

Ticket # 3569

Case:

Please refresh 4 tables from development database server to production database. Changes have been tested in developement and they need to be copied to Production tables. Development and production information can be found below.

From Developement:

Server Name:	Linux-D01
Database Name:	DevDB
Schema Name:	FBA
Tables:	QRT_OBS_TYPE_EX QRT_OBS_TYPE QRT_TARGET QRT_TEST_METHOD

To Production:

Server Name:	Linux-P02
Database Name:	ProdDB
Schema Name:	FBA
Tables:	QRT_OBS_TYPE_EX QRT_OBS_TYPE QRT_TARGET QRT_TEST_METHOD

Solution:

1. Login to Development Database Server

```
login to Linux-d01
```

2. Set Database Environment

```
. oraenv
DevDB
```

3. Change directory to tmp

```
cd /tmp
```

4. Take an export of tables in questions

```
exp \  
"/ as sysdba" \  
file=Four_FBA_Tables.dmp \  
log=Four_FBA_Tables_EXP.log \  
tables=FBA.QRT_OBS_TYPE_EX,FBA.QRT_OBS_TYPE,FBA.QRT_TARGET,FBA.QRT_TEST_METHOD  
statistics=None
```

Logs:

```
About to export specified tables via Conventional Path ...  
Current user changed to FBA  
. . exporting table          QRT_OBS_TYPE_EX          178 rows exported  
. . exporting table          QRT_OBS_TYPE             164 rows exported  
. . exporting table          QRT_TARGET               572 rows exported  
. . exporting table          QRT_TEST_METHOD          1348 rows exported  
Export terminated successfully without warnings.
```

5. Copy .dmp file to production db.

```
scp /tmp/Four_FBA_Tables.* Linux-P02:/tmp/.
```

6. Exit out of Development server

```
exit;
```

7. Login to Production Server via putty

8. Go to directory where .dmp file is saved.

```
cd /tmp
```

9. Set database environment

```
. oraenv
```

10. Take an export of the tables that needs to be refreshed.

```
exp \  
"/ as sysdba" \  
file=Four_FBA_Tables_FromProd.dmp \  
log=Four_FBA_Tables_FromProd_EXP.log \  
tables=FBA.QRT_OBS_TYPE_EX,FBA.QRT_OBS_TYPE,FBA.QRT_TARGET,FBA.QRT_TEST_METHOD  
statistics=none
```

11. Take a backup of the tables on the database level

```
sqlplus / as sysdba  
create table FBA.QRT_OBS_TYPE_EX_BKP as select * from FBA.QRT_OBS_TYPE_EX;  
create table FBA.QRT_OBS_TYPE_BKP as select * from FBA.QRT_OBS_TYPE;  
create table FBA.QRT_TARGET_BKP as select * from FBA.QRT_TARGET;  
create table FBA.QRT_TEST_METHOD_BKP as select * from FBA.QRT_TEST_METHOD ;
```

11.1 Verify backup tables are created.

```
select owner, table_name from dba_tables where table_name like '%BKP%';
```

12. Create file called disconst.sql

```
vi disconst.sql  
i  
  
set linesize 100  
set heading off;  
set feedback off;  
SET    SERVEROUTPUT    OFF  
set echo off  
set termout off  
set pagesize 0  
set feedback off  
spool /tmp/disable_constraints.sql  
  
SELECT 'ALTER TABLE ' || a.owner || '.' || a.table_name || ' DISABLE CONSTRAINT ' || a.constraint_name || ';'\  
FROM all_constraints a  
WHERE a.constraint_type = 'C'  
AND a.owner = 'FBA'  
AND a.table_name in ('QRT_OBS_TYPE_EX','QRT_OBS_TYPE','QRT_TARGET','QRT_TEST_METHOD');
```

```

select 'alter table '||a.owner||'.'||a.table_name||
' DISABLE constraint '||a.constraint_name||';'
from all_constraints a, all_constraints b
where a.constraint_type = 'R'
and a.r_constraint_name = b.constraint_name
and a.r_owner = b.owner
and b.table_name in ('QRT_OBS_TYPE_EX','QRT_OBS_TYPE','QRT_TARGET','QRT_TEST_METHOD')
and b.owner in 'FBA';

spool off

```

ESC

:wq!

