

# THE COMPLETE JOB CONTROL LANGUAGE COURSE

Programs used



[www.MainframeNation.com](http://www.MainframeNation.com)

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## Programs used

### 1. Create a PS dataset

```
//CREATEPS JOB CLASS=A, NOTIFY=&SYSUID, MSGLEVEL=(1,1), MSGCLASS=A 00010000
//***** JCL TO CREATE A PS DATASET
//***** 00011000
//***** 00012000
//***** 00013000
//STEP010 EXEC PGM=IEFBR14 00020000
//DD1 DD DSN=ABHI.COURSE.PS, 00030000
//      DISP=(MOD,CATLG,DELETE), 00040000
//      SPACE=(TRK,(10,100),RLSE), 00050000
//      DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS) 00060000
//DD2 DD DSN=ABHI.COURSE.PS2, 00061000
//      DISP=(MOD,CATLG,DELETE), 00062000
//      SPACE=(TRK,(10,100),RLSE), 00063000
//      DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS) 00064000
/*
/* 00070000
```

### 2. Create a PDS dataset

```
//CREATPDS JOB CLASS=A, PRTY=15, MSGCLASS=A, MSGLEVEL=(1,1), NOTIFY=&SYSUID 00010000
//***** 00020000
//***** JCL TO CREATE A PDS DATASET 00030000
//***** 00040000
//STEP010 EXEC PGM=IEFBR14 00050000
//DD1 DD DSN=ABHI.COURSE.PDS, 00060000
//      DISP=(NEW,CATLG,DELETE), 00070000
//      SPACE=(CYL,(10,100,4),RLSE), 00080000
//      DCB=(LRECL=80,BLKSIZE=800,RECFM=FB,DSORG=PO) 00090000
// 00100001
//STEP020 EXEC PGM=IEFBR14 00110001
//DD1 DD DSN=ABHI.COURSE.PDS2, 00120001
//      DISP=(NEW,CATLG,DELETE), 00130001
//      SPACE=(CYL,(10,100,4),RLSE), 00140001
//      DCB=(LRECL=80,BLKSIZE=800,RECFM=FB,DSORG=PO) 00150001
/*
/* 00160001
```

### 3. Create a PDS dataset member

```
//CREATMEM JOB CLASS=A, PRTY=15, MSGCLASS=A, MSGLEVEL=(1,1), NOTIFY=&SYSUID 00020001
//***** 00030001
//***** JCL TO CREATE A PDS DATASET MEMBER 00040001
//***** 00050001
//STEP010 EXEC PGM=IEBGENER 00060001
//SYSUT1 DD *
//SYSUT2 DD DSN=ABHI.COURSE.PDS(MEMBER1), 00070101
//      DISP=SHR 00080001
//SYSIN DD DUMMY 00090001
//SYSPRINT DD SYSOUT=* 00100001
/*
/* 00110001
```



## 4. Delete a PS dataset

```
//DELPS JOB CLASS=A, PRTY=15, MSGCLASS=A, MSGLEVEL=(1,1), NOTIFY=&SYSUID      00020001
//*****                                         *****
//*****          JCL TO DELETE A PS DATASET
//*****                                         *****
//STEP010 EXEC PGM=IEFBR14                           00060001
//DD1      DD DSN=ABHI.COURSE.PS,                   00070001
//                                DISP=(OLD,DELETE,DELETE) 00080001
/*
/*                                         00090001
```

## 5. Delete a PDS dataset

```
//DELPS JOB CLASS=A, PRTY=15, MSGCLASS=A, MSGLEVEL=(1,1), NOTIFY=&SYSUID      00020000
//*****                                         *****
//*****          JCL TO DELETE A PDS DATASET
//*****                                         *****
//STEP010 EXEC PGM=IEFBR14                           00060000
//DD1      DD DSN=ABHI.COURSE.PDS,                   00070001
//                                DISP=(OLD,DELETE,DELETE) 00080000
/*
/*                                         00090000
```

## 6. Delete a PDS dataset member

```
//DELMEM JOB CLASS=A, PRTY=15, MSGCLASS=A, MSGLEVEL=(1,1), NOTIFY=&SYSUID      00020001
//*****                                         *****
//*****          JCL TO DELETE A PDS DATASET MEMBER
//*****                                         *****
//STEP010 EXEC PGM=IDCAMS                           00060001
//DD1      DD DSN=ABHI.COURSE.PDS,                   00070000
//                                DISP=SHR           00080001
//SYSPRINT DD SYSOUT=*                            00081001
//SYSIN    DD *                                     00082001
//                                DELETE 'ABHI.COURSE.PDS(MEMBER1)' FILE(DD1) 00083001
/*
/*                                         00090000
```

## 7. Create a GDG

```
//CREGDG JOB CLASS=A, NOTIFY=&SYSUID, MSGLEVEL=(1,1), MSGCLASS=A,             00020000
//                                PRTY=15                               00030000
//*****                                         *****
//*****          JCL TO CREATE A GDG
//*****                                         *****
//STEP010 EXEC PGM=IDCAMS                          00110000
//SYSPRINT DD SYSOUT=*                            00120000
//SYSIN    DD *                                     00130000
//                                DEFINE GDG(NAME(BANK.CUSTOMER.MONTHLY)      -
//                                LIMIT(12)                                -
//                                NOEMPTY                                 -
//                                SCRATCH                                -
/*
//                                         00140000
//                                         00150000
//                                         00160000
//                                         00170000
//                                         00180000
```

