Appendix G: DataPrep JCL for z/OS

Introduction

The DataPrep JCL for z/OS installation process creates dataset names on your system. The Unload JCL provided contains a specific naming convention. In particular, the second and last node in the dataset names contain identifying information (Version/Release/Levelset Date) to assist in tracking and identifying software in use. **We strongly recommend that you retain this naming convention.**

Step 1: JCL for Installation

The following JCL will be used once to unload additional JCL. JCL for the Unload Tape, step 2, will then unload the rest of the tape. Your site will probably have a JCL file similar to this that executes IEBCOPY. You should modify the file to have the file names indicated below.

The Install JCL:

```
//PSY20002 JOB (P75333AA-5100AAAA,066),'SCH TAPE UL1',
// CLASS=A,MSGCLASS=A,REGION=4M
//*
//* ------------------- PSY20002 -------------------
//* JOB DESCRIPTION
//*
//* SYSTEM SOFTWARE        - SCH DATA PROVIDER TAPE UNLOAD - PART1
//*
//* PSTEP010               - IEBCOPY
//*
//* --------------------------------------------------
//*
//        SET DB2=NSLD
//        SET ENV=P
//        SET LVLSET=LS990715
//        SET SPACE01=CYL
//        SET UNITPERM=SYSDA
//        SET UNITTAPE=CART
//        SET VR=PROD
//*
//* ------------------- IEBCOPY  -------------------
//*
//*  JOBLIB  DD  DISP=SHR,DSN=?????????????????????
//*
//*
//*
//PSTEP010 EXEC PGM=IEBCOPY
//*
//SYSIN    DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1   DD DSN=NSLDS.&VR..CUTTAPE.&LVLSET,
//         DISP=SHR,
//         UNIT=&UNITTAPE
```

```
//***      VOLSER=??????
//*
//SYSUT2   DD DSN=NSLDS&ENV..&VR..CUTTAPE.&LVLSET,
//         DISP=(NEW,CATLG,DELETE),
//         SPACE=(&SPACE01,(30,3,400)),
//         UNIT=&UNITPERM
//*
//*
//         IF PSTEP010.RC NE 0 THEN
//PSTEP011 EXEC CKRCODE
//         ENDIF
//*
```

Step 2. JCL for the Unload Tape

The following JCL was unloaded to your system in step 1. This JCL sets up the actual libraries and software to allow you to execute the DataPrep software. This Unload Tape JCL will normally only run once. However, if you need to run this JCL again to reinstall DataPrep, be aware that step PSTEP005 will delete all datasets previously created.

This JCL may be referenced from the library created with CUTTAPE as part of the name (created in step 1). The library member name is UNLOAD.

