

INTEREST POSTING FOR SAVINGS ACCOUNT

Mainframe Technology – COBOL, JCL & VSAM Assessment

Name : DEVESH S

VSAM DATASET CREATION:

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.JCLLIB(VSAMDEF) - 01.03 Columns 00001 00072
Command ==> Scroll ==> CSR
=====
- Warning- The UNDO command is not available until you change
your edit profile using the command RECOVERY ON.
//VSAMDEF JOB 1,NOTIFY=4SYUID
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE A014.DEVESH.KSDS CLUSTER PURGE
SET MAXCC=0
DEFINE CLUSTER(NAME(A014.DEVESH.KSDS)
INDEXED
KEYS(10,0)
RECORDSIZE(51,51)
TRACKS(5,5)
VOLUMES(USR001))
DATA(NAME(A014.DEVESH.KSDS.DATA))
INDEX(NAME(A014.DEVESH.KSDS.INDEX))
/*
===== Bottom of Data =====
```

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.JCLLIB(VSAMLOAD) - 01.05 Columns 00001 00072
Command ==> Scroll ==> CSR
=====
- CAUTION- Profile changed to NUMBER OFF (from NUMBER ON STD).
- Warning- Data does not have valid standard numbers.
- Warning- The UNDO command is not available until you change
your edit profile using the command RECOVERY ON.
//VSAMLOAD JOB 1,NOTIFY=4SYUID
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//INFILE DD DSN=A014.DEVESH.SEQFILE,DISP=SHR
//SYSIN DD *
REPRO INFILE(INFILE)
OUTDATASET(A014.DEVESH.KSDS)
/*
===== Bottom of Data =====
```

JCL PROGRAMS :

```
-- File Edit Edit Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.JCLLIB (COMP) - 01.03 Columns 00001 00072
Command ==> CSR
-MSG> -Warning- The UNDO command is not available until you change
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.SCEELKED,DISP=SHR
001900 //SYSLMOD 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
```

COBOL IMPLEMENTATION:

```
-- File Edit Edit Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.SOURCE (INTPOST) - 01.06 Columns 00001 00072
Command ==> CSR
IDENTIFICATION DIVISION.
PROGRAM-ID INTPOST.
ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT INTEREST-FILE ASSIGN TO INTFILE
ORGANIZATION IS SEQUENTIAL
ACCESS MODE IS SEQUENTIAL
FILE STATUS IS WS-INT-STATUS.
SELECT VSAM-FILE ASSIGN TO VSAMFILE
ORGANIZATION IS INDEXED
ACCESS MODE IS RANDOM
RECORD KEY IS VM-ACCOUNT-NUMBER
FILE STATUS IS WS-VSAM-STATUS.
DATA DIVISION.
FILE SECTION.
FD INTEREST-FILE
RECORDING MODE IS F
BLOCK CONTAINS 0 RECORDS.
01 INT-RECORD.
05 IR-ACCOUNT-NUMBER PIC X(10).
05 FILLER PIC X(20).
FD VSAM-FILE.
01 VSAM-RECORD.
05 VM-ACCOUNT-NUMBER PIC X(10).
05 VM-CUSTOMER-NAME PIC X(30).
05 VM-ACCOUNT-TYPE PIC X(1).
05 VM-BALANCE PIC 9(7)V99.
05 VM-STATUS PIC X(1).
WORKING-STORAGE SECTION.
01 WS-FLAGS.
05 WS-INT-STATUS PIC XX VALUE '00'.
05 WS-VSAM-STATUS PIC XX VALUE '00'.
05 WS-EOF PIC X VALUE 'N'.
01 WS-COUNTERS.
05 WS-PROCESSED PIC 9(4) VALUE 0.
05 WS-CREDITED PIC 9(4) VALUE 0.
* D S L I S T
```

```

File Edit Edit Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.SOURCE (INTPOST) - 01.06 Columns 00001 00072
Command ==> CSR
0000035 05 WS-FAILED
0000036 05 WS-TOTAL-INTEREST
0000037 01 WS-INTEREST-AMOUNT
0000038 01 WS-INTEREST-RATE
0000039 01 WS-MIN-BALANCE
0000040 01 WS-DISPLAY-INTEREST
0000041 01 WS-DISPLAY-TOTAL
0000042 PROCEDURE DIVISION.
0000043 0000 -MAIN.
0000044 PERFORM 1000-OPEN-FILES
0000045 PERFORM 2000-PROCESS-RECORDS
0000046 UNTIL WS-EOF = 'Y'
0000047 PERFORM 3000-PRINT-SUMMARY
0000048 PERFORM 4000-CLOSE-FILES
0000049 STOP RUN.
0000050 1000 -OPEN-FILES.
0000051 OPEN INPUT INTEREST-FILE
0000052 OPEN I-O VSAM-FILE
0000053 IF WS-INT-STATUS NOT = '00'
0000054 DISPLAY 'ERROR OPENING INTEREST FILE: '
0000055 MOVE 'Y' TO WS-EOF
0000056 END-IF
0000057 IF WS-VSAM-STATUS NOT = '00'
0000058 DISPLAY 'ERROR OPENING VSAM FILE: '
0000059 MOVE 'Y' TO WS-EOF
0000060 END-IF
0000061 PERFORM 9000-READ-INTEREST.
0000062 2000 -PROCESS-RECORDS.
0000063 ADD 1 TO WS-PROCESSED
0000064 MOVE IR-ACCOUNT-NUMBER TO VM-ACCOUNT-NUMBER
0000065 READ VSAM-FILE
0000066 IF WS-VSAM-STATUS = '00'
0000067 PERFORM 2100-VALIDATE-ACCOUNT
0000068 ELSE
0000069 DISPLAY 'ACCOUNT NOT FOUND: '
0000070 IR-ACCOUNT-NUMBER
0000071 *DSLIST

```

```

File Edit Edit Settings Menu Utilities Compilers Test Help
VIEW A014.DEVESH.SOURCE (INTPOST) - 01.06 Columns 00001 00072
Command ==> CSR
0000114 MOVE WS-TOTAL-INTEREST TO WS-DISPLAY-TOTAL
0000115 DISPLAY '----- INTEREST POSTING SUMMARY -----'
0000116 DISPLAY 'ACCOUNTS PROCESSED : ' WS-PROCESSED
0000117 DISPLAY 'ACCOUNTS CREDITED : ' WS-CREDITED
0000118 DISPLAY 'FAILED ACCOUNTS : ' WS-FAILED
0000119 DISPLAY 'TOTAL INTEREST : ' WS-DISPLAY-TOTAL
0000120 DISPLAY 'BATCH COMPLETED SUCCESSFULLY'
0000121 DISPLAY '-----'
0000122 4000 -CLOSE-FILES.
0000123 CLOSE INTEREST-FILE
0000124 CLOSE VSAM-FILE.
0000125 9000 -READ-INTEREST.
0000126 READ INTEREST-FILE
0000127 IF WS-INT-STATUS = '10'
0000128 MOVE 'Y' TO WS-EOF
0000129 ELSE IF WS-INT-STATUS NOT = '00'
0000130 DISPLAY 'READ ERROR INTEREST FILE: '
0000131 MOVE 'Y' TO WS-EOF
0000132 END-IF.
0000133 ***** Bottom of Data *****

```

OUTPUT:

```
File Edit View Tools Help
[Icons] Clear Erase PA1 PA2 PA3 EraseF [Play]

Display Filter View Print Options Help
-----
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 *****
```