## 8. Create a GDG Generation

```
//CREGEN  JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A,          00010000
//                           PRTY=15                                         00020000
//*****                                                 *****                                         00030000
//*****      JCL TO CREATE A GDG GENERATION                         00040000
//*****                                                 *****                                         00050000
//STEP010 EXEC PGM=IEFBR14                                         00060000
//DD1      DD DSN=ABHI.COURSE.GDG(+1),                                00070003
//                           DISP=(NEW,CATLG,DELETE),                         00071000
//                           SPACE=(TRK,(100,100),RLSE),                         00072000
//                           DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS) 00073000
//SYSPRINT DD SYSOUT=*                                         00080000
/*                                         00130000
```

## 9. Create a KSDS

```
//CREKSDS  JOB CLASS=A,MSGLEVEL=(1,1),MSGCLASS=A,NOTIFY=&SYSUID,          00010007
//                           PRTY=15                                         00020007
///*
//*      >>> CREATE A KSDS <<<
//*
//STEP010 EXEC PGM=IDCAMS                                         00070007
//SYSPRINT DD SYSOUT=*                                         00080007
//SYSIN    DD *                                          
      DEFINE CLUSTER(                                     -
        NAME(ABHI.COURSE.KSDS5)           -
        INDEXED                                     -
        KEYS(5 0)                                    -
        RECSZ(200 200)                            -
        FREESPACE(10 20)                           -
        TRACKS(50 30)                             -
        CISZ(4096)                                 -
        VOLUME(ZASYS1))                           00100007
/*
                                         00110012
                                         00120007
                                         00130007
                                         00140009
                                         00150007
                                         00160007
                                         00170007
                                         00180007
                                         00190007
```

## 10. Create an ESDS

```
//CREESDS  JOB CLASS=A,MSGLEVEL=(1,1),MSGCLASS=A,NOTIFY=&SYSUID,          00010003
//                           PRTY=15                                         00020003
///*
//*      >>> CREATE AN ESDS <<<
//*
//STEP010 EXEC PGM=IDCAMS                                         00060003
//SYSPRINT DD SYSOUT=*                                         00070003
//SYSIN    DD *                                          
      DEFINE CLUSTER(                                     -
        NAME(ABHI.COURSE.ESDS)           -
        NONINDEXED                     -
        RECSZ(200 200)                  -
        FREESPACE(10 10)                -
        CISZ(8192)                      -
        TRACKS(20 20)                   -
        VOLUME(ZASYS1))                00090003
                                         00100007
                                         00110003
                                         00120005
                                         00130003
                                         00140003
                                         00150003
                                         00160003
                                         00170003
```

## 11. Create a RRDS

```
//CRERRDS JOB CLASS=A,MSGLEVEL=(1,1),MSGCLASS=A,NOTIFY=&SYSUID,          00010006
//                           PRTY=15                                     00020006
//*
//*           >>> CREATE A RRDS <<<
//*
//STEP010 EXEC PGM=IDCAMS                                         00030006
//SYSPRINT   DD SYSOUT=*                                         00040006
//SYSIN      DD *                                           00050006
//                                         DEFINE CLUSTER (           00060006
//                                         NAME (ABHI.COURSE.RRDS)      00070006
//                                         NUMBERED                      00080006
//                                         RECSZ(200 200)                00090006
//                                         CISZ(4096)                   00100011
//                                         TRACKS(20 20)                 00110006
//                                         VOLUME(ZASYS1)                00120007
//                                         FREESPACE(10 10))             00130007
//                                         -                                00140006
//                                         -                                00150006
//                                         -                                00160006
//                                         -                                00170006
/*
/*
```

## 12. Create a LDS

```
//CRELDS  JOB CLASS=A,MSGLEVEL=(1,1),MSGCLASS=A,NOTIFY=&SYSUID,          00010005
//                           PRTY=15                                     00020005
//*
//*           >>> CREATE A LDS <<<
//*
//STEP010 EXEC PGM=IDCAMS                                         00030005
//SYSPRINT   DD SYSOUT=*                                         00040005
//SYSIN      DD *                                           00050005
//                                         DEFINE CLUSTER (           00060005
//                                         NAME (ABHI.COURSE.LDS)      00070005
//                                         LINEAR                      00080005
//                                         CISZ(4096)                   00090005
//                                         TRACKS(20 20)                 00100006
//                                         VOLUME(ZASYS1)                00110005
//                                         -                                00120005
//                                         -                                00130005
//                                         -                                00140005
//                                         -                                00150005
/*
/*
```

## 13. LISTCAT a VSAM

```
//LISTCAT JOB CLASS=A,MSGLEVEL=(1,1),MSGCLASS=A,NOTIFY=&SYSUID,          00010000
//                           PRTY=15                                     00020000
//*
//*           >>> LISTCAT A VSAM    <<<
//*
//STEP010 EXEC PGM=IDCAMS                                         00030000
//SYSPRINT   DD SYSOUT=*                                         00040000
//SYSIN      DD *                                           00050000
//                                         LISTCAT ENTRY(ABHI.COURSE.RRDS) - 00060000
//                                         ALL                            00070000
//                                         00080000
//                                         00090000
//                                         00100000
//                                         00110000
/*
/*
```



