CASE STUDY ON ONLINE MOBILE RECHARGE PORTAL

BATCH PROCESSING

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Batch – Mainframe (22nd March 2022)

Project Code - OMRP-01

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CONTEXT

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Introduction

1.1. Background

Mobile phones have become an essential part of our lives, and to keep the calling, internet and other

processes going, we need to make our mobile recharge on time. ABC Recharge Portal provides the

customer with a wonderful experience of making online mobile recharge.

1.2. Purpose

It is proposed to develop a Portal for OMRP that will allow the customer to select the network, plan

and recharge for mobile. The OMRP process will have both on-line and batch process to cater to the

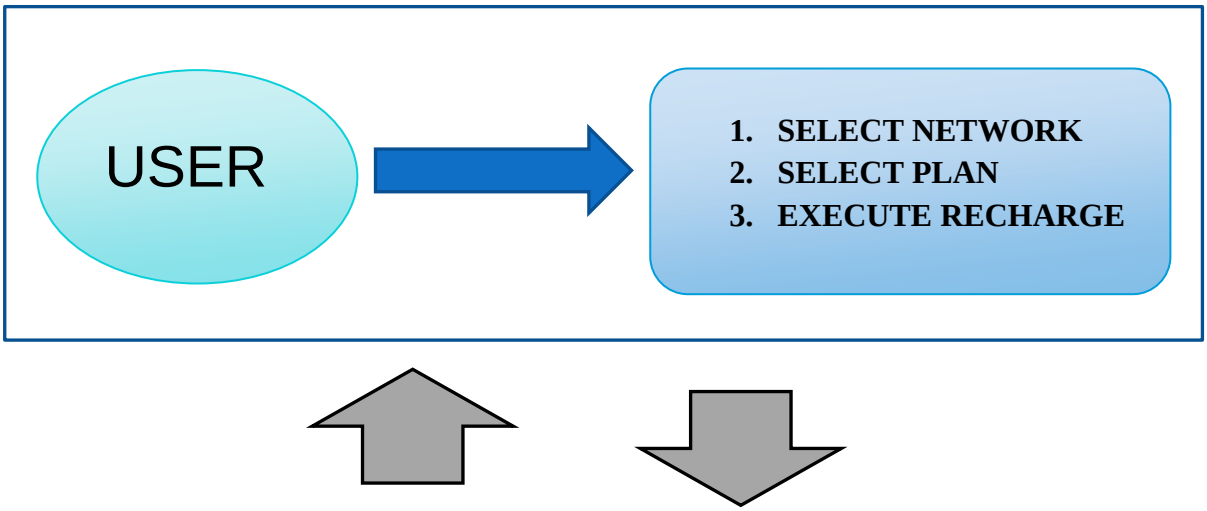
following functionality.

1.3. Scope

The scope of the OMRP will be to provide the functionality as described in Functional Requirements.

High Level Documentation (HLD)

Aim: - To generate a Transaction Summary Report from Transaction Table by using batch processing.



FOREGROUND
(ONLINE PROCESS)

- Customer care detail screen.
- Display network details.
- Payment page.
- Purchase summary

BACKGROUND
(BATCH PROCESS)

Table or dataset from Network_Plan_Table.

Transaction_Detail like Customer name, Transaction ID, Mobile no., Plan details, Mail id etc.

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Low Level Documentation (LLD)

