

INTEREST POSTING FOR SAVINGS ACCOUNT

Mainframe Technology – COBOL, JCL & VSAM Assessment

Name : DEVESH S

VSAM DATASET CREATION:

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File Edit Edit_ Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.JCLLIB(VSAMDEF) - 01.03 Columns 00001 00072
Command ==> Top of Data Scroll ==> CSR
== MSG > - Warning - The UNDO command is not available until you change
== MSG > your edit profile using the command RECOVERY ON.
0000100 //VSAMDEF JOB 1, NOTIFY=&SYSUID
0000200 //STEP1 EXEC PGM=IDCAMS
0000300 //SYSPRINT DD SYSOUT=*
0000400 //SYSIN DD *
0000500 DELETE A014.DEVESH.KSDS CLUSTER PURGE
0000600 SET MAXCC=0
0000700 DEFINE CLUSTER (NAME(A014.DEVESH.KSDS)
INDEXED
KEYS(10,0)
RECORDSIZE(51,51)
TRACKS(5,5)
VOLUMES(USER001))
DATA(NAME(A014.DEVESH.KSDS.DATA))
INDEX(NAME(A014.DEVESH.KSDS.INDEX))
0000800 /
***** Bottom of Data *****
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File Edit Edit_ Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.JCLLIB(VSAMLOAD) - 01.05 Columns 00001 00072
Command ==> Top of Data Scroll ==> CSR
== MSG > - CAUTION - Profile changed to NUMBER OFF (from NUMBER ON STD).
== MSG > Data does not have valid standard numbers.
== MSG > - Warning - The UNDO command is not available until you change
== MSG > your edit profile using the command RECOVERY ON.
0000001 //VSAMLOAD JOB 1, NOTIFY=&SYSUID
0000002 //STEP1 EXEC PGM=IDCAMS
0000003 //SYSPRINT DD SYSOUT=*
0000004 //INFILE DD DSN=A014.DEVESH.SEQFILE,DISP=SHR
0000005 //SYSIN DD *
0000006 REPRO INFILE(INFILE)
0000007 OUTDATASET(A014.DEVESH.KSDS)
0000008 /
***** Bottom of Data *****
```

JCL PROGRAMS :

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File Edit Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.JCLLIB(COMPR) - 01.03 Columns 00001 00072
Command ==> █ Columns 00001 00072
                         Top of Data
== MSG > - Warning - The UNDO command is not available until you change
== MSG > your edit profile using the command RECOVERY ON.
000100 // A0155 JOB (ACCT),'COBOL COMPILE',
000200 // CLASS=A,MSGCLASS=X,TIME=(1,0),NOTIFY=&SYSUID
000300 // COBSTEP EXEC PGM=IGYCRCTL
000400 // SYSLIN DD DSN=&OBJ,UNIT=SYSDA,
000500 // SPACE=(TRK,(1,1)),DISP=(MOD,PASS)
000600 // SYSIN DD DSN=A014.DEVESH.SOURCE(INTPOST),DISP=SHR
000700 // SYSPRINT DD SYSOUT=*
000800 // SYSOUT DD SYSOUT=*
000900 // SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
001000 // SYSUT2 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
001100 // SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
001200 // SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
001300 // SYSUT5 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
001400 // SYSUT6 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
001500 // SYSUT7 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
001600 // LKED EXEC PGM=IEWL
001700 // SYSLIN DD DSN=&OBJ,DISP=(OLD,DELETE)
001800 // SYSLIB DD DSN=CEE.SCEELKE,DISP=SHR
001900 // SYSLMD DD DSN=A014.DEVESH.LOADLIB(INTPOST),DISP=SHR
002000 // SYSPRINT DD SYSOUT=*
002100 // RUNSTEP EXEC PGM=INTPOST
002200 // STEPLIB DD DSN=A014.DEVESH.LOADLIB,DISP=SHR
002210 // VSAMFILE DD DSN=A014.DEVESH.KSDS,DISP=SHR
002220 // INTFILE DD DSN=A014.INTEREST.FILE,DISP=SHR
002300 // SYSOUT DD SYSOUT=*
                         Bottom of Data

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COBOL IMPLEMENTATION:

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File Edit Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.SOURCE(INTPOST) - 01.06 Columns 00001 00072
Command ==> █ Columns 00001 00072
                         Top of Data
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. INTPOST.
000003 ENVIRONMENT DIVISION.
000004 INPUT-OUTPUT SECTION.
000005 FILE-CONTROL.
000006   SELECT INTEREST-FILE ASSIGNMENT TO INTFILE
000007   ORGANIZATION IS SEQUENTIAL
000008   ACCESS MODE IS SEQUENTIAL
000009   FILE STATUS IS WS-INT-STATUS.
000010   SELECT VSAM-FILE ASSIGNMENT TO VSAMFILE
000011   ORGANIZATION IS INDEXED
000012   ACCESS MODE IS RANDOM
000013   RECORD KEY IS VM-ACCOUNT-NUMBER
000014   FILE STATUS IS WS-VSAM-STATUS.
000015 DATA DIVISION.
000016 FILE SECTION.
000017 FD INTEREST-FILE
000018   RECORDING MODE IS F
000019   BLOCK CONTAINS 0 RECORDS.
000020   01 INT-RECORD.
000021     05 IR-ACCOUNT-NUMBER PIC X(10).