## 14. REPRO - KSDS to PS

```
//REPDKSKS JOB CLASS=A, NOTIFY=&SYSUID, MSGLEVEL=(1,1), MSGCLASS=A,  
// PRTY=15  
/*  
/* >>> JCL TO COPY FROM KSDS TO PS <<<  
/*  
//STEP010 EXEC PGM=IDCAMS  
//SYSPRINT DD SYSOUT=*  
/*  
//KSDSFILE DD DISP=SHR, DSN=ABHI.COURSE.KSDS  
//PSFILE DD DISP=SHR, DSN=ABHI.COURSE.PS  
/*  
//SYSIN DD *  
    REPRO INFILE(KSDSFILE) -  
        OUTFILE(PSFILE)  
/*
```

## 15. REPRO - PS to KSDS

```
//REPPSKS JOB CLASS=A, MSGLEVEL=(1,1), MSGCLASS=A, NOTIFY=&SYSUID,  
// PRTY=15  
/*  
/* >>> REPRO FROM PS TO KSDS <<<  
/*  
//STEP010 EXEC PGM=IDCAMS  
//SYSPRINT DD SYSOUT=*  
//SYSOUT DD SYSOUT=*  
/*  
//PSFILE DD DISP=SHR, DSN=ABHI.COURSE.PS  
//KSDSFILE DD DISP=SHR, DSN=ABHI.COURSE.KSDS  
/*  
//SYSIN DD *  
    REPRO INFILE(PSFILE) -  
        OUTFILE(KSDSFILE)  
/*
```

## 16. REPRO - PS to ESDS

```
//REPPSES JOB CLASS=A, NOTIFY=&SYSUID, MSGLEVEL=(1,1), MSGCLASS=A,  
// PRTY=15  
/*  
/* >>> JCL TO COPY FROM PS TO ESDS <<<  
/*  
//STEP010 EXEC PGM=IDCAMS  
//SYSPRINT DD SYSOUT=*  
/*  
//PSFILE DD DISP=SHR, DSN=ABHI.COURSE.PS  
//ESDSFILE DD DISP=SHR, DSN=ABHI.COURSE.ESDS  
/*  
//SYSIN DD *  
    REPRO INFILE(PSFILE) -  
        OUTFILE(ESDSFILE)  
/*
```

## 17. REPRO - PS to RRDS

```
//REPPSRR JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A,          00010001
//                           PRTY=15                                         00020001
//*
//*           >>>> JCL TO COPY FROM PS TO RRDS <<<<
//*
//STEP010 EXEC PGM=IDCAMS                                         00030001
//SYSPRINT DD SYSOUT=*                                         00040001
//*
//PSFILE   DD DISP=SHR,DSN=ABHI.COURSE.PS                      00050001
//RRDSFILE DD DISP=SHR,DSN=ABHI.COURSE.RRDS                     00060001
//*
//SYSIN    DD *
      REPRO INFIL(PSFILE) -                                     00070001
                  OUTFIL(RRDSFILE)                                00081002
/*
      REPRO INFIL(PSFILE) -                                     00082003
                  OUTFIL(RRDSFILE)                                00083004
/*
//SYSIN    DD *
      REPRO INFIL(PSFILE) -                                     00084002
                  OUTFIL(RRDSFILE)                                00085002
/*
      REPRO INFIL(PSFILE) -                                     00086005
                  OUTFIL(RRDSFILE)                                00087005
/*
      REPRO INFIL(PSFILE) -                                     00088002
```

## 18. REPRO - RRDS to RRDS

```
//REPRRRR JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A,          00010000
//                           PRTY=15                                         00020000
//*
//*           >>>> JCL TO COPY FROM RRDS TO RRDS <<<<
//*
//STEP010 EXEC PGM=IDCAMS                                         00030000
//SYSPRINT DD SYSOUT=*                                         00040000
//*
//RRFILE   DD DISP=SHR,DSN=ABHI.COURSE.RRDS                     00050000
//RRFILE1  DD DISP=SHR,DSN=ABHI.COURSE.RRDS1                    00060000
//*
//SYSIN    DD *
      REPRO INFIL(RRFILE) -                                     00070000
                  OUTFIL(RRFILE1)                                00080000
/*
      REPRO INFIL(RRFILE) -                                     00090001
                  OUTFIL(RRFILE1)                                00100001
/*
//SYSIN    DD *
      REPRO INFIL(RRFILE) -                                     00110000
                  OUTFIL(RRFILE1)                                00120000
/*
      REPRO INFIL(RRFILE) -                                     00130000
                  OUTFIL(RRFILE1)                                00140000
/*
      REPRO INFIL(RRFILE) -                                     00150000
```

## 19. REPRO - ESDS to ESDS

```
//REPESES JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A,          00010000
//                           PRTY=15                                         00020000
//*
//*           >>>> JCL TO COPY FROM ESDS TO ESDS <<<<
//*
//STEP010 EXEC PGM=IDCAMS                                         00030000
//SYSPRINT DD SYSOUT=*                                         00040000
//*
//ESFILE   DD DISP=SHR,DSN=ABHI.COURSE.ESDS                     00050000
//ESFILE1  DD DISP=SHR,DSN=ABHI.COURSE.ESDS1                    00060000
//*
//SYSIN    DD *
      REPRO INFIL(ESFILE) -                                     00070000
                  OUTFIL(ESFILE1)                                00080000
/*
      REPRO INFIL(ESFILE) -                                     00090000
                  OUTFIL(ESFILE1)                                00100000
/*
//SYSIN    DD *
      REPRO INFIL(ESFILE) -                                     00110000
                  OUTFIL(ESFILE1)                                00120000
/*
      REPRO INFIL(ESFILE) -                                     00130000
                  OUTFIL(ESFILE1)                                00140000
```