The Unload JCL

```
//PSY20003 JOB (P75333AA-5100AAAA,066),'SCH TAPE UNLD2',
// CLASS=A,MSGCLASS=A,REGION=4M
//*
//* ------------------ PSY20003 -------------------
//* JOB DESCRIPTION
//*
//* SYSTEM SOFTWARE        - SCH DATA PROVIDER TAPE UNLOAD - PART2
//*
//* PSTEP010               - IEBGENER
//* PSTEP020               - IEBGENER
//* PSTEP030               - IEBCOPY
//* PSTEP040               - IEBCOPY
//* PSTEP050               - IEBCOPY
//* PSTEP060               - IEBCOPY
//* PSTEP070               - IEBCOPY
//* PSTEP080               - IEBGENER
//*
//* ------------------------------------------------
//*
//         SET DB2=NSLD
//         SET ENV=P
//         SET LVLSET=LS990715
//         SET SPACE01=CYL
//         SET UNITPERM=SYSDA
//         SET UNITTAPE=CART
//         SET VR=PROD
//         SET SC=SC
//*
```

```
//*  JOBLIB   DD  DISP=SHR,DSN=?????????????????????????????
//*
//*
//*
//PSTEP005 EXEC PGM=IEFBR14
//*
//DD1       DD DSN=NSLDS&ENV..&VR..&SC..DOC.&LVLSET,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//DD2       DD DSN=NSLDS&ENV..&VR..&SC..DBEXT.&LVLSET,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//DD3       DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//DD4       DD DSN=NSLDS&ENV..&VR..&SC..JCLLIB.&LVLSET,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//DD5       DD DSN=NSLDS&ENV..&VR..&SC..LOAD.&LVLSET,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//DD6       DD DSN=NSLDS&ENV..&VR..&SC..DBEXTERR.&LVLSET,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//DD7       DD DSN=NSLDS&ENV..&VR..&SC..LOADERR.&LVLSET,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//*
//PSTEP010 EXEC PGM=IEBGENER
//*
//SYSIN     DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1    DD DSN=NSLDS.&VR..DOC.&LVLSET,
//          DISP=SHR,
//          LABEL=(3,SL),
//          UNIT=&UNITTAPE,
//          VOL=(,RETAIN)
//***       VOL=(,RETAIN,,SER=&VOLSER)
//*
//SYSUT2    DD DSN=NSLDS&ENV..&VR..&SC..DOC.&LVLSET,
//          DISP=(NEW,CATLG,DELETE),
```

```
//         SPACE=(&SPACE01,(30,3)),
//         UNIT=&UNITPERM
//*
//*
//         IF PSTEP010.RC NE 0 THEN
//PSTEP011 EXEC CKRCODE
//         ENDIF
//*
//* ------------------- IEBGENER -------------------
//*
//PSTEP020 EXEC PGM=IEBGENER
//*
//SYSIN    DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1   DD DSN=NSLDS.&VR..DBEXT.&LVLSET,
//         DISP=SHR,
//         LABEL=(4,SL),
//         UNIT=&UNITTAPE,
//         VOL=(,RETAIN,,REF=*.PSTEP010.SYSUT1)
//*
//SYSUT2   DD DSN=NSLDS&ENV..&VR..&SC..DBEXT.&LVLSET,
//         DISP=(NEW,CATLG,DELETE),
//         SPACE=(&SPACE01,(30,3)),
//         UNIT=&UNITPERM
//*
//*
//         IF PSTEP020.RC NE 0 THEN
//PSTEP021 EXEC CKRCODE
//         ENDIF
//*
//* ------------------- IEBCOPY  -------------------
//*
