**Transporting SQL PLAN Baselines from One Database to Another. (Doc ID 880485.1)**

Example #2 – How to save SQL Baseline (pack)

In some cases, you may need to delete existing SQL Baseline and save just in case SQL ID start performing worse without any SQL Baseline or New SQL Baseline not providing desire performance.

So you may end up going back to original SQL Baseline.

1. Stage scripts if they are not available on box. Below just an example.

## This is personal dir. You are free to use it or create your own dir on specific server.

cd $HOME/eb

mkdir baseline

cd baseline

mkdir pack

mkdir unpack

Copy script from xhepydbw22q (HEPYQA2) box if no scripts exists

Login to xhepydbw22q box

cd /home/oracle/eb/baseline/pack

scp export\_sts.par xhepydbw23q:/home/oracle/eb/baseline/pack/export\_sts.par

scp populate\_source\_staging\_table.sql xhepydbw23q:/home/oracle/eb/baseline/pack/populate\_source\_staging\_table.sql

cd /home/oracle/eb/baseline/unpack

scp import\_sts.par xhepydbw23q:/home/oracle/eb/baseline/unpack/import\_sts.par

scp unpack\_staging\_table\_into\_target.sql xhepydbw23q:/home/oracle/eb/baseline/unpack/unpack\_staging\_table\_into\_target.sql

Login back to xhepydbw23q box

--If table does not exist create or truncate under your AID

truncate table AIDxxx.TEST\_STS;