## 20. Compare PS datasets

```
//IEBCOMP  JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000108
//*
//*                                >> COMPARE TWO PS DATASETS <<
//*
//STEP1    EXEC PGM=IEBCOMPR                                         00000508
//SYSUT1   DD DSN=ABHI.COURSE.PS1,DISP=SHR   <--- DATASETS TO COMPARE 00000608
//SYSUT2   DD DSN=ABHI.COURSE.PS2,DISP=SHR   <--- DATASETS TO COMPARE 00000708
//SYSPRINT  DD SYSOUT=*
//SYSOUT    DD SYSOUT=*
//SYSIN     DD *
                               COMPARE TYPORG=PS      <----- FILE IS PS        00000808
/*                                                 00000908
                                         00001008
                                         00001108
                                         00001208
```

## 21. Compare PDS datasets

```
//IEBCOMP2 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000105
//*
//*                                >> COMPARE TWO PDS DATASETS <<
//*
//STEP1    EXEC PGM=IEBCOMPR                                         00000505
//SYSUT1   DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <--- DATASETS TO COMPARE 00000605
//SYSUT2   DD DSN=ABHI.COURSE.PDS4,DISP=SHR   <--- DATASETS TO COMPARE 00000705
//SYSPRINT  DD SYSOUT=*
//SYSOUT    DD SYSOUT=*
//SYSIN     DD *
                               COMPARE TYPORG=PO      <----- FILE IS PDS        00000805
/*                                                 00000905
                                         00001005
                                         00001105
                                         00001205
```

## 22. Copy one PDS to another

```
//IEBCOPY  JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000109
//*
//*                                >> COPY ONE PDS TO ANOTHER <<
//*
//STEP1    EXEC PGM=IEBCOPY                                         00000508
//DD1       DD DSN=ABHI.COURSE.PDS2,DISP=SHR   <--- INPUT DATASET    00000610
//DD2       DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <--- OUTPUT DATASET   00000710
//SYSPRINT  DD SYSOUT=*
//SYSOUT    DD SYSOUT=*
//SYSIN     DD *
                               COPY OUTDD=DD2      <--- DD NAME OF OUTPUT DATASET 00000808
                                         INDD=DD1      <--- DD NAME OF INPUT DATASET 00000908
/*                                                 00001008
                                         00001110
                                         00001210
                                         00001308
```

## 23. Copy one PDS to another using SYSUT

```
//IEBCOPY1 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000102
//*
//*           >> COPY ONE PDS TO ANOTHER USING SYSUT <<
//*
//STEP1      EXEC PGM=IEBCOPY
//SYSUT1      DD DSN=ABHI.COURSE.PDS2,DISP=SHR   <--- INPUT DATASET    00000603
//SYSUT2      DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <--- OUTPUT DATASET   00000703
//SYSPRINT    DD SYSOUT=*
//SYSOUT      DD SYSOUT=*
//SYSIN       DD DUMMY
/*
/*
```

## 24. Merge Datasets

```
//IEBCOPY2 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000102
//*
//*           >> MERGE DATASETS <<
//*
//STEP1      EXEC PGM=IEBCOPY
//DD1        DD DSN=ABHI.COURSE.PDS2,DISP=SHR   <---- INPUT DATASET  00000602
//DD2        DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <---- INPUT DATASET  00000702
//DD3        DD DSN=ABHI.COURSE.PDS4,DISP=SHR   <---- OUTPUT DATASET 00000802
//SYSPRINT    DD SYSOUT=*
//SYSOUT      DD SYSOUT=*
//SYSIN       DD *
                  COPY OUTDD=DD3           <--- DD NAME OF OUTPUT DATASET 00001202
                               INDD=DD1           <--- DD NAME OF INPUT DATASET 00001302
                               INDD=DD2           <--- DD NAME OF INPUT DATASET 00001402
/*
/*
```

## 25. SELECTive Copy

```
//IEBCOPY3 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000104
//*
//*           >> SELECTIVE COPY <<
//*
//STEP1      EXEC PGM=IEBCOPY
//DD1        DD DSN=ABHI.COURSE.PDS2,DISP=SHR   <--- INPUT DATASET  00000604
//DD2        DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <--- INPUT DATASET  00000704
//DD3        DD DSN=ABHI.COURSE.PDS4,DISP=SHR   <--- OUTPUT DATASET 00000804
//SYSPRINT    DD SYSOUT=*
//SYSOUT      DD SYSOUT=*
//SYSIN       DD *
                  COPY OUTDD=DD3           <--- DD NAME OF OUTPUT DATASET 00001204
                               INDD=DD1           <--- DD NAME OF INPUT DATASET 00001304
                               INDD=DD2           <--- DD NAME OF INPUT DATASET 00001404
                  SELECT MEMBER=(MEMBER2, MEMBER4, MEMBER5) <-- MEMBERS TO BE COPIED 00001504
/*
/*
```