//PSTEP030 EXEC PGM=IEBCOPY
//*
//SYSIN    DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1   DD DSN=NSLDS.&VR..CNTL.&LVLSET,
//         DISP=SHR,
//         LABEL=(5,SL),
//         UNIT=&UNITTAPE,
//         VOL=(,RETAIN,,REF=*.PSTEP020.SYSUT1)
//*
//SYSUT2   DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET,
//         DISP=(NEW,CATLG,DELETE),
//         SPACE=(&SPACE01,(30,3,400)),
//         UNIT=&UNITPERM
//*
//*
//         IF PSTEP030.RC NE 0 THEN
//PSTEP031 EXEC CKRCODE
//         ENDIF
//*
//* ------------------- IEBCOPY  -------------------
```

```
//*
//PSTEP040 EXEC PGM=IEBCOPY
//*
//SYSIN    DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1   DD DSN=NSLDS.&VR..JCLLIB.&LVLSET,
//         DISP=SHR,
//         LABEL=(6,SL),
//         UNIT=&UNITTAPE,
//         VOL=(,RETAIN,,REF=*.PSTEP030.SYSUT1)
//*
//SYSUT2   DD DSN=NSLDS&ENV..&VR..&SC..JCLLIB.&LVLSET,
//         DISP=(NEW,CATLG,DELETE),
//         SPACE=(&SPACE01,(30,3,400)),
//         UNIT=&UNITPERM
//*
//*
//         IF PSTEP040.RC NE 0 THEN
//PSTEP041 EXEC CKRCODE
//         ENDIF
//*
//* ------------------- IEBCOPY  --------------------
//*
//PSTEP050 EXEC PGM=IEBCOPY
//*
//SYSIN    DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1   DD DSN=NSLDS.&VR..LOAD.&LVLSET,
//         DISP=SHR,
//         LABEL=(7,SL),
//         UNIT=&UNITTAPE,
//         VOL=(,RETAIN,,REF=*.PSTEP040.SYSUT1)
//*
//SYSUT2   DD DSN=NSLDS&ENV..&VR..&SC..LOAD.&LVLSET,
//         DISP=(NEW,CATLG,DELETE),
//         SPACE=(&SPACE01,(30,3,400)),
//         UNIT=&UNITPERM
//*
//*
//         IF PSTEP050.RC NE 0 THEN
//PSTEP051 EXEC CKRCODE
//         ENDIF
//*
//* ------------------- IEBCOPY  --------------------
//*
//PSTEP060 EXEC PGM=IEBGENER
//*
//SYSIN    DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1   DD DSN=NSLDS.&VR..DBEXTERR.&LVLSET,
//         DISP=SHR,
```

```
//          LABEL=(8,SL),
//          UNIT=&UNITTAPE,
//          VOL=(,RETAIN,,REF=*.PSTEP050.SYSUT1)
//*
//SYSUT2   DD DSN=NSLDS&ENV..&VR..&SC..DBEXTERR.&LVLSET,
//          DISP=(NEW,CATLG,DELETE),
//          SPACE=(&SPACE01,(30,3)),
//          UNIT=&UNITPERM
//*
//*
//          IF PSTEP060.RC NE 0 THEN
//PSTEP061 EXEC CKRCODE
//          ENDIF
//*
//* ------------------- IEBCOPY  -------------------
//*
//PSTEP070 EXEC PGM=IEBGENER
//*
//SYSIN    DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1   DD DSN=NSLDS.&VR..LOADERR.&LVLSET,
//          DISP=SHR,
//          LABEL=(9,SL),
//          UNIT=&UNITTAPE,
//          VOL=(,RETAIN,,REF=*.PSTEP060.SYSUT1)
//*
//SYSUT2   DD DSN=NSLDS&ENV..&VR..&SC..LOADERR.&LVLSET,
//          DISP=(NEW,CATLG,DELETE),
//          SPACE=(&SPACE01,(30,3)),
//          UNIT=&UNITPERM
//*
//*
//          IF PSTEP070.RC NE 0 THEN
//PSTEP071 EXEC CKRCODE
//          ENDIF
```