Step-1 - By using JCL, we would create a KSDS (vsam file) by defining a cluster with suitable values for record size and key position needed.

```
  File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       CAPGB28.ABHI.DMS(CRTKSDS) - 01.05            Columns 00001 00072
Command ===>                                             Scroll ===> HALF
****** ***************************** Top of Data ******************************
000100 //CAPGB28M JOB MSGLEVEL=(1,1),NOTIFY=&SYSUID
000200 //S1       EXEC PGM=IDCAMS
000300 //SYSPRINT DD SYSOUT=*
000310 //SYSIN DD *
000320           DEFINE CLUSTER(NAME(CAPGB28.ABHI.REPOKSDS)-
000330                          VOLUME(DEVHD3)-
000340                          INDEXED-
000350                          TRACK(15 10)-
000361                          KEYS(15 30)-
000362                          RECORDSIZE(120 120))
000370 /*
000371 //*CREATING KSDS FILE FOR COLLECTING ENTRIES FOR SUMMARY REPORT
000380 //
****** **************************** Bottom of Data ****************************


 F1=Help      F2=Split     F3=Exit      F5=Rfind     F6=Rchange   F7=Up
 F8=Down      F9=Swap     F10=Left     F11=Right    F12=Cancel
B   A                                                          04/15
```

Step-2 – On the other side with the help of COBOL programming we select the temporary/workfile and assign it to a physical file (KSDS) which we have created on step-1.

```
000007 000700 FILE-CONTROL.
000008 000800     SELECT TSCR-FILE ASSIGN TO TSCRDD
000009 000900     ORGANIZATION IS INDEXED
000010            ACCESS IS SEQUENTIAL
000011            RECORD KEY IS TRANSACTION-ID OF TSCDT
000012 001000     FILE STATUS IS TSC-STAT.
000013 000800     SELECT REP1-TSC-FILE ASSIGN TO REPTSCDD
000014 000900     ORGANIZATION IS SEQUENTIAL
000015            ACCESS IS SEQUENTIAL
000016 001000     FILE STATUS IS REP-TSC-STAT.
```

Step-3 – We will also repeat the similar procedure for assigning a PS file, which we will use to generate the summary report on.

Step-4 – Now after assigning the workfiles in File-control section, we would not provide the File-description needed for that

Step-5 – In work-storage section we would define the structure of the report through different group variables and elementary items.

Step-6 – In procedure division we have various paragraphs like main-para, open-para, read-para, close-para etc. through which we would perform various operations.

Let us have a brief view of application of each para used in the program…

A. **MAIN-PARA**- In this para the sequence or order of execution of all para are determined, the flow of the entire program is decided through this para, even though the order of para written may differ but the execution part is done based on sequence mentioned in main-para.

```
000100 S03300 MAIN-PARA.
000101 003400     PERFORM OPEN-FILE-PARA.
000102       *    PERFORM READ-FILE-PARA.
000103       *    PERFORM WRITE-FILE-PARA 3 TIMES.
000104 003400     PERFORM REP-HEAD-PARA.
000105            PERFORM REP-COL-PARA.
000106            PERFORM REP-ENTRY-PARA.
000107            PERFORM READ-FILE-PARA UNTIL TSC-STAT = '10'
000108       *    PERFORM WRITE-FILE-PARA UNTIL TSC-STAT = '10'
000109       *    PERFORM REP-FOOTER-PARA.
000110 003600*    PERFORM CLOSE-FILE-PARA.
000111 003700     STOP RUN.
```

B. **OPEN-FILE-PARA**-This para is used to open the both TSCR-FILE & REP1-TSC-FILE which are the temporary files assigned to the KSDS (input) and PS (output) file.

```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPBT1) - 01.21            Columns 0000
Command ===>                                                 Scroll ==
000138 003800 OPEN-FILE-PARA.
000139 003900*     OPEN INPUT CUSTIN.
000140 003900      OPEN INPUT TSCR-FILE.
000141 003900      OPEN OUTPUT REP1-TSC-FILE.
000142 004000             EVALUATE TSC-STAT ALSO REP-TSC-STAT
000143 004100                   WHEN '00' ALSO '00'
000144 004200                        DISPLAY 'FILES OPEN DONE'
000145                               CONTINUE
000146 004300                    WHEN OTHER
000147 004400                        DISPLAY 'ERROR OPENING FILE :'
000148                                TSC-STAT '  ' REP-TSC-STAT
000149                                STOP RUN
000150                   END-EVALUATE.
```