## 26. Rename member while copying

```
//IEBCOPY4 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000103
//*
//*
//>> RENAME MEMBER WHILE COPYING <<
//*
//STEP1  EXEC PGM=IEBCOPY
//DD2      DD DSN=ABHI.COURSE.PDS2,DISP=SHR   <-- INPUT  DATASET    00000603
//DD3      DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <-- INPUT  DATASET    00000703
//DD4      DD DSN=ABHI.COURSE.PDS4,DISP=SHR   <-- OUTPUT DATASET    00000803
//SYSPRINT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSIN    DD *
              COPY OUTDD=DD4           <--- DD NAME OF OUTPUT DATASET 00001203
                  INDD=DD2           <--- DD NAME OF INPUT  DATASET 00001303
                  INDD=DD3           <--- DD NAME OF INPUT  DATASET 00001403
              SELECT MEMBER=( (MEMBER1,NEW1), MEMBER2) <-- MEMBER TO RENAME 00001503
/*
               00001603
```

## 27. Replace member while copying

```
//IEBCOPY5 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000106
//*
//*
//>> REPLACE MEMBER WHILE COPYING <<
//*
//STEP1  EXEC PGM=IEBCOPY
//DD2      DD DSN=ABHI.COURSE.PDS2,DISP=SHR   <-- INPUT  DATASET    00000606
//DD3      DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <-- INPUT  DATASET    00000706
//DD4      DD DSN=ABHI.COURSE.PDS4,DISP=SHR   <-- OUTPUT DATASET    00000806
//SYSPRINT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSIN    DD *
              COPY OUTDD=DD4           <--- DD NAME OF OUTPUT DATASET 00001206
                  INDD=DD2           <--- DD NAME OF INPUT  DATASET 00001306
                  INDD=DD3           <--- DD NAME OF INPUT  DATASET 00001406
              SELECT MEMBER=( (MEMBER2,,R) ) <-- MEMBER TO REPLACE    00001506
/*
               00001606
```

## 28. Compress a PDS

```
//IEBCOPY6 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000103
//*
//*
//>> COMPRESS A PDS <<
//*
//STEP1  EXEC PGM=IEBCOPY
//DD1      DD DSN=ABHI.COURSE.PDS5,DISP=SHR   <-- DATASET TO COMPRESS 00000603
//SYSPRINT DD SYSOUT=*
//SYSOUT   DD SYSOUT=*
//SYSIN    DD *
              COPY OUTDD=DD1           <--- SAME DDNAME IN INDD AND OUTDD 00001003
                  INDD=DD1           <--- SAME DDNAME IN INDD AND OUTDD 00001103
/*
               00001203
```

## 29. Exclude members while copying

```
//IEBCOPY7 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000102
//*
//*           >> EXCLUDE MEMBERS WHILE COPYING <<
//*
//STEP1      EXEC PGM=IEBCOPY
//DD1        DD DSN=ABHI.COURSE.PDS2,DISP=SHR   <-- INPUT DATASET    00000602
//DD2        DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <-- INPUT DATASET    00000702
//DD3        DD DSN=ABHI.COURSE.PDS4,DISP=SHR   <-- OUTPUT DATASET   00000802
//SYSPRINT   DD SYSOUT=*
//SYSOUT     DD SYSOUT=*
//SYSIN      DD *
              COPY OUTDD=DD3      <-- DDNAME OF OUTPUT DATASET 00001202
                  INDD=DD1      <-- DDNAME OF INPUT DATASET 00001302
                  INDD=DD2      <-- DDNAME OF INPUT DATASET 00001402
              EXCLUDE MEMBER=(MEMBER4, MEMBER1) <--- MEMBERS TO IGNORE 00001502
/*
                                         00001602
```

## 30. Rename and Replace while copying

```
//IEBCOPY8 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000100
//*
//*           >> RENAME AND REPLACE MEMBER WHILE COPYING <<
//*
//STEP1      EXEC PGM=IEBCOPY
//DD2        DD DSN=ABHI.COURSE.PDS2,DISP=SHR   <-- INPUT DATASET    00000600
//DD3        DD DSN=ABHI.COURSE.PDS3,DISP=SHR   <-- INPUT DATASET    00000700
//DD4        DD DSN=ABHI.COURSE.PDS4,DISP=SHR   <-- OUTPUT DATASET   00000800
//SYSPRINT   DD SYSOUT=*
//SYSOUT     DD SYSOUT=*
//SYSIN      DD *
              COPY OUTDD=DD4      <--- DD NAME OF OUTPUT DATASET 00001200
                  INDD=DD2      <--- DD NAME OF INPUT DATASET 00001300
                  INDD=DD3      <--- DD NAME OF INPUT DATASET 00001400
              SELECT MEMBER=( (MEMBER1, MEMBER2, R) ) <-- MEMBER TO RENAME/REPLACE 00001500
/*
                                         00001600
```

## 31. Copy whole job into another dataset

```
//EDIT1      JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000100
//*
//*           >> copy whole job into another dataset <<
//*
//STEP1      EXEC PGM=IEBEDIT
//SYSUT1     DD DSN=ABHI.COURSE.PS1,DISP=SHR  00000600
//SYSUT2     DD DSN=ABHI.COURSE.PS2,DISP=SHR  00000700
//SYSPRINT   DD SYSOUT=*
//SYSOUT     DD SYSOUT=*
//SYSIN      DD *
              EDIT START=COPY1
/*
                                         00001200
```

