USING DB2 ON Z/OS WITH MQSMFCSV

Define the DB2 tables

The DDL commands provide by the mqsmfcsv tool can be used without modification. Upload the DDL commands to a z/OS data set and include them in the job below after the SYSIN DD statement, see below. This particular JCL has been configured to define the tables in a DB2 subsystem named DSNF which is running DB2 V10.

```
//MQSMFDDL EXEC PGM=IKJEFT01, DYNAMNBR=20, COND=(4, LT)
 //SYSTSPRT DD SYSOUT=*
 //SYSPRINT DD
                SYSOUT=*
 //SYSUDUMP DD
               SYSOUT=*
 //SYSTSIN DD
 DSN SYSTEM (DSNF)
 RUN PROGRAM (DSNTIAD) PLAN (DSNTIA10) -
   LIB ('DSN1010.RUNLIB.LOAD')
         DD *
//SYSIN
DROP
        TABLE MQSMF.QMAC;
CREATE TABLE MQSMF.QMAC (
  Date
         DATE
 , Time
         CHAR (16)
```

Move the CSV files to z/OS

The CSV files have to be loaded into DB2 on z/OS tables locally. They can be moved to z/OS using various tools. I find using FTP the easiest. Be aware that the records are variable length and the record size may exceed the default maximum for the technique being used. For FTP to z/OS the default maximum size for a record is usually 256 characters. That is the why the sample commands below include the FTP *quote* subcommand to set the default record size to 2048 (*lrecl=2048*) and the default record format to variable (*recfin=v*) for these file transfers.

```
c:\z\mf\temp\smf\out>ftp mpx3
Connected to mpx3.
220-FTPSERVE IBM FTP CS V2R2 at MPX1.dmz, 10:46:16 on 2016-07-07.
220 Connection will close if idle for more than 30 minutes.
User (mpx3:(none)): johnson
331 Send password please.
Password:
230 JOHNSON is logged on. Working directory is "JOHNSON.".
ftp> quote site lrecl=2048 recfm=v
200 SITE command was accepted
ftp> prompt
Interactive mode Off .
ftp> mput *.csv
200 Port request OK.
125 Storing data set JOHNSON.SMF-Q5ST.CSV
250 Transfer completed successfully.
ftp: 601 bytes sent in 0.28Seconds 2.16Kbytes/sec.
125 Storing data set JOHNSON.SMF-QMST.CSV
250 Transfer completed successfully.
ftp: 150 bytes sent in 0.31Seconds 0.48Kbytes/sec.
```

Load the DB2 tables with the SMF data

Use the DB2 load utility to load the contents of the CSV into the tables.

```
//LOADQEST EXEC DSNUPROC, PARM='DSNF, QEST', REGION=OM
//DSNTRACE DD SYSOUT=*
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-QEST.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
         DD *
  LOAD DATA INDDN (SMFINPUT)
       FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.QEST
//LOADQIST EXEC DSNUPROC, PARM='DSNF,QIST', REGION=0M
//DSNTRACE DD SYSOUT=*
//SMFQIST DD DISP=SHR,DSN=JOHNSON.SMF-QIST.CSV
//SYSUT1 DD UNIT=SYSDA,SPACE=(4000,(50,50),,,ROUND)
         DD *
 LOAD DATA INDDN(SMFQIST)
       FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.QIST
//LOADQJST EXEC DSNUPROC, PARM='DSNF,QJST', REGION=OM
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-QJST.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
//SYSIN
          DD *
 LOAD DATA INDDN (SMFINPUT)
       FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.QJST
//LOADQLST EXEC DSNUPROC, PARM='DSNF, QLST', REGION=OM
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-QLST.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
//SYSIN
           DD
  LOAD DATA INDDN (SMFINPUT)
      FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MOSMF.QLST
//LOADQMAC EXEC DSNUPROC, PARM='DSNF, QMAC', REGION=0M
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-QMAC.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
//SYSIN
         DD *
  LOAD DATA INDDN (SMFINPUT)
       FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.QMAC
//LOADQMST EXEC DSNUPROC, PARM='DSNF, QMST', REGION=0M
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-QMST.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
          DD *
//SYSTN
  LOAD DATA INDDN (SMFINPUT)
       FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.QMST
//LOADQPST EXEC DSNUPROC, PARM='DSNF, QPST', REGION=0M
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-QPST.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
           DD
//SYSIN
  LOAD DATA INDDN (SMFINPUT)
       FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.QPST
```

```
//LOADQSST EXEC DSNUPROC, PARM='DSNF, QSST', REGION=0M
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-QSST.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
//SYSIN
          DD
 LOAD DATA INDDN(SMFINPUT)
      FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.QSST
//LOADQTST EXEC DSNUPROC, PARM='DSNF, QTST', REGION=OM
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-QTST.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
//SYSIN
         DD *
 LOAD DATA INDDN(SMFINPUT)
      FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.QTST
//LOADQ5ST EXEC DSNUPROC, PARM='DSNF, Q5ST', REGION=0M
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-Q5ST.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
//SYSIN DD *
//SYSIN
 LOAD DATA INDDN(SMFINPUT)
      FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.Q5ST
//LOADWQ EXEC DSNUPROC, PARM='DSNF, WQ', REGION=OM
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-WQ.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000,(50,50),,,ROUND)
//SYSIN
          DD
 LOAD DATA INDDN(SMFINPUT)
      FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.WQ
//LOADWTAS EXEC DSNUPROC, PARM='DSNF, WTAS', REGION=OM
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-WTAS.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
//SYSIN
         DD *
 LOAD DATA INDDN (SMFINPUT)
      FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.WTAS
//LOADWTID EXEC DSNUPROC, PARM='DSNF, WTID', REGION=OM
//SMFINPUT DD DISP=SHR, DSN=JOHNSON.SMF-WTID.CSV
//SYSUT1 DD UNIT=SYSDA, SPACE=(4000, (50,50),,,ROUND)
//SYSIN
         DD *
 LOAD DATA INDDN (SMFINPUT)
       FORMAT DELIMITED COLDEL ',' CHARDEL '"' INTO TABLE MQSMF.WTID
```