000022     05 FILLER PIC X(20).
000023 FD VSAM-FILE.
000024   01 VSAM-RECORD.
000025     05 VM-ACCOUNT-NUMBER PIC X(10).
000026     05 VM-CUSTOMER-NAME PIC X(30).
000027     05 VM-ACCOUNT-TYPE PIC X(1).
000028     05 VM-BALANCE PIC 9(7)V99.
000029     05 VM-STATUS PIC X(1).
000030 WORKING-STORAGE SECTION.
000031   01 WS-FLAGS.
000032     05 WS-INIT-STATUS PIC XX VALUE '00'.
000033     05 WS-VSAM-STATUS PIC XX VALUE '00'.
000034     05 WS-EOF PIC X VALUE 'N'.
000035   01 WS-COUNTERS.
000036     05 WS-PROCESSED PIC 9(4) VALUE 0.
000037     05 WS-CREDITED PIC 9(4) VALUE 0.
* DS LIST

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File Edit Settings Menu Utilities Compilers Test Help
VIEW A 014 . DEVESH. SOURCE (INTPOST) - 01.06 Columns 0 0 0 0 1 0 0 0 7 2
Command ==> █ Columns 0 0 0 0 1 0 0 0 7 2
0000038      0 5   WS - FAILED          PIC 9(4) VALUE 0.
0000039      0 5   WS - TOTAL - INTEREST  PIC 9(7)V99 VALUE 0.
0000040      0 1   WS - INTEREST - AMOUNT  PIC 9(7)V99 VALUE 0.
0000041      0 1   WS - INTEREST - RATE   PIC V99 VALUE 0.
0000042      0 1   WS - MIN - BALANCE    PIC 9(7)V99 VALUE 50000.00.
0000043      0 1   WS - DISPLAY - INTEREST  PIC ZZZ,ZZ9.99.
0000044      0 1   WS - DISPLAY - TOTAL   PIC ZZZ,ZZ9.99.
0000045      PROCEDURE DIVISION.
0000046
0000047      PERFORM H 10000 - OPEN - FILES
0000048      PERFORM H 20000 - PROCESS - RECORDS
0000049      PERFORM I 10000 - PROF - Y'
0000050      PERFORM H 30000 - PRINT - SUMMARY
0000051      PERFORM H 40000 - CLOSE - FILES
0000052      STOP RUN.
0000053      1000 - OPEN - FILES.
0000054      OPEN INPUT INTEREST - FILE
0000055      OPEN I - Q VSAM - FILE
0000056      IF WS - INIT - STATUS NOT = '00'
0000057      DISPLAY 'ERROR OPENING INTEREST FILE: '
0000058      WS - INIT - STATUS
0000059      MOVE 'Y' TO WS - EOF
0000060      END - IF
0000061      IF WS - VSAM - STATUS NOT = '00'
0000062      DISPLAY 'ERROR OPENING VSAM FILE: '
0000063      MOVE 'Y' TO WS - EOF
0000064
0000065      END - IF
0000066      PERFORM 9000 - READ - INTEREST .
0000067      2000 - PROCESS - RECORDS .
0000068      ADD E I TO WS - PROCESSED
0000069      MOVE I ACCOUNT - NUMBER TO VM - ACCOUNT - NUMBER
0000070      READ VSAMFILE
0000071      IF WS - VSAM - STATUS = '00'
0000072      PERFORM 2100 - VALIDATE - ACCOUNT
0000073      ELSE
0000074      DISPLAY 'ACCOUNT NOT FOUND: '
0000075      IR - ACCOUNT - NUMBER
* D S L I S T

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File Edit Settings Menu Utilities Compilers Test Help
VIEW A 014 . DEVESH. SOURCE (INTPOST) - 01.06 Columns 0 0 0 0 1 0 0 0 7 2
Command ==> █ Columns 0 0 0 0 1 0 0 0 7 2
000114      MOVE WS - TOTAL - INTEREST TO WS - DISPLAY - TOTAL
000115      DISPLAY '----- INTEREST POSTING SUMMARY -----'
000116      DISPLAY 'ACCOUNTS PROCESSED : ' WS - PROCESSED
000117      DISPLAY 'ACCOUNTS CREDITED : ' WS - CREDITED
000118      DISPLAY 'FAILED ACCOUNTS : ' WS - FAILED
000119      DISPLAY 'TOTAL INTEREST : ' WS - DISPLAY - TOTAL
000120      DISPLAY 'BATCH COMPLETED SUCCESSFULLY'.
000121      DISPLAY '-----'.
000122      4000 - CLOSE - FILES.
000123      CLOSE INTEREST - FILE
000124      CLOSE VSAM - FILE.
000125      9000 - READ - INTEREST .
000126      READ INTEREST - FILE
000127      IF WS - INIT - STATUS = '10'
000128      MOVE 'Y' TO WS - EOF
000129      ELSE IF WS - INIT - STATUS NOT = '00'
000130      DISPLAY 'READ ERROR INTEREST FILE: '
000131      WS - INIT - STATUS
000132      MOVE 'Y' TO WS - EOF
000133      END - IF.
***** Bottom of Data *****

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OUTPUT:

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File Edit View Tools Help
Clear Erase PA1 PA2 PA3 EraseF ⌂
Display Filter View Print Options Help
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SDSF OUTPUT DISPLAY A0155      JOB03615   DSID    104 LINE NOT PAGE MODE DATA
COMMAND INPUT ===>                      SCROLL ===> CSR
***** TOP OF DATA *****
INTEREST POSTED FOR: 4000000001 AMOUNT:      200.00
BELOW MIN BALANCE: 4000000002
NOT SAVINGS ACCOUNT: 4000000003
ACCOUNT NOT FOUND: 4000000011
----- INTEREST POSTING SUMMARY -----
ACCOUNTS PROCESSED : 0004
ACCOUNTS CREDITED : 0001
FAILED ACCOUNTS : 0003
TOTAL INTEREST : 200.00
BATCH COMPLETED SUCCESSFULLY
-----
***** BOTTOM OF DATA *****
```