### 32. Copy multiple job into another dataset

```
//EDIT1      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000100
//*
//*          >> copy multiple job into another dataset <<
//*
//STEP1      EXEC PGM=IEBEDIT                                         00000500
//SYSUT1      DD   DSN=ABHI.COURSE.PS1,DISP=SHR                         00000600
//SYSUT2      DD   DSN=ABHI.COURSE.PS3,DISP=SHR                         00000700
//SYSPRINT    DD   SYSOUT=*                                            00000800
//SYSOUT      DD   SYSOUT=*                                            00000900
//SYSIN       DD   *                                                 00001000
//                           EDIT START=COPY1                                00001100
//                           EDIT START=COPY2                                00001200
/*
                                         00001300
```

### 33. Copy steps using INCLUDE and EXCLUDE

```
//EDIT1      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000100
//*
//*          >> copy steps using include and exclude <<
//*
//STEP1      EXEC PGM=IEBEDIT                                         00000500
//SYSUT1      DD   DSN=ABHI.COURSE.PS1,DISP=SHR                         00000600
//SYSUT2      DD   DSN=ABHI.COURSE.PS3,DISP=SHR                         00000700
//SYSPRINT    DD   SYSOUT=*                                            00000800
//SYSOUT      DD   SYSOUT=*                                            00000900
//SYSIN       DD   *                                                 00001000
//                           EDIT START=COPY1,TYPE=EXCLUDE,STEPNAME=STEPA     00001102
//                           EDIT START=COPY2,TYPE=INCLUDE,STEPNAME=STEPB      00001202
                                         00001300
/*
                                         00001300
```

### 34. Copy steps using POSITION member

```
//EDIT3      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01          00000100
//*
//*          >> copy steps using position parameter <<
//*
//STEP1      EXEC PGM=IEBEDIT                                         00000500
//SYSUT1      DD   DSN=ABHI.COURSE.PS1,DISP=SHR                         00000600
//SYSUT2      DD   DSN=ABHI.COURSE.PS3,DISP=SHR                         00000700
//SYSPRINT    DD   SYSOUT=*                                            00000800
//SYSOUT      DD   SYSOUT=*                                            00000900
//SYSIN       DD   *                                                 00001000
//                           EDIT START=COPY1,TYPE=POSITION,STEPNAME=STEPB    00001100
/*
                                         00001200
```

### 35. List a PDS

```
//LIST      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01      00000100
//*
//*          >> LIST a PDS <<
//*
//STEP1    EXEC PGM=IEHLIST                                         00000500
//DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR               00000600
//SYSPRINT DD   SYSOUT=*                                           00000700
//SYSOUT   DD   SYSOUT=*                                           00000800
//SYSIN    DD   *                                                 00000900
//          LISTPDS DSNAME=ABHI.COURSE.PDS1,VOLUME=DISK=PUB000      00001000
/*
*                                                 00001100
```

### 36. List a VTOC

```
//LIST1     JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01      00000100
//*
//*          >> LIST a VTOC <<
//*
//STEP1    EXEC PGM=IEHLIST                                         00000500
//DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR               00000600
//SYSPRINT DD   SYSOUT=*                                           00000700
//SYSOUT   DD   SYSOUT=*                                           00000800
//SYSIN    DD   *                                                 00000900
//          LISTVTOC FORMAT,VOLUME=DISK=PUB000                      00001000
/*
*                                                 00001100
```

### 37. SCRATCH, UNCATALOG a dataset

```
//PROG      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01      00000101
//*
//*          >> scratch, uncatlg a Datast <<
//*
//STEP1    EXEC PGM=IEHPROGM                                         00000500
//DD1       DD   UNIT=DISK,VOLUME=SER=PUB001,DISP=SHR               00000600
//SYSPRINT DD   SYSOUT=*                                           00000700
//SYSOUT   DD   SYSOUT=*                                           00000800
//SYSIN    DD   *                                                 00000900
//          SCRATCH DSNAME=ABHI.COURSE.PS0,VOL=DISK=PUB001           00001000
//          UNCATLG DSNAME=ABHI.COURSE.PS0                           00001100
/*
*                                                 00001200
```

### 38. UNCATALOG a dataset

```
//PROG1     JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01      00000101
//*
//*          >> uncatlg a Datast <<
//*
//STEP1    EXEC PGM=IEHPROGM                                         00000500
//DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR               00000601
//SYSPRINT DD   SYSOUT=*                                           00000700
//SYSOUT   DD   SYSOUT=*                                           00000800
//SYSIN    DD   *                                                 00000900
//          UNCATLG DSNAME=ABHI.COURSE.PS1                          00001001
/*
*                                                 00001100
```

## 39. SORT a field

```
//SORT1      JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                      PRTY=15                                         00020000
//*
//*                                >>>>  SORT BY RELEASE YEAR    <<<<<<<
//*
//STEP1      EXEC PGM=SORT                                         00050013
//SORTIN     DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                  00060013
//SORTOUT    DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR             00070013
//SYSPRINT   DD   SYSOUT=*                                       00080013
//SYSOUT     DD   SYSOUT=*                                       00090013
//SYSIN      DD   *                                           00100013
//                                     SORT FIELDS=(1,88,CH,A)           00110013
/*
                                         00120013
                                         00130013
```