Step 3: JCL for DataPrep Extract Validation

The following JCL executes the DataPrep program which performs Extract Validation and Error Reporting and creates the current Submittal File that you will send to NSLDS. It can be referenced from the library created with JCLLIB as part of the name. The library member name is PRBB1000.

The summary error report can be sorted if desired in three different ways (by Error Count, Field Code, or Error Code) by changing the SET statement. See the SET statements in the in-stream JCL documentation below. The Detail Error Report is only sorted by SSN.

The JCL includes a sample Database Extract File containing 50 student/loan records of which 2 are in error. This should be reported in the Log File Report, the Detail Error Report, and the Summary Error Report, which are outputs from the Extract Validation process.

A second sample extract is included for your use that contains 50 student/loan records, of which 6 are in error, and in which error thresholds are exceeded. If you use this sample, no Submittal File will be created. You can use this second sample to test that you have installed DataPrep correctly. To use the second sample, you must change the JCL to reference the sample extract containing DBEXTERR as part of the name. Be sure to comment out or delete the sample files once you have completed testing.

Previous Datasets
The first step in the JCL will delete any datasets previously created. If you want to save your previous Submittal File, you must copy it to another file name.

Extract Validation JCL

```
//PRBB1000 JOB (P75333AA-5100AAAA,066),'SCH EXT VAL RPT',
// CLASS=A,MSGCLASS=A,REGION=6M
//*
//* ------------------- RBB100PB -------------------
//* JOB DESCRIPTION
//*
//* REPOSITORY BUILD         - SCH EXTRACT VALIDATION AND ERROR REPORTING
//*
//* PSTEP010                 - IEFBR14   DELETE FILES FROM PREVIOUS RUN
//* PSTEP020                 - SORT      SORT EXTRACT FILE BY SCH/SSN
//* PSTEP030                 - TIRIOVFI  SPECIAL FOR COOL:GEN
//* PSTEP040                 - RBB100PB  VALIDATION
//* PSTEP050                 - IDCAMS    CHECK FOR EMPTY SUBMTL FILE
//* PSTEP060                 - IEFBR14   DELETE EMPTY SUBMTL FILE
//* PSTEP070                 - TIRIOVFI  SPECIAL FOR COOL:GEN
//* PSTEP080                 - RBB200PB  DETAIL ERROR REPORT
//* PSTEP090                 - IEBGENER  PRINT DETAIL ERROR REPORT
//* PSTEP100                 - UTB300PB  SUMMARY ERROR REPORT COUNTER
//* PSTEP110                 - SORT      SORT SUMMARY ERROR REPORT FILE
//* PSTEP120                 - UTB400PB  SUMMARY ERROR REPORT PROGRAM
//* PSTEP130                 - IEBGENER  PRINT SUMMARY ERROR REPORT
//*
//* ----------------------------------------------------
//*  THIS IS SAMPLE JCL THAT WILL GO TO THE DATA PROVIDER'S SITE.
//*  IT IS NOT TO BE RUN IN PRODUCTION AT NSLDS AND DOES NOT
//*  REFLECT NSLDS PROGRAMMING STANDARDS. THIS JCL IS SENT TO THE
//*  DATA PROVIDER AS A SUGGESTED SAMPLE AND ITS USE IS OPTIONAL.
//*
//        SET ENV=P
//        SET JOBNME=PRBB1000
//        SET LVLSET=LS990715
//        SET SPACE01=CYL
//        SET SRCNME01=RBB10000
//        SET UNITPERM=SYSDA
//*       SET UNITPERM=TAPE
//        SET UNITTEMP=SYSDA
//        SET VR=PROD
//        SET SC=SC
//*
//*       ERROR COUNT ORDER
```

```
//          SET SORTPARM=PUTB4001
//*
//*         FIELD CODE ORDER
//*         SET SORTPARM=PUTB4002
//*
//*         ERROR CODE ORDER
//*         SET SORTPARM=PUTB4003
//*
//*
//JOBLIB   DD DISP=SHR,DSN=NSLDS&ENV..&VR..&SC..LOAD.&LVLSET
//*
//* ------------------- IEFBR14  --------------------
//*
//PSTEP010 EXEC PGM=IEFBR14
//*
//DD1      DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.CURSUBMT,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD2      DD DSN=NSLDS&ENV..&JOBNME..PSTEP030.IOVFILE,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD3      DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.ERRFILE,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD4      DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.LOGFILE,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD5      DD DSN=NSLDS&ENV..&JOBNME..PSTEP070.IOVFILE,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD6      DD DSN=NSLDS&ENV..&JOBNME..PSTEP080.ERRORRPT,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD7      DD DSN=NSLDS&ENV..&JOBNME..PSTEP100.ERRORCNT,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD8      DD DSN=NSLDS&ENV..&JOBNME..PSTEP110.ERRORCNT,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD9      DD DSN=NSLDS&ENV..&JOBNME..PSTEP120.ERRORSUM,
