

The following steps are created to check the compliance of transition from the original 11g DB to the newly created 12c DB and to confirm that no DB objects or privileges are missing during this migration. For this purpose, we comparing data stored in SYS.DBA_OBJECTS and SYS.DBA_TAB_PRIVS of 11g DB with data stored in SYS.DBA_OBJECTS and SYS.DBA_TAB_PRIVS of 12c. When no difference found the migration is considered to be complained.

1. Create 4 tables to hold data from SYS.DBA_OBJECTS and SYS.DBA_TAB_PRIVS for 11g and 12c In SBREXT 11g.

```
CREATE TABLE SBREXT.DEV11G_OBJECTS
```

```
(  
  OWNER      VARCHAR2(30 BYTE),  
  OBJECT_TYPE VARCHAR2(19 BYTE),  
  OBJECT_NAME VARCHAR2(128 BYTE)  
);
```

```
CREATE TABLE SBREXT.DEV11G_PRIVS
```

```
(  
  OWNER      VARCHAR2(30 BYTE),  
  GRANTEE     VARCHAR2(30 BYTE),  
  TABLE_NAME VARCHAR2(30 BYTE),  
  PRIVILEGE   VARCHAR2(40 BYTE)  
);
```

```
CREATE TABLE SBREXT.DEV12C_OBJECTS
```

```
(  
  OWNER      VARCHAR2(30 BYTE),  
  OBJECT_TYPE VARCHAR2(19 BYTE),  
  OBJECT_NAME VARCHAR2(128 BYTE)  
);
```

```
CREATE TABLE SBREXT.DEV12C_PRIVS
```

```
(  
  OWNER      VARCHAR2(30 BYTE),  
  GRANTEE     VARCHAR2(30 BYTE),  
  TABLE_NAME VARCHAR2(30 BYTE),  
  PRIVILEGE   VARCHAR2(40 BYTE)  
);
```

2. Create 4 control files for data upload:

- 1) ALL_OBJECTS_11G.ctf (**Optional for DEV and QA**)
- 2) ALL_OBJECTS_12C.ctf
- 3) ALL_PRIVS_11G.ctf (**Optional for DEV and QA**)
- 4) ALL_PRIVS_12C.ctf

3. Execute following query in SBR 12C and 11G(**Optional for DEV and QA**):

```
SELECT OWNER, OBJECT_TYPE, OBJECT_NAME
FROM SYS.DBA_OBJECTS WHERE OWNER in ('SBR','SBREXT','MSDRDEV');
```

```
SELECT OWNER, GRANTEE, TABLE_NAME, PRIVILEGE
FROM SYS.DBA_TAB_PRIVS WHERE OWNER in ('SBR','SBREXT','MSDRDEV');
```

4. Create 4 csv from data output:

- 1) ALL_OBJECTS_11G.csv (**Optional for DEV and QA**)
- 2) ALL_OBJECTS_12C.csv
- 3) ALL_PRIVS_11G.csv (**Optional for DEV and QA**)
- 4) ALL_PRIVS_12C.csv

5. Upload data from these files via SQL loader into tables:

- 1) SBREXT.DEV11G_OBJECTS (**Optional for DEV and QA**)
- 2) SBREXT.DEV11G_PRIVS (**Optional for DEV and QA**)
- 3) SBREXT.DEV12C_OBJECTS
- 4) SBREXT.DEV12C_PRIVS

6. Compare the tables and find missing rows by running following statements:

1) FOR DEV and QA

```
SELECT OWNER, OBJECT_TYPE, OBJECT_NAME from SYS.DBA_OBJECTS where owner in
('SBR','SBREXT','MSDRDEV')
MINUS
SELECT*from SBREXT.DEV12C_OBJECTS
ORDER by OWNER, OBJECT_TYPE, OBJECT_NAME;
```

```
SELECT OWNER, TABLE_NAME, PRIVILEGE, GRANTEE from DBA_TAB_PRIVS where
owner in ('SBR','SBREXT','MSDRDEV')
MINUS
SELECT*from SBREXT.DEV12C_PRIVS
ORDER by OWNER, TABLE_NAME, PRIVILEGE, GRANTEE;
```

2) FOR PROD and STAGE

```
SELECT*from SBREXT.DEV11G_OBJECTS
MINUS
SELECT*from SBREXT.DEV12C_OBJECTS
ORDER by OWNER, OBJECT_TYPE, OBJECT_NAME;
```

```
SELECT*from SBREXT.DEV11G_PRIVS  
MINUS  
SELECT*from SBREXT.DEV12C_PRIVS  
ORDER by OWNER, TABLE_NAME, PRIVILEGE, GRANTEE;
```

7. Ignore objects with prefix SYS

: