**ICT02 - STUDENT MARK MANAGEMENT**

**Description**

**Instruction:**

1.if you are using TLAB\*\*, Sample compile and run JCL is available in "TLABADM.LAB.SYS.COMPRUN". Please go in view mode and copy the members to your deliverable dataset.

2. if you are using TLAB\*\*,the IP address  is 10.142.149.210 and the Port is 623 to connect to Mainframe Terminal

**Please do not EVALUATE and just SUBMIT the code for Evaluation  - CC/MOCK/ICT assessments.**

**Objective:**

To create a COBOL-VSAM application to STUDENT MARK MANAGEMENT.

**STEP1:** **ISPF**

1)       Allocate the below PDS with the following parameters given below.

-                     **USERID.MYLIB.COBOL.ICT02**- COBOL and JCL Source Program

-                     **USERID.MYLIB.LOADLIB** - COBOL Load Module

2)       Allocate a PS dataset with a record length of 80 as per the naming conventions given below.

-                     INPUT  PS1- **USERID.MYDATA.ICT02.PS1**

-                     RECORD LENGTH (80,80)

-                     **Enter 1strow in PS file. 1st row contains header details for reference.**

-                     **Enter 2nd row** in PS file. 2nd row contains layout details for reference

-                     All alphanumeric data to be entered in **CAPITAL** letters.

A table with numbers and letters

AI-generated content may be incorrect.

**STEP2:** **JCL**

1)       Create a member **ICT02J01** in USERID.MYLIB.COBOL.ICT02 and write a JCL to perform the below task.

* **STEP01 :** Pre delete dataset **USERID.MYDATA.ICT02.PS2**
* **STEP02:**Allocate a PS dataset with a record length of 80 as per the naming conventions given below.

  OUTPUT PS2- **USERID.MYDATA.ICT02.PS2**

  RECORD LENGTH (80,80)

* **STEP03 :** Use SORT utility to perform the below operation on PS1 dataset and store the output in PS2 dataset

  Remove the header record

  Remove the layout details

  Sort records in ascending order based on STUD\_NO

  Eliminate the duplicates

  Replace the '@' with S

2)       Create a member **ICT02J02** in USERID.MYLIB.COBOL.ICT02 and write a JCL to perform the below task.

* **STEP01 :**Pre delete dataset**USERID.MYDATA.ICT02.KSDS**
* **STEP02:**Allocate a KSDS dataset with the following naming conventions.
  + - **INPUT KSDS - USERID.MYDATA.ICT02.KSDS**
    - RECORD LENGTH (80,80)
    - KEY IS **STUD\_ID**
* **STEP03:** Load the PS2 dataset into the KSDS.

**STEP 3: COBOL .**

3)       Create a Member name **ICT02CBM** inside the PDS (USERID.USERID.MYLIB.COBOL.ICT02) for the **Main Program**.

**4)**Create a Member name **ICT02CBS** inside the PDS (USERID.USERID.MYLIB.COBOL.ICT02) for the **Sub Program.**

i.                    In the Main Program, Write a COBOL program to perform the following,

Input file 02 to be used in the program             : USERID.MYDATA.ICT02.KSDS

DD name to be used                                             : **INPKS**

Output file to be used in the program                : USERID.MYDATA.ICT02.PS3

DD name to be used                                             : **OUTPS**

**Note**: Please use only the above mentioned DD names. Do not use COPYBOOKs for declaring input or output file layout in COBOL program.

ii.                  Read all the records from INPUT KSDS file

IF the NO\_ATTEMPT =1 then

**ADD 15 TO CC & ICT SCORE**

(CC\_SCORE = 15 + CC\_SCORE

ICT\_SCORE = 15 + I CT\_SCORE)

iii.                Update the new CC\_SCORE and ICT\_SCORE in the KSDS dataset.

iv.                After updating the CC and ICT SCORE ,Call the subprogram the calculate the percentage

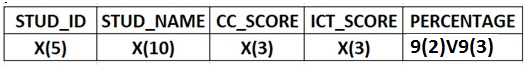
v.                  In the SUB PROGRAM (COBICT2S) , Perform the below task

  Calculate **TOTAL  =  CC\_SCORE + ICT\_SCORE**

  Calculate **PERCENTAGE = ( TOTAL / 200) \*  100**

vi.                Write the records in the output  file USERID.MYDATA.ICT02.PS3 based on the below layout

**OUTPUT LAYOUT :**



*NOTE:*One space filler is to be inserted between each field.

**INSTRUCTIONS:**

* Follow  the proper coding standards
* Provide proper error handling routines.
* Note: Sample compile and run JCL is available in "TLABADM.LAB.SYS.COMPRUN". Open the PDS in view mode and copy the members to your deliverable dataset.

**EXPECTED DELIVERABLES**

* PS1 - INPUT DATASET
* PS2 & PS3 - OUTPUT DATASET
* JCL PROGRAMS
* COBOL PROGRAMS
* RUN JCL

**Evaluation Procedure:**

1) Use your run JCL to compile the Program and test your program with the necessary inputs and make sure you get the return code MAXCC 00 before submitting it for Evaluation.

2) Download your dataset (USERID.MYLIB.ICT02 (ICT02J01), (ICT02J02)( ICT02CBM), (ICT02CBS) and USERID.MYDATA.ICT02.PS1 to your system and name the file ICT02J01.txt , ICT02J02.txt , ICT02CBM.txt , ICT02CBS.txt,ICT02INP.txt

1)       Download your output dataset USERID.MYDATA.ICT02.PS2 and  USERID.MYDATA.ICT02.PS2 and name it as ICT02OUT1.txt and ICT02OUT2.txt

3) Download your run JCL with the necessary inputs as per the QB Requirement and name it RUNJCL.txt

4) Drag the file into the code Editor.

5) Then Press the Evaluate button for Evaluation.