//         DISP=(MOD,DELETE,DELETE),
```

```
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//*
//DD10      DD DSN=NSLDS&ENV..&JOBNME..PSTEP020.EXTSORT,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//          IF PSTEP010.RC NE 0 THEN
//PSTEP011 EXEC PGM=CKRCODE
//          ENDIF
//*
//* ------------------- SORT     -------------------
//*
//PSTEP020 EXEC PGM=SORT
//*
//*
//SORTIN    DD DSN=NSLDS&ENV..&VR..&SC..DBEXT.&LVLSET,
//          DISP=SHR
//*
//SORTOUT   DD DSN=NSLDS&ENV..&JOBNME..PSTEP020.EXTSORT,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=300,
//          RECFM=FB,
//          SPACE=(&SPACE01,(1,1),RLSE),
//          UNIT=(&UNITPERM,,DEFER),
//          VOL=(,RETAIN,,5)
//*
//SORTWK01 DD SPACE=(&SPACE01,(100,100)),
//          UNIT=&UNITTEMP
//*
//SORTWK02 DD SPACE=(&SPACE01,(100,100)),
//          UNIT=&UNITTEMP
//*
//SORTWK03 DD SPACE=(&SPACE01,(100,100)),
//          UNIT=&UNITTEMP
//*
//SYSIN     DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(PRBB1000),
//          DISP=SHR
//*
//SYSOUT    DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//*
//*
//          IF PSTEP020.RC NE 0 THEN
//PSTEP021 EXEC CKRCODE
//          ENDIF
//*
//PSTEP030 EXEC PGM=TIRIOVFI
//*
//TIRERRF   DD SYSOUT=*
//*
//TIRIOVF   DD DSN=NSLDS&ENV..&JOBNME..PSTEP030.IOVFILE,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
```

```
//          LRECL=4096,
//          RECFM=FB,
//          SPACE=(CYL,(1,1),RLSE),
//          UNIT=&UNITTEMP
//*
//TIRMSGF  DD SYSOUT=*
//*
//          IF PSTEP030.RC NE 110 THEN
//PSTEP031 EXEC PGM=CKRCODE
//          ENDIF
//*
//* ------------------ RBB100PB -------------------
//*
//PSTEP040 EXEC PGM=RBB100PB
//*
//*
//SC001    DD DSN=NSLDS&ENV..&JOBNME..PSTEP020.EXTSORT,
//          DISP=SHR
//*
//TEFFILE  DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(PUTB3000),
//          DISP=SHR
//*
//* IF THRESHOLDS EXCEEDED, CURRENT SUBMITTAL WILL BE EMPTY.
//* STEP 60 WILL DELETE AN EMPTY SUBMITTAL FILE.
//*
//SC002    DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.CURSUBMT,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=300,
//          RECFM=FB,
//          SPACE=(&SPACE01,(50,50),RLSE),
//          UNIT=(&UNITPERM,,DEFER),
//          VOL=(,RETAIN,,5)
//*
//ER001    DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.ERRFILE,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=300,
//          RECFM=FB,
//          SPACE=(&SPACE01,(50,50),RLSE),
//          UNIT=(&UNITPERM,,DEFER),
//          VOL=(,RETAIN,,5)
//*
//LG001    DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.LOGFILE,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=80,
//          RECFM=FB,
//          SPACE=(&SPACE01,(100,50),RLSE),
//          UNIT=(&UNITPERM,,DEFER),
//          VOL=(,RETAIN,,5)
//*
//SYSABOUT  DD SYSOUT=*
//SYSDBOUT  DD SYSOUT=*
//SYSOUT    DD SYSOUT=*
//SYSPRINT  DD SYSOUT=*
//SYSUDUMP  DD SYSOUT=*
```

```
//*
//*
//TIRERRF  DD SYSOUT=*
//*
//TIRIOVF  DD DSN=NSLDS&ENV..&JOBNME..PSTEP030.IOVFILE,
//         DISP=(OLD,DELETE,KEEP)
//*
//TIRMSGF  DD SYSOUT=*
//*
//*
//         IF PSTEP040.RC NE 1000 THEN
//PSTEP041 EXEC PGM=CKRCODE
//         ENDIF
//*
//* ------------------ IDCAMS ---------------------
//*
//PSTEP050 EXEC PGM=IDCAMS
//*
//INPUT    DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.CURSUBMT,
//         DISP=(OLD,KEEP,KEEP)
//*
//* SETS RETURN CODE TO 4 IF FILE IS EMPTY
//*
//OUTPUT   DD SYSOUT=*
//*
//SYSIN    DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(PRBB1001),
//         DISP=SHR
//*
//SYSPRINT DD SYSOUT=*
//*
//         IF ((PSTEP050.RC NE 4) AND (PSTEP050.RC NE 8)) THEN
//PSTEP051 EXEC CKRCODE
//         ENDIF
//*
//*
//         IF PSTEP050.RC EQ 4 THEN
//PSTEP060 EXEC PGM=IEFBR14
//*
//DD1      DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.CURSUBMT,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//         IF PSTEP060.RC NE 0 THEN
//PSTEP061 EXEC CKRCODE
//         ENDIF
//         ENDIF