## 40. SORT multiple fields

```
//SORT2      JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                      PRTY=15                                         00020000
//*
//*                                >>>>>  SORT MULTIPLE FIELDS <<<<
//*
//STEP1      EXEC PGM=SORT                                         00050002
//SORTIN     DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                  00060002
//SORTOUT    DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR             00070002
//SYSPRINT   DD   SYSOUT=*                                       00080002
//SYSOUT     DD   SYSOUT=*                                       00090002
//SYSIN      DD   *                                           00100002
//                                     SORT FIELDS=(89,14,CH,D,           00110002
//                                         155,4,CH,D)                   00120002
//                                         00130002
/*
                                         00140002
```

## 41. SORT multiple fields using FORMAT keyword

```
//SORT3      JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                      PRTY=15                                         00020000
//STEP1      EXEC PGM=SORT                                         00030000
//SORTIN     DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                  00040002
//SORTOUT    DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR             00050002
//SYSPRINT   DD   SYSOUT=*                                       00060002
//SYSOUT     DD   SYSOUT=*                                       00070002
//SYSIN      DD   *                                           00080002
//                                     SORT FORMAT=CH,FIELDS=(149,4,D,155,4,D) 00090002
/*
                                         00100000
```

## 42. Copy a dataset using SORT

```
//SORT4    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),      00010000
//                  PRTY=15                                         00020000
//*
//*
//>>>>>>>  COPY A DATASET <<<<<<<<<<
//*
//STEP1    EXEC PGM=SORT                                         00050003
//SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                   00060000
//SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR             00070003
//SYSPRINT DD   SYSOUT=*                                       00080003
//SYSOUT   DD   SYSOUT=*                                       00090003
//SYSIN    DD   *                                            00100003
//                                     OPTION COPY
/*
                                         00110003
                                         00120003
                                         00130000
```

## 43. SORT with INCLUDE

```
//SORT6    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),      00010000
//                  PRTY=15                                         00020000
//*
//*
//>>>>>>  SORT WITH INCLUDE <<<<<<
//*
//STEP1    EXEC PGM=SORT                                         00050004
//SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                   00060000
//SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR             00070004
//SYSPRINT DD   SYSOUT=*                                       00080004
//SYSOUT   DD   SYSOUT=*                                       00090004
//SYSIN    DD   *                                            00100004
//                                     SORT FIELDS=(149,4,CH,D)          00110004
//                                     INCLUDE COND=(89,12,CH,NE,C'Documentary') 00120004
//                                         00130004
/*
                                         00140000
```

## 44. SORT INCLUDE with multiple conditions

```
//SORT7    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),      00010000
//                  PRTY=15                                         00020000
//*
//*
//>>>>>>  SORT INCLUDE WITH MULTIPLE COND <<<<
//*
//STEP1    EXEC PGM=SORT                                         00050002
//SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                   00060002
//SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR             00070002
//SYSPRINT DD   SYSOUT=*                                       00080002
//SYSOUT   DD   SYSOUT=*                                       00090002
//SYSIN    DD   *                                            00100002
//                                     SORT FIELDS=(1,88,CH,A)          00110002
//                                     INCLUDE COND=(149,4,CH,EQ,C'2018',OR,
//                                         155,4,CH,GT,C'7.0')        00120002
//                                         00130002
//                                         00140002
/*
                                         00150002
```

## 45. SORT with OMIT condition

```
//SORT8    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                  PRTY=15                                         00020000
//*
//*      >>>>> SORT WITH OMIT CONDITION <<<<<<
//*
//STEP1    EXEC PGM=SORT                                         00030002
//SORTIN   DD  DSN=ABHI.COURSE.IMDB,DISP=SHR                      00040002
//SORTOUT  DD  DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR                 00050002
//SYSPRINT DD  SYSOUT=*                                         00060000
//SYSOUT   DD  SYSOUT=*                                         00070002
//SYSIN    DD  *                                              00080002
//          SORT FIELDS=(1,88,CH,A)                                     00090002
//          OMIT COND=(149,4,CH,LT,C'2010',AND,
//                           155,4,CH,LT,C'7.0')                                00100002
/*
/*                                             00110002
//          SORT FIELDS=(1,88,CH,A)                                     00120002
//          OMIT COND=(149,4,CH,LT,C'2010',AND,
//                           155,4,CH,LT,C'7.0')                                00130002
//                                             00140002
//                                             00150000
```

## 46. SORT with OUTREC

```
//SORT12   JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                  PRTY=15                                         00020000
//STEP1    EXEC PGM=SORT                                         00030000
//SORTIN   DD  DSN=ABHI.COURSE.IMDB,DISP=SHR                      00040001
//SORTOUT  DD  DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR                 00050001
//SYSPRINT DD  SYSOUT=*                                         00060001
//SYSOUT   DD  SYSOUT=*                                         00070001
//SYSIN    DD  *                                              00080001
//          SORT FIELDS=(149,4,BI,D)                                     00090001
//          OUTREC FIELDS=(160,8,149,4)                                00100001
/*
/*                                             00110000
```

## 47. OUTREC using FINDREP

```
//SORT22   JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                  PRTY=15                                         00020000
//*
//*      >>>>> OUTREC using FINDREP <<<<<<
//*
//STEP1    EXEC PGM=SORT                                         00030002
//SORTIN   DD  DSN=ABHI.COURSE.IMDB,DISP=SHR                      00040002
//SORTOUT  DD  DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR                 00050002
//SYSPRINT DD  SYSOUT=*                                         00060000
//SYSOUT   DD  SYSOUT=*                                         00070002
//SYSIN    DD  *                                              00080002
//          OPTION COPY                                         00090002
//          OUTREC FINDREP=(IN=C'Feature Film',OUT=C'Movie')        00100002
/*
/*                                             00110002
//          OPTION COPY                                         00120002
//          OUTREC FINDREP=(IN=C'Feature Film',OUT=C'Movie')        00130002
//                                             00140000
```