13. Create script to ENABLE Constraints

vi /tmp/enbconst.sql

i

```

set linesize 100
set heading off;
set feedback off;
SET  SERVEROUTPUT  OFF
set echo off
set termout off
set pagesize 0
set feedback off
spool /tmp/enable_constraints.sql

SELECT 'ALTER TABLE ' ||a.owner||'.'|| a.table_name || ' ENABLE CONSTRAINT ' || a.constraint_name || ';'
FROM all_constraints a
WHERE a.constraint_type = 'C'
AND a.owner = 'FBA'
AND a.table_name in ('QRT_OBS_TYPE_EX','QRT_OBS_TYPE','QRT_TARGET','QRT_TEST_METHOD');

select 'alter table '||a.owner||'.'||a.table_name||
' ENABLE constraint '||a.constraint_name||';'
from all_constraints a, all_constraints b
where a.constraint_type = 'R'
and a.r_constraint_name = b.constraint_name

```

```
and a.r_owner = b.owner
and b.table_name in ('QRT_OBS_TYPE_EX','QRT_OBS_TYPE','QRT_TARGET','QRT_TEST_METHOD')
and b.owner in 'FBA';

spool off
```

```
ESC
:wq!
```

14. Run disconst.sql and enbconst.sql

```
sqlplus / as sysdba
@/tmp/disconst.sql
@/tmp/enbconst.sql
```

15. Verity Script is generated

```
cat /tmp/disable constraints.sql
```

```
ALTER TABLE FBA.QRT_TEST_METHODENABLE CONSTRAINT SYS_C0031754;
ALTER TABLE FBA.QRT_OBS_TYPE_EXENABLE CONSTRAINT SYS_C0031765;
```

```
cat /tmp/enable constraints.sql
```

```
ALTER TABLE FBA.QRT_TEST_METHODENABLE CONSTRAINT SYS_C0031754;
ALTER TABLE FBA.QRT_OBS_TYPE_EXENABLE CONSTRAINT SYS_C0031765;
```

16. Run the script to disable the constraint

```
sqlplus / as sysdba
@/tmp/disable_constraints.sql
exit;
```

17. Truncate table

```
Truncate table FBA.QRT_OBS_TYPE_EX;
Truncate table FBA.QRT_OBS_TYPE;
Truncate table FBA.QRT_TARGET;
Truncate table FBA.QRT_TEST_METHOD;
```

18. Import tables from .dmp file

```
cd /tmp

imp \
"/ as sysdba" \
file=Four_FBA_Tables.dmp \
log=Four_FBA_Tables_IMP.log \
fromuser=FBA \
touser=FBA \
ignore=y
```

Logs:

```
Import: Release 10.2.0.4.0 - Production on Wed Oct 23 22:46:26 2013

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Connected to: Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

Export file created by EXPORT:V10.02.01 via conventional path
import done in US7ASCII character set and UTF8 NCHAR character set
import server uses UTF8 character set (possible charset conversion)
. importing FBA's objects into FBA
. . importing table      "QRT_OBS_TYPE_EX"          178 rows imported
. . importing table      "QRT_OBS_TYPE"             164 rows imported
. . importing table      "QRT_TARGET"               572 rows imported
. . importing table      "QRT_TEST_METHOD"          1348 rows imported
Import terminated successfully without warnings.
```

19. enable constraint.

```
sqlplus / as sysdba
@/tmp/enable_constraints.sql
```

20. recompile invalid objects

```
@?/rdbms/admin/utlrbp.sql
```

-- Moid Muhammad