//*
//*
//PSTEP070 EXEC PGM=TIRIOVFI
//*
//TIRERRF  DD SYSOUT=*
//*
//TIRIOVF  DD DSN=NSLDS&ENV..&JOBNME..PSTEP070.IOVFILE,
//         BLKSIZE=0,
//         DISP=(NEW,CATLG,DELETE),
//         LRECL=4096,
```

```
//          RECFM=FB,
//          SPACE=(CYL,(1,1),RLSE),
//          UNIT=&UNITTEMP
//*
//TIRMSGF  DD SYSOUT=*
//*
//          IF PSTEP070.RC NE 110 THEN
//PSTEP071 EXEC PGM=CKRCODE
//          ENDIF
//*
//* ------------------- RBB200PB --------------------
//*
//PSTEP080 EXEC PGM=RBB200PB
//*
//SC002    DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.ERRFILE,
//          DISP=SHR
//*
//TEFFILE  DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(PUTB3000),
//          DISP=SHR
//*
//SC006    DD DSN=NSLDS&ENV..&JOBNME..PSTEP080.ERRORRPT,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=133,
//          RECFM=FBA,
//          SPACE=(&SPACE01,(10,10),RLSE),
//          UNIT=&UNITTEMP
//*
//*
//SYSABOUT DD SYSOUT=*
//SYSDBOUT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//*
//*
//TIRERRF  DD SYSOUT=*
//*
//TIRIOVF  DD DSN=NSLDS&ENV..&JOBNME..PSTEP070.IOVFILE,
//          DISP=(OLD,DELETE,KEEP)
//*
//TIRMSGF  DD SYSOUT=*
//*
//*
//          IF PSTEP080.RC NE 1000 THEN
//PSTEP081 EXEC PGM=CKRCODE
//          ENDIF
//*
//* ------------------- IEBGENER --------------------
//*
//PSTEP090 EXEC PGM=IEBGENER
//*
//*
//SYSIN     DD DUMMY
//*
//SYSPRINT  DD SYSOUT=*
//*
```

```
//SYSUT1    DD DSN=NSLDS&ENV..&JOBNME..PSTEP080.ERRORRPT,
//          DISP=(OLD,DELETE,KEEP)
//*
//SYSUT2    DD SYSOUT=*
//*
//*
//          IF PSTEP090.RC NE 0 THEN
//PSTEP091 EXEC PGM=CKRCODE
//          ENDIF
//*
//* ------------------ UTB300PB --------------------
//*
//PSTEP100 EXEC PGM=UTB300PB
//*
//SC001     DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.ERRFILE,
//          DISP=SHR
//*
//TEFFILE  DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(PUTB3000),
//          DISP=SHR
//*
//SC002     DD DSN=NSLDS&ENV..&JOBNME..PSTEP100.ERRORCNT,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=117,
//          RECFM=FB,
//          SPACE=(&SPACE01,(10,10),RLSE),
//          UNIT=&UNITTEMP
//*
//*
//SYSABOUT DD SYSOUT=*
//SYSDBOUT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//*
//          IF PSTEP100.RC NE 0 THEN
//PSTEP100 EXEC PGM=CKRCODE
//          ENDIF
//*
//*
//* ------------------- SORT     --------------------
//*
//PSTEP110 EXEC PGM=SORT
//*
//SORTIN    DD DSN=NSLDS&ENV..&JOBNME..PSTEP100.ERRORCNT,
//          DISP=SHR
//*
//SORTOUT  DD DSN=NSLDS&ENV..&JOBNME..PSTEP110.ERRORCNT,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=117,
//          RECFM=FB,
//          SPACE=(&SPACE01,(5,5),RLSE),
//          UNIT=(&UNITPERM,,DEFER),
//          VOL=(,RETAIN,,5)
//*
//SORTWK01 DD SPACE=(&SPACE01,(100,100)),
```

```
//         UNIT=&UNITTEMP
//*
//SORTWK02 DD SPACE=(&SPACE01,(100,100)),
//         UNIT=&UNITTEMP
//*
//SORTWK03 DD SPACE=(&SPACE01,(100,100)),
//         UNIT=&UNITTEMP
//*
//SYSIN    DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(&SORTPARM),
//         DISP=SHR
//*
//SYSOUT   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//*
//*
//         IF PSTEP110.RC NE 0 THEN
//PSTEP111 EXEC CKRCODE
//         ENDIF
//*
//* ------------------- UTB400PB -------------------
//*
//PSTEP120 EXEC PGM=UTB400PB
//*
//SC001    DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(&SORTPARM),
//         DISP=SHR
//*
//SC002    DD DSN=NSLDS&ENV..&JOBNME..PSTEP110.ERRORCNT,
//         DISP=SHR
//*
//SC003    DD DSN=NSLDS&ENV..&JOBNME..PSTEP120.ERRORSUM,
//         BLKSIZE=0,
//         DISP=(NEW,CATLG,DELETE),
//         LRECL=133,
//         RECFM=FBA,
//         SPACE=(&SPACE01,(10,10),RLSE),
//         UNIT=(&UNITPERM,,DEFER),
//         VOL=(,RETAIN,,5)
//*
//SYSABOUT DD SYSOUT=*
//SYSDBOUT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//*
//         IF PSTEP120.RC NE 0 THEN
//PSTEP121 EXEC CKRCODE
//         ENDIF
//*
//*
//* ------------------- IEBGENER -------------------
//*
//PSTEP130 EXEC PGM=IEBGENER
//*
//SYSIN    DD DUMMY
//*
//SYSPRINT DD SYSOUT=*
//*
```

```
//SYSUT1   DD DSN=NSLDS&ENV..&JOBNME..PSTEP120.ERRORSUM,
//         DISP=SHR
//*
//SYSUT2   DD SYSOUT=*
//*
//*
//         IF PSTEP120.RC NE 0 THEN
//PSTEP121 EXEC CKRCODE
//         ENDIF
//*
```