## 48. OUTREC only specific columns

```
//SORT12    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                  PRTY=15                                         00020000
//*
//*          >>>>> OUTREC ONLY SPECIFIC COLUMNS <<<<<
//*                                                 00030005
//*
//STEP1      EXEC PGM=SORT                                         00050005
//SORTIN     DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                      00060000
//SORTOUT    DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR                 00070005
//SYSPRINT   DD   SYSOUT=*                                         00080005
//SYSOUT     DD   SYSOUT=*                                         00090005
//SYSIN      DD   *                                              00100005
//                                     SORT FIELDS=(149,4,BI,D)           00110005
//                                     OUTREC BUILD=(9:149,4,30:155,4)        00120005
/*
//                                                 00130005
//                                                 00140000
```

## 49. SPLIT file based on condition

```
//SORT25    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                  PRTY=15                                         00020000
//*
//*          >>>>>> SPLIT FILE BASED ON CONDITION <<<<<<
//*                                                 00030004
//*
//STEP1      EXEC PGM=SORT                                         00050004
//SORTIN     DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                      00060000
//SORTOF01   DD   DSN=ABHI.COURSE.IMDB.Y2017,DISP=SHR                 00070004
//SORTOF02   DD   DSN=ABHI.COURSE.IMDB.Y2018,DISP=SHR                 00080004
//SORTOF03   DD   DSN=ABHI.COURSE.IMDB.Y2019,DISP=SHR                 00090004
//SYSPRINT   DD   SYSOUT=*                                         00100004
//SYSOUT     DD   SYSOUT=*                                         00110004
//SYSIN      DD   *                                              00120004
//                                     OPTION COPY                         00130004
//                                     OUTFIL FILES=01,INCLUDE=(149,4,CH,EQ,C'2017')       00140004
//                                     OUTFIL FILES=02,INCLUDE=(149,4,CH,EQ,C'2018')       00150004
//                                     OUTFIL FILES=03,INCLUDE=(149,4,CH,EQ,C'2019')       00160004
/*
//                                                 00170004
//                                                 00180000
```

## 50. Multiple copies using OUTFIL

```
//SORT26    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),          00010000
//                  PRTY=15                                         00020000
//*
//*          >>>>>> MULTIPLE COPIES USING OUTFIL <<<<<<
//*                                                 00030005
//*
//STEP1      EXEC PGM=SORT                                         00050005
//SORTIN     DD   DSN=ABHI.COURSE.IMDB,DISP=SHR                      00060000
//SORTOF01   DD   DSN=ABHI.COURSE.IMDB.Y2017,DISP=SHR                 00070005
//SORTOF02   DD   DSN=ABHI.COURSE.IMDB.Y2018,DISP=SHR                 00080005
//SORTOF03   DD   DSN=ABHI.COURSE.IMDB.Y2019,DISP=SHR                 00090005
//SYSPRINT   DD   SYSOUT=*                                         00100005
//SYSOUT     DD   SYSOUT=*                                         00110005
//SYSIN      DD   *                                              00120005
//                                     OPTION COPY                         00130005
//                                     OUTFIL FILES=(01,02,03)                   00140005
/*
//                                                 00150005
//                                                 00160000
```

## 51. SPLIT a dataset into equal parts

```
//SORT27    JOB   CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),      00010000
//                      PRTY=15                                00020000
//*
///* >>>>>>>> SPLIT A DATASET INTO EQUAL PARTS <<<<<<<<
///*
//STEP1      EXEC PGM=SORT                                00060000
//SORTIN     DD   DSN=ABHI.COURSE.IMDB,DISP=SHR          00070002
//SORTOF01   DD   DSN=ABHI.COURSE.IMDB.Y2017,DISP=SHR    00080002
//SORTOF02   DD   DSN=ABHI.COURSE.IMDB.Y2018,DISP=SHR    00090002
//SORTOF03   DD   DSN=ABHI.COURSE.IMDB.Y2019,DISP=SHR    00100002
//SYSPRINT   DD   SYSOUT=*
//SYSOUT     DD   SYSOUT=*
//SYSIN      DD   *
               OPTION COPY                                00140002
               OUTFIL FILES=(01,02),SPLIT                  00150002
/*
               00160000
```



## About Me



My name is Abhishek Rathi. I am an Electronics & Communications Engineer and a Mainframe Developer.

My Mainframe experience involves COBOL, CICS, JCL, TSO, ISPF, VSAM, DB2 SQL.

I published my first Udemy course on Jan 2017. There were no courses about Mainframes on Udemy at that time.

I have since released 5 courses on Mainframes. Over the time the content of all these 5 courses has been consolidated into 2 courses.

The first course titled TSO/ISPF is meant for those who have no knowledge about Mainframes and want to have a head start in this field. It covers TSO/ISPF and other Mainframe Technologies like JCL, VSAM, CICS, COBOL. The second course covers JCL in detail.

All my courses are hands-on practical training.

You can get in touch with me online through my website or my YouTube account:



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