**Teradata DB Objects Migration Between Environments**

Prepared by

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**Overview**

This script can be used when we need to create huge number of Teradata Database objects from one environment to another without manual intervention. For an example as part of a new project we have a business requirement of creating 500+ or more to deliver it. Initially we can create the objects(table/view) in an environment as per requirement. Then while testing in higher environment, we can utilize the script which can take definition (DDL) of the objects from one environment and create it in another without any manual intervention. It can save time remarkably.

**Problem Statement**: As part of Migration project, we have to create 500+ objects(tables/Views) in Test and Production environment from Development environment newly. So, creating this many objects one by one will consume time and lead human error also.

**Solution:** To avoid manual effort and human error, a ksh script(createobjectsdemo.ksh) is created which will take Object’s DDL from one environment and create in another required environment.

**Benefits**

* Script logs in the source environment, takes definition of objects(table/view) and keep it in a file

then log off. In the next step logs in target environment and run the file and objects get create

* It is a .ksh script so easy to run in Unix server.
* Easy to use, it can be called in any job.
* No new software or hardware required.
* No additional Licenses Needed.
* It takes ~10 mins to take DDL of the object from env and create in another So,

For 500 objects,500 objects \* 10 mins =5000 mins =83.33 hr= (83.33/8) =10 days effort for a resource.

Above 10 days effort can be reduced to 2 days(maximum), and we can save 8 days effort.

**Features**

* This script can be used one time for creating large no of database objects for a project

**Audience**

ETL Developer

**Technologies**

* Unix
* Database(Teradata, SQL etc)
* Any scheduling tool if you want to call it though in any job(optional)

**Script code and how to use**

#!/bin/ksh

################################################################################

dt=`date '+%Y%m%d%H%M%S'`

EXTRACT\_LOC=/export/home/SSAMA003/Test

echo "Extraction Location is ${EXTRACT\_LOC}"

**######logging in to source environment#######**

bteq <<!

.logon teradev/tdsupport,ready2go;

.run file=${BTQENV};

.set width 60000;

.format off;

.set titledashes off;

.SET ECHOREQ OFF;

.export report file = ${EXTRACT\_LOC}/createobj.txt;

**######Extracting Definition of TD Database objects #######**

sel top 5 upper(requesttext) (TITLE ' ') from dbc.tablesv

where tablename not like '%XX%'

and tablename like '%XXX%'

and databasename like '%XX%'

and requesttext like '%CREATE%'

(TITLE ' ')

order by tablename;

.export reset;

.quit;

!

cd ${EXTRACT\_LOC}

## to check if file is available

if [[ -f ${EXTRACT\_LOC}/createobj.txt ]]; then

echo 'Success -- tstcreateobj\_${dt}.txt created '

sed 's/DEV\_/TST\_/g' ${EXTRACT\_LOC}/createobj.txt > tstcreateobj\_${dt}.txt

rm createobj.txt

echo 'createobj.txt removed'

else

echo 'Failed'

fi

**##############logging to target environment to run the extracted file#####################**

bteq <<!

.logon teratst/sysdba,M8l0n3;

.run file=${BTQENV};

.set width 60000;

.run file = tstcreateobj\_${dt}.txt;

.export reset;

.quit ;

!