Step 4: JCL for NSLDS DataPrep Reporting

The following JCL executes the software to perform error reporting. This JCL will be used primarily to report any errors you receive from the Load Process Error File that you will receive from NSLDS after each submittal. It can also be used to report errors from the Extract Validation process.

This JCL may be referenced from the library created with JCLLIB as part of the name. The library member name is PRBB2000.

As with the Validation and Error Reporting JCL above, the option to sort the summary error report three different ways (by Error Count, Field Code, or Error Code) is available by changing the SET statement. See the SET statements in the in-stream JCL documentation below. The Detail Error Report is only sorted by SSN.

Remember that the first step in the JCL will delete any datasets previously created. If you want to save your previous error files, you may want to copy them to another file name.

The JCL includes a sample Load Process Error File containing 35 student/loan records for 3 different schools, all in 1 extract file. School 002021 has 11 errors, school 003554 has 7 errors, and school 004920 has 2 errors. This should be reported in the Detail Error Report and the Summary Error Report, which are outputs from this process.

DataPrep Reporting JCL

```
//PRBB2000 JOB (P75333AA-5100AAAA,066),'SCH ERROR RPT',
// CLASS=A,MSGCLASS=A,REGION=6M
//*
//* ------------------- RBB200PB -------------------
//* JOB DESCRIPTION
//*
//* REPOSITORY BUILD        - SCH EXTRACT OR LOAD ERROR REPORTING
//*
//* PSTEP010                - IEFBR14   DELETE FILES FROM PREVIOUS RUN
//* PSTEP020                - SORT      SORT EXTRACT/LOAD FILE BY SCH/SSN
//* PSTEP070                - TIRIOVFI  SPECIAL FOR COOL:GEN
//* PSTEP080                - RBB200PB  DETAIL ERROR REPORT
//* PSTEP090                - IEBGENER  PRINT DETAIL ERROR REPORT
//* PSTEP100                - UTB300PB  SUMMARY ERROR REPORT COUNTER
```

```
//* PSTEP110                    - SORT      SORT SUMMARY ERROR REPORT FILE
//* PSTEP120                    - UTB400PB  SUMMARY ERROR REPORT PROGRAM
//* PSTEP130                    - IEBGENER  PRINT SUMMARY ERROR REPORT
//*
//* ------------------------------------------------------
//*  THIS IS SAMPLE JCL THAT WILL GO TO THE DATA PROVIDER'S SITE.
//*  IT IS NOT TO BE RUN IN PRODUCTION AT NSLDS AND DOES NOT
//*  REFLECT NSLDS PROGRAMMING STANDARDS. THIS JCL IS SENT TO THE
//*  DATA PROVIDER AS A SUGGESTED SAMPLE AND ITS USE IS OPTIONAL.
//*
//          SET ENV=P
//          SET JOBNME=PRBB1000
//          SET LVLSET=LS990715
//          SET SPACE01=CYL
//          SET SRCNME01=RBB10000
//          SET UNITPERM=SYSDA
//*         SET UNITPERM=TAPE
//          SET UNITTEMP=SYSDA
//          SET VR=PROD
//          SET SC=SC
//*
//*         ERROR COUNT ORDER
//          SET SORTPARM=PUTB4001
//*
//*         FIELD CODE ORDER
//*         SET SORTPARM=PUTB4002
//*
//*         ERROR CODE ORDER
//*         SET SORTPARM=PUTB4003
//*
//*
//JOBLIB   DD DISP=SHR,DSN=NSLDS&ENV..&VR..&SC..LOAD.&LVLSET
//*
//* ------------------- IEFBR14  -------------------
//*
//PSTEP010 EXEC PGM=IEFBR14
//*
//DD5      DD DSN=NSLDS&ENV..&JOBNME..PSTEP070.IOVFILE,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD6      DD DSN=NSLDS&ENV..&JOBNME..PSTEP080.ERRORRPT,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD7      DD DSN=NSLDS&ENV..&JOBNME..PSTEP100.ERRORCNT,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
//DD8      DD DSN=NSLDS&ENV..&JOBNME..PSTEP110.ERRORCNT,
//         DISP=(MOD,DELETE,DELETE),
//         SPACE=(TRK,(1,1)),
//         UNIT=(&UNITPERM,,DEFER)
//*
```

```
//DD9       DD DSN=NSLDS&ENV..&JOBNME..PSTEP120.ERRORSUM,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//*
//DD10      DD DSN=NSLDS&ENV..&JOBNME..PSTEP020.EXTSORT,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(TRK,(1,1)),
//          UNIT=(&UNITPERM,,DEFER)
//*
//          IF PSTEP010.RC NE 0 THEN
//PSTEP011 EXEC PGM=CKRCODE
//          ENDIF
//*
//* ------------------ SORT     ------------------
//*
//PSTEP020 EXEC PGM=SORT
//*
//*
//SORTIN    DD DSN=NSLDS&ENV..&VR..&SC..LOADERR.&LVLSET,
//          DISP=SHR
//*
//SORTOUT   DD DSN=NSLDS&ENV..&JOBNME..PSTEP020.EXTSORT,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=300,
//          RECFM=FB,
//          SPACE=(&SPACE01,(1,1),RLSE),
//          UNIT=(&UNITPERM,,DEFER),
//          VOL=(,RETAIN,,5)
//*
//SORTWK01 DD SPACE=(&SPACE01,(100,100)),
//          UNIT=&UNITTEMP
//*
//SORTWK02 DD SPACE=(&SPACE01,(100,100)),
//          UNIT=&UNITTEMP
//*