C. **REP-HEAD-PARA** - Used to decorate the header of our report.

D. **REP-COL-PARA**- Used to decorate the column of our report.

E. **REP-ENTRY-PARA** - Used to add the entries to our report.

F. **READ-FILE-PARA** – Read para is used to read into file buffer from physical file, in our case we would read TSCR-FILE and also evaluate it with condition whether it is successful or giving an error Code.

```
000151 003800 READ-FILE-PARA.
000152 003900*     READ INTO FILE BUFFER FROM PHYSICAL FILE
000153 003900      READ TSCR-FILE.
000154 004000             EVALUATE TSC-STAT
000155 004100                   WHEN '00'
000156 004200                        DISPLAY 'TSCR-FILE READ DONE'
000157                               PERFORM PRINT-REP-PARA
000158 004300                    WHEN '10'
000159                               PERFORM REP-FOOTER-PARA
000160 003600                        PERFORM CLOSE-FILE-PARA
000161                               STOP RUN
000162                           WHEN OTHER
000163 004400                        DISPLAY 'ERROR READING TSCR-FILE :'
000164                                 TSC-STAT
000165                   END-EVALUATE.
```

G. **WRITE-FILE-PARA**- Write para in our program is an optional para as we only use the para when we want to add the entry from through in-stream using COBOL but we are collecting it through KSDS file.

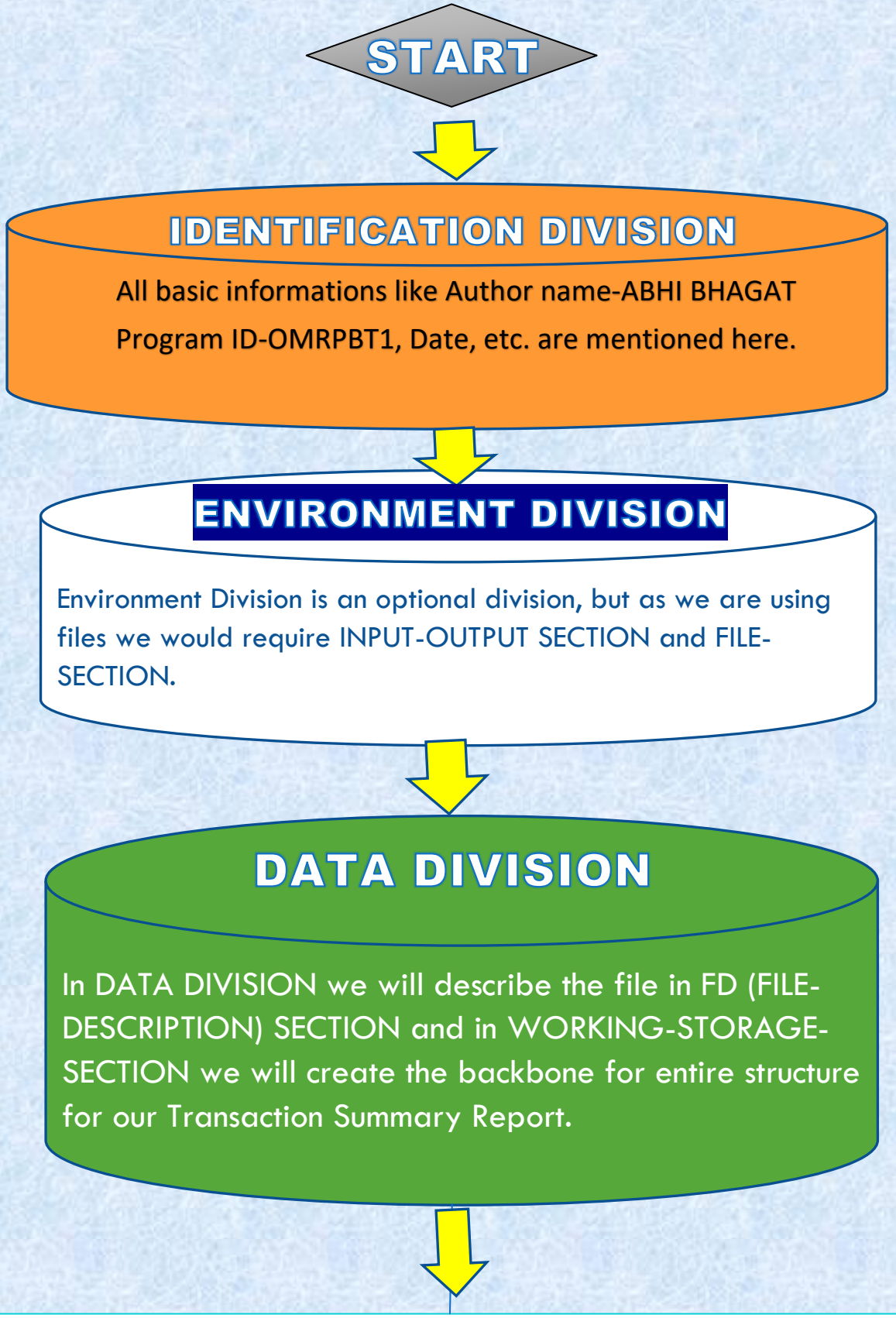
```
000166 004700 WRITE-FILE-PARA.
000167 001800       ACCEPT CUST-NAME OF TSCDT.
000168 001720       ACCEPT TRANSACTION-ID OF TSCDT.
000169 001900       ACCEPT MOBILE-NUMBER OF TSCDT.
000170 002000       ACCEPT PLAN-DETAIL OF TSCDT.
000171 001910       ACCEPT MAIL-ID OF TSCDT.
000172       *      WRITE TSCDT FROM TSCDT-ED.
000173              WRITE TSCDT.
000174 004900        EVALUATE TSC-STAT
000175 005000              WHEN '00'
000176 005100                   DISPLAY 'OP FILE WRITTEN SUCCESFULLY'
000177 005000              WHEN '22'
000178 005100                   DISPLAY 'INVALID KEY'
000179 001720*                  DISPLAY TRANSACTION-ID OF TSCDT
000180 005200              WHEN OTHER
000181 005300                   DISPLAY 'ERROR WRITING OP FILE' TSC-STAT
000182               END-EVALUATE.
```

