
Db2 on z/OS MIGRATION STEPS – 3.2.7.0_from_3.2.6.1

Migration prerequisite: all the tablespaces used/defined should be Universal table spaces (UTS).

1. Create a backup of the database to be migrated so that it can be rolled back if a problem occurs during or after the migration process.
2. Create an installation data set. The suggested name is FTMVvrnf.OINSTLIB, where vrnf represents the version, release, modification, and fix pack level. For example, in TSO, enter:

```
Data Set Name . . . : FTMV3270.OINSTLIB
Organization   . . . : PO
Record format  . . . : FB
Record length  . . . : 80
```

3. Copy the contents of the following SMP/E UNIX System Services directories into the installation data set in the following order:
 - a. *instdir/admin/scripts/database/migration/3.2.7.0_from_3.2.6.1*
 - b. *instdir/admin/scripts/database*

The members that are copied from this /admin/scripts/database/migration subdirectory contain all the database changes since V3.2.6.

4. Make a copy of the installation data set and work only with that copy. In addition, save the original as a backup. The suggested name for the copy is FTMVvrnf.INSTLIB.
5. The member @@2MACRO maps each configuration placeholder to the value it is to have. Determine the appropriate value for each of the configuration placeholders (see Table 1 on page 3) and modify @@2MACRO.
6. Run @@1REXX to replace each placeholder in the installation data set members with the corresponding value that is specified in @@2MACRO. For example, to run @@1REXX for FTMV3270.INSTLIB, issue the following commands in ISPF option 6 (commands):

```
ALLOC DA('FTMV3270.INSTLIB') DD(SYSEXEC) SHR REUSE
%@@@1REXX 'FTMV3270.INSTLIB' @@2MACRO
```

7. Check the customized DDL and JCL files before you continue.

8. Run the Db2® Migration DDL files in your runtime environment in either of the following ways:

Run the supplied sample JCLs

The sample JCLs run the DDL files that migrate the database:

- a. Adapt its job card to your system requirements.
- b. You might want to run the SYSIN members one at a time so that you can verify the results before you run the next member. If you do want to run the members one at a time, comment out the lines that are not to be run.
- c. Submit the sample JCL in the following order:
 - i) @M270JC1
 - ii) @M270JC2
 - iii) @M270JC3

Run the Db2 Migration DDL files by using SPUFI or a similar tool.

Use SPUFI or a similar tool to run the DDL members in the same order that is specified in the @M270JC* JCLs.

9. Tables and table spaces need to be checked for any Check or Reorg Pending status. Below sample script can be used to resolve any copy pending issues on a table space. Eg. for ++FXHDATABASE++.LOB++FXHTBLSPCDIST++16

```
//LOBCOPY JOB NOTIFY=&SYSUID  
//JCLLIB JCLLIB ORDER=++DB2LOCATION++.PROCLIB  
//STEP1 EXEC DSNUPROC,UID='FTMCOPY',  
// UTPROC="",  
// SYSTEM=++DB2SUBSYSTEM++  
//SYSCOPY DD DSN=++DB2HLQ++.LOBTMP,UNIT=SYSDA,  
// SPACE=(CYL,(25,10)),DISP=(NEW,DELETE)  
//SYSIN DD *  
COPY TABLESPACE ++FXHDATABASE++.LOB++FXHTBLSPCDIST++16  
/*
```

Table 1. FTM configuration placeholders used by the migration procedures	
Placeholder	Description
++DB2HLQ++	Db2 high-level qualifier For example, SYS2.DB2.V13
++DB2SUBSYSTEM++	Db2 SSID
++DB2RUNLIB++	The Db2 RUNLIB For example, DSN91008.RUNLIB.LOAD
++DB2DSNTEP2PLAN++	Plan for DSNTEP2 in the Db2 subsystem
++FXHINSTALLATIONLIB++	installation library For example, FTMV3270.INSTLIB
++FXHSTORAGEGROUP++	storage group
++FXHSCHEMA++	Schema for For example, FTM
++FXHCURRENTSQLID++	SET CURRENT SQLID user ID
++FXHOPIDTYPE++	Determines whether the operational ID data type is INTEGER or DECIMAL(19,0).
++FXHBUFFERPOOL++	Buffer pool that is used for the new index.
++FXHDATABASE++	FTM Database name For example, 'FTMDB'
++FXHTBLSPCDIST++	Max of 3 chars to distinguish tablespaces names in case of multiple FTM instances
++FXHBUFFERPOOL8K++	FTM alternative bufferpool. For example, 'BP8K'
++UNLOADHLQ++	PDS high-level qualifier. Used by the UNLOAD/LOAD database migration JCL to store the unloaded data.