//SORTWK03 DD SPACE=(&SPACE01,(100,100)),
//          UNIT=&UNITTEMP
//*
//SYSIN     DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(PRBB1000),
//          DISP=SHR
//*
//SYSOUT    DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//*
//*
//          IF PSTEP020.RC NE 0 THEN
//PSTEP021 EXEC CKRCODE
//          ENDIF
//*
//PSTEP070 EXEC PGM=TIRIOVFI
//*
//TIRERRF   DD SYSOUT=*
//*
//TIRIOVF   DD DSN=NSLDS&ENV..&JOBNME..PSTEP070.IOVFILE,
```

```
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=4096,
//          RECFM=FB,
//          SPACE=(CYL,(1,1),RLSE),
//          UNIT=&UNITTEMP
//*
//TIRMSGF  DD SYSOUT=*
//*
//          IF PSTEP070.RC NE 110 THEN
//PSTEP071 EXEC PGM=CKRCODE
//          ENDIF
//*
//* ------------------ RBB200PB -------------------
//*
//PSTEP080 EXEC PGM=RBB200PB
//*
//SC002    DD DSN=NSLDS&ENV..&JOBNME..PSTEP020.EXTSORT,
//          DISP=SHR
//*
//TEFFILE  DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(PUTB3000),
//          DISP=SHR
//*
//SC006    DD DSN=NSLDS&ENV..&JOBNME..PSTEP080.ERRORRPT,
//          BLKSIZE=0,
//          DISP=(NEW,CATLG,DELETE),
//          LRECL=133,
//          RECFM=FBA,
//          SPACE=(&SPACE01,(10,10),RLSE),
//          UNIT=&UNITTEMP
//*
//*
//SYSABOUT DD SYSOUT=*
//SYSDBOUT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//*
//*
//TIRERRF  DD SYSOUT=*
//*
//TIRIOVF  DD DSN=NSLDS&ENV..&JOBNME..PSTEP070.IOVFILE,
//          DISP=(OLD,DELETE,KEEP)
//*
//TIRMSGF  DD SYSOUT=*
//*
//*
//          IF PSTEP080.RC NE 1000 THEN
//PSTEP081 EXEC PGM=CKRCODE
//          ENDIF
//*
//* ------------------ IEBGENER -------------------
//*
//PSTEP090 EXEC PGM=IEBGENER
//*
//*
//SYSIN      DD DUMMY
```

```
//*
//SYSPRINT  DD SYSOUT=*
//*
//SYSUT1    DD DSN=NSLDS&ENV..&JOBNME..PSTEP080.ERRORRPT,
//          DISP=SHR
//*
//SYSUT2    DD SYSOUT=*
//*
//*
//         IF PSTEP090.RC NE 0 THEN
//PSTEP091 EXEC PGM=CKRCODE
//         ENDIF
//*
//* ------------------ UTB300PB -------------------
//*
//PSTEP100 EXEC PGM=UTB300PB
//*
//SC001    DD DSN=NSLDS&ENV..&JOBNME..PSTEP040.ERRFILE,
//         DISP=SHR
//*
//TEFFILE  DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(PUTB3000),
//         DISP=SHR
//*
//SC002    DD DSN=NSLDS&ENV..&JOBNME..PSTEP100.ERRORCNT,
//         BLKSIZE=0,
//         DISP=(NEW,CATLG,DELETE),
//         LRECL=117,
//         RECFM=FB,
//         SPACE=(&SPACE01,(10,10),RLSE),
//         UNIT=&UNITTEMP
//*
//*
//SYSABOUT DD SYSOUT=*
//SYSDBOUT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//*
//         IF PSTEP100.RC NE 0 THEN
//PSTEP100 EXEC PGM=CKRCODE
//         ENDIF
//*
//*
//* ------------------ SORT     -------------------
//*
//PSTEP110 EXEC PGM=SORT
//*
//SORTIN   DD DSN=NSLDS&ENV..&JOBNME..PSTEP100.ERRORCNT,
//         DISP=SHR
//*
//SORTOUT  DD DSN=NSLDS&ENV..&JOBNME..PSTEP110.ERRORCNT,
//         BLKSIZE=0,
//         DISP=(NEW,CATLG,DELETE),
//         LRECL=117,
//         RECFM=FB,
//         SPACE=(&SPACE01,(5,5),RLSE),
//         UNIT=(&UNITPERM,,DEFER),
```

```
//           VOL=(,RETAIN,,5)
//*
//SORTWK01 DD SPACE=(&SPACE01,(100,100)),
//           UNIT=&UNITTEMP
//*
//SORTWK02 DD SPACE=(&SPACE01,(100,100)),
//           UNIT=&UNITTEMP
//*
//SORTWK03 DD SPACE=(&SPACE01,(100,100)),
//           UNIT=&UNITTEMP
//*
//SYSIN    DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(&SORTPARM),
//           DISP=SHR
//*
//SYSOUT   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//*
//*
//         IF PSTEP110.RC NE 0 THEN
//PSTEP111 EXEC CKRCODE
//         ENDIF
//*
//* ------------------- UTB400PB -------------------
//*
//PSTEP120 EXEC PGM=UTB400PB
//*
//SC001    DD DSN=NSLDS&ENV..&VR..&SC..CNTL.&LVLSET(&SORTPARM),
//           DISP=SHR
//*
//SC002    DD DSN=NSLDS&ENV..&JOBNME..PSTEP110.ERRORCNT,
//           DISP=SHR
//*
//SC003    DD DSN=NSLDS&ENV..&JOBNME..PSTEP120.ERRORSUM,
//           BLKSIZE=0,
//           DISP=(NEW,CATLG,DELETE),
//           LRECL=133,
//           RECFM=FBA,
//           SPACE=(&SPACE01,(10,10),RLSE),
//           UNIT=(&UNITPERM,,DEFER),
//           VOL=(,RETAIN,,5)
//*
//SYSABOUT DD SYSOUT=*
//SYSDBOUT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//*
//         IF PSTEP120.RC NE 0 THEN
//PSTEP121 EXEC CKRCODE
//         ENDIF
//*
//*
//* ------------------- IEBGENER -------------------
//*
//PSTEP130 EXEC PGM=IEBGENER
//*
//SYSIN    DD DUMMY
```

```
//*
//SYSPRINT DD SYSOUT=*
//*
//SYSUT1   DD DSN=NSLDS&ENV..&JOBNME..PSTEP120.ERRORSUM,
//         DISP=SHR
//*
//SYSUT2   DD SYSOUT=*
//*
//*
//         IF PSTEP120.RC NE 0 THEN
//PSTEP121 EXEC CKRCODE
//         ENDIF
//*
```