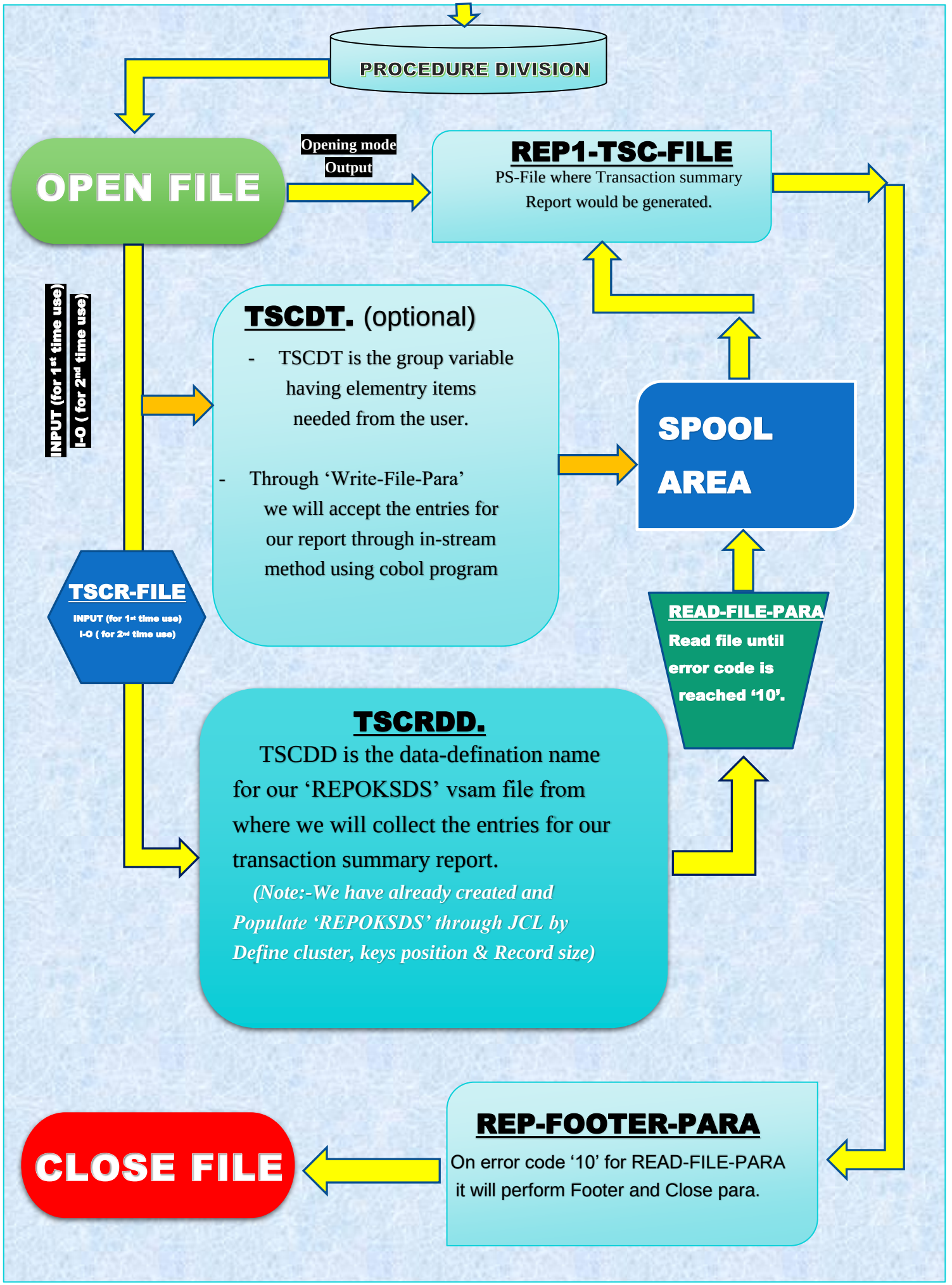
H. **REP-FOOTER-PARA-** Used to decorate the footer of our report.

