ORA\_AUX\_DISK\_1: restore complete, elapsed time: 00:00:03

Finished restore at 18/jan/2015 14:58:37

datafile 11 switched to datafile copy

input datafile copy RECID=14 STAMP=869324318 file name=/rman\_test/NWXG\_PITR\_PDB1\_CDB/datafile/o1\_mf\_anuj\_bcr43bwo\_.dbf

contents of Memory Script:

{

# set requested point in time

set until scn 1837963;

# online the datafiles restored or switched

sql clone 'PDB1' "alter database datafile

 11 online";

# recover and open resetlogs

recover clone database tablespace "PDB1":"ANUJ", "SYSTEM", "UNDOTBS1", "SYSAUX", "PDB1":"SYSTEM", "PDB1":"SYSAUX" delete archivelog;

alter clone database open resetlogs;

}

executing Memory Script

executing command: SET until clause

sql statement: alter database datafile 11 online

Starting recover at 18/jan/2015 14:58:38

using channel ORA\_AUX\_DISK\_1

starting media recovery

archived log for thread 1 with sequence 64 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_64\_bco8qgxz\_.arc

archived log for thread 1 with sequence 65 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_65\_bco8r707\_.arc

archived log for thread 1 with sequence 66 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_18/o1\_mf\_1\_66\_bcr3o6pq\_.arc

archived log for thread 1 with sequence 67 is already on disk as file /rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_18/o1\_mf\_1\_67\_bcr3y57b\_.arc

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_64\_bco8qgxz\_.arc thread=1 sequence=64

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_17/o1\_mf\_1\_65\_bco8r707\_.arc thread=1 sequence=65

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_18/o1\_mf\_1\_66\_bcr3o6pq\_.arc thread=1 sequence=66

archived log file name=/rman\_test/fast\_recovery\_area/CDB/archivelog/2015\_01\_18/o1\_mf\_1\_67\_bcr3y57b\_.arc thread=1 sequence=67

media recovery complete, elapsed time: 00:00:01

Finished recover at 18/jan/2015 14:58:41

database opened

contents of Memory Script:

{

sql clone 'alter pluggable database PDB1 open';

}

executing Memory Script

sql statement: alter pluggable database PDB1 open

contents of Memory Script:

{

# create directory for datapump import

sql 'PDB1' "create or replace directory

TSPITR\_DIROBJ\_DPDIR as ''

/rman\_test''";

# create directory for datapump export

sql clone 'PDB1' "create or replace directory

TSPITR\_DIROBJ\_DPDIR as ''

/rman\_test''";

}

executing Memory Script

sql statement: create or replace directory TSPITR\_DIROBJ\_DPDIR as ''/rman\_test''

sql statement: create or replace directory TSPITR\_DIROBJ\_DPDIR as ''/rman\_test''

Performing export of tables...

 EXPDP> Starting "SYS"."TSPITR\_EXP\_nwxg\_jyod":

 EXPDP> Estimate in progress using BLOCKS method...

 EXPDP> Processing object type TABLE\_EXPORT/TABLE/TABLE\_DATA

 EXPDP> Total estimation using BLOCKS method: 64 KB

 EXPDP> Processing object type TABLE\_EXPORT/TABLE/TABLE

 EXPDP> Processing object type TABLE\_EXPORT/TABLE/STATISTICS/TABLE\_STATISTICS

 EXPDP> Processing object type TABLE\_EXPORT/TABLE/STATISTICS/MARKER

 EXPDP> . . exported "ANUJ"."MY\_JOBS" 5.531 KB 4 rows

 EXPDP> Master table "SYS"."TSPITR\_EXP\_nwxg\_jyod" successfully loaded/unloaded

 EXPDP> \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

 EXPDP> Dump file set for SYS.TSPITR\_EXP\_nwxg\_jyod is:

 EXPDP> /rman\_test/tspitr\_nwxg\_27194.dmp

 EXPDP> Job "SYS"."TSPITR\_EXP\_nwxg\_jyod" successfully completed at Sun Jan 18 14:59:23 2015 elapsed 0 00:00:18

Export completed

contents of Memory Script:

{

# shutdown clone before import

shutdown clone abort

}

executing Memory Script

Oracle instance shut down

Performing import of tables...

 IMPDP> Master table "SYS"."TSPITR\_IMP\_nwxg\_ltxu" successfully loaded/unloaded

 IMPDP> Starting "SYS"."TSPITR\_IMP\_nwxg\_ltxu":

 IMPDP> Processing object type TABLE\_EXPORT/TABLE/TABLE

 IMPDP> Processing object type TABLE\_EXPORT/TABLE/TABLE\_DATA

 IMPDP> . . imported "ANUJ"."MY\_JOBS" 5.531 KB 4 rows

 IMPDP> Processing object type TABLE\_EXPORT/TABLE/STATISTICS/TABLE\_STATISTICS

 IMPDP> Processing object type TABLE\_EXPORT/TABLE/STATISTICS/MARKER

 IMPDP> Job "SYS"."TSPITR\_IMP\_nwxg\_ltxu" successfully completed at Sun Jan 18 14:59:41 2015 elapsed 0 00:00:05

Import completed

Removing automatic instance

Automatic instance removed

auxiliary instance file /rman\_test/CDB/datafile/o1\_mf\_temp\_bcr41cnf\_.tmp deleted

auxiliary instance file /rman\_test/CDB/datafile/o1\_mf\_temp\_bcr419gf\_.tmp deleted

auxiliary instance file /rman\_test/NWXG\_PITR\_PDB1\_CDB/onlinelog/o1\_mf\_3\_bcr43mnz\_.log deleted

auxiliary instance file /rman\_test/NWXG\_PITR\_PDB1\_CDB/onlinelog/o1\_mf\_2\_bcr43ln4\_.log deleted

auxiliary instance file /rman\_test/NWXG\_PITR\_PDB1\_CDB/onlinelog/o1\_mf\_1\_bcr43ky6\_.log deleted

auxiliary instance file /rman\_test/NWXG\_PITR\_PDB1\_CDB/datafile/o1\_mf\_anuj\_bcr43bwo\_.dbf deleted

auxiliary instance file /rman\_test/CDB/datafile/o1\_mf\_sysaux\_bcr408qh\_.dbf deleted

auxiliary instance file /rman\_test/CDB/datafile/o1\_mf\_system\_bcr408r5\_.dbf deleted

auxiliary instance file /rman\_test/CDB/datafile/o1\_mf\_sysaux\_bcr3z5d6\_.dbf deleted

auxiliary instance file /rman\_test/CDB/datafile/o1\_mf\_undotbs1\_bcr3z5dk\_.dbf deleted

auxiliary instance file /rman\_test/CDB/datafile/o1\_mf\_system\_bcr3z5c7\_.dbf deleted

auxiliary instance file /rman\_test/CDB/controlfile/o1\_mf\_bcr3ywq0\_.ctl deleted

auxiliary instance file tspitr\_nwxg\_27194.dmp deleted

Finished recover at 18/jan/2015 14:59:42

RMAN>

RMAN>

Recovery Manager complete.