or

CREATE TABLE Axxx.TEST\_STS

(

VERSION NUMBER NULL,

SIGNATURE NUMBER NULL,

SQL\_HANDLE VARCHAR2(30) NULL,

OBJ\_NAME VARCHAR2(30) NULL,

OBJ\_TYPE VARCHAR2(30) NULL,

PLAN\_ID NUMBER NULL,

SQL\_TEXT CLOB NULL,

CREATOR VARCHAR2(30) NULL,

ORIGIN VARCHAR2(30) NULL,

DESCRIPTION VARCHAR2(500) NULL,

DB\_VERSION VARCHAR2(64) NULL,

CREATED TIMESTAMP(6) NULL,

LAST\_MODIFIED TIMESTAMP(6) NULL,

LAST\_EXECUTED TIMESTAMP(6) NULL,

LAST\_VERIFIED TIMESTAMP(6) NULL,

STATUS NUMBER NULL,

OPTIMIZER\_COST NUMBER NULL,

MODULE VARCHAR2(64) NULL,

ACTION VARCHAR2(64) NULL,

EXECUTIONS NUMBER NULL,

ELAPSED\_TIME NUMBER NULL,

CPU\_TIME NUMBER NULL,

BUFFER\_GETS NUMBER NULL,

DISK\_READS NUMBER NULL,

DIRECT\_WRITES NUMBER NULL,

ROWS\_PROCESSED NUMBER NULL,

FETCHES NUMBER NULL,

END\_OF\_FETCH\_COUNT NUMBER NULL,

CATEGORY VARCHAR2(30) NULL,

SQLFLAGS NUMBER NULL,

TASK\_ID NUMBER NULL,

TASK\_EXEC\_NAME VARCHAR2(30) NULL,

TASK\_OBJ\_ID NUMBER NULL,

TASK\_FND\_ID NUMBER NULL,

TASK\_REC\_ID NUMBER NULL,

INUSE\_FEATURES NUMBER NULL,

PARSE\_CPU\_TIME NUMBER NULL,

PRIORITY NUMBER NULL,

OPTIMIZER\_ENV RAW(2000) NULL,

BIND\_DATA RAW(2000) NULL,

PARSING\_SCHEMA\_NAME VARCHAR2(30) NULL,

COMP\_DATA CLOB NULL,

STATEMENT\_ID VARCHAR2(30) NULL,

XPL\_PLAN\_ID NUMBER NULL,

TIMESTAMP DATE NULL,

REMARKS VARCHAR2(4000) NULL,

OPERATION VARCHAR2(30) NULL,

OPTIONS VARCHAR2(255) NULL,

OBJECT\_NODE VARCHAR2(128) NULL,

OBJECT\_OWNER VARCHAR2(128) NULL,

OBJECT\_NAME VARCHAR2(128) NULL,

OBJECT\_ALIAS VARCHAR2(261) NULL,

OBJECT\_INSTANCE NUMBER NULL,

OBJECT\_TYPE VARCHAR2(30) NULL,

OPTIMIZER VARCHAR2(255) NULL,

SEARCH\_COLUMNS NUMBER NULL,

ID NUMBER NULL,

PARENT\_ID NUMBER NULL,

DEPTH NUMBER NULL,

POSITION NUMBER NULL,

COST NUMBER NULL,

CARDINALITY NUMBER NULL,

BYTES NUMBER NULL,

OTHER\_TAG VARCHAR2(255) NULL,

PARTITION\_START VARCHAR2(255) NULL,

PARTITION\_STOP VARCHAR2(255) NULL,

PARTITION\_ID NUMBER NULL,

OTHER LONG NULL,

DISTRIBUTION VARCHAR2(30) NULL,

CPU\_COST NUMBER(38,0) NULL,

IO\_COST NUMBER(38,0) NULL,

TEMP\_SPACE NUMBER(38,0) NULL,

ACCESS\_PREDICATES VARCHAR2(4000) NULL,

FILTER\_PREDICATES VARCHAR2(4000) NULL,

PROJECTION VARCHAR2(4000) NULL,

TIME NUMBER(38,0) NULL,

QBLOCK\_NAME VARCHAR2(128) NULL,

OTHER\_XML CLOB NULL

)

ORGANIZATION HEAP

LOB(SQL\_TEXT) STORE AS SECUREFILE /\*SYS\_LOB0000861616C00007$$\*/

(

TABLESPACE USERS

STORAGE(INITIAL 104K BUFFER\_POOL DEFAULT)

ENABLE STORAGE IN ROW

NOCACHE

LOGGING

CHUNK 8192

RETENTION AUTO

)

LOB(COMP\_DATA) STORE AS SECUREFILE /\*SYS\_LOB0000861616C00042$$\*/

(

TABLESPACE USERS

STORAGE(INITIAL 104K BUFFER\_POOL DEFAULT)

ENABLE STORAGE IN ROW

NOCACHE

LOGGING

CHUNK 8192

RETENTION AUTO

)

LOB(OTHER\_XML) STORE AS SECUREFILE /\*SYS\_LOB0000861616C00078$$\*/

(

TABLESPACE USERS

STORAGE(INITIAL 104K BUFFER\_POOL DEFAULT)

ENABLE STORAGE IN ROW

NOCACHE

LOGGING

CHUNK 8192

RETENTION AUTO

)

TABLESPACE USERS

LOGGING

PCTFREE 10

PCTUSED 0

INITRANS 1

MAXTRANS 255

STORAGE(BUFFER\_POOL DEFAULT)

NOPARALLEL

NOCACHE

NOROWDEPENDENCIES

NO INMEMORY

/

cd $HOME/eb/baseline/pack

## Get list with Enabled on Top

SELECT sql\_handle, plan\_name,ORIGIN,ENABLED,ACCEPTED,FIXED,REPRODUCED,OPTIMIZER\_COST,to\_char(Created,'DD-MON-YY') Created

FROM dba\_sql\_plan\_baselines

WHERE ENABLED = 'YES' and signature IN (

SELECT exact\_matching\_signature FROM v$sql WHERE sql\_id='???')

order by accepted desc

## Populate necessary fields from output above

vi populate\_source\_staging\_table.sql

var res number ;

exec :res := DBMS\_SPM.pack\_stgtab\_baseline(table\_name => 'TEST\_STS',table\_owner => 'A236120',sql\_handle => 'SQL\_809a77461ee59d48',plan\_name => 'SQL\_PLAN\_816mr8sgfb7a8f8bba398',enabled => 'YES',accepted => 'YES',fixed => 'NO');

print res

sqlplus / as sysdba

@populate\_source\_staging\_table.sql

exit

Go back to OEM and DELETE this (these) SQL Baseline(s) if it was just created. Otherwise, it maybe used...

Below steps only needed

if intended to move to different server or save for longer period.

expdp Axxx/xxx DIRECTORY=DATA\_PUMP\_DIR DUMPFILE=34hrj9hyma3kh.dmp logfile=34hrj9hyma3kh.log TABLEs=A236120.TEST\_STS

Unpack (in this case back to same database)

-- No need to do import. If you are moving this to different server. You will need to import first.

impdp Axxx/xxx DIRECTORY=DATA\_PUMP\_DIR DUMPFILE=34hrj9hyma3kh.dmp logfile=imp\_34hrj9hyma3kh.log TABLEs=A236120.TEST\_STS TABLE\_EXISTS\_ACTION=TRUNCATE

cd $HOME/eb/baseline/unpack

vi unpack\_staging\_table\_into\_target.sql

var res number ;

exec :res := DBMS\_SPM.unpack\_stgtab\_baseline(table\_name => 'TEST\_STS',table\_owner => 'Axxx');

print res

sqlplus / as sysdba

@unpack\_staging\_table\_into\_target.sql

Go to database (unpack) side OEM

Make sure SQL Baseline appear there and make Fixed - YEs if it's not