I. **CLOSE-FILE-PARA**- Close para is used to close TSCR-FILE and also evaluate it with condition whether it is successful or giving an error code.

```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPBT1) - 01.21            Columns 000
Command ===>                                                 Scroll =
000183 005500 CLOSE-FILE-PARA.
000184 005600     CLOSE TSCR-FILE.
000185 006000     EVALUATE TSC-STAT
000186 006100           WHEN '00'
000187 006200                DISPLAY 'FILES CLOSE DONE'
000188                     WHEN OTHER
000189                       DISPLAY 'ERROR CLOSE  FILE :' TSC-STAT
000190                       STOP RUN
000191           END-EVALUATE.
```

Algorithm through Flow-chart




PROCEDURE DIVISION
OPEN FILE
Opening mode
Output
REP1-TSC-FILE
PS-File where Transaction summary Report would be generated.
INPUT (for 1st time use)
I-O (for 2nd time use)
TSCDT. (optional)
- TSCDT is the group variable having elementry items needed from the user.
- Through 'Write-File-Para' we will accept the entries for our report through in-stream method using cobol program
SPOOL AREA
TSCR-FILE
INPUT (for 1st time use)
I-O (for 2nd time use)
READ-FILE-PARA
Read file until error code is reached '10'.
TSCRDD.
TSCDD is the data-defination name for our 'REPOKSDS' vsam file from where we will collect the entries for our transaction summary report.
(Note:-We have already created and Populate 'REPOKSDS' through JCL by Define cluster, keys position & Record size)
REP-FOOTER-PARA
On error code '10' for READ-FILE-PARA it will perform Footer and Close para.
CLOSE FILE

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Control Break or Page Break Logic

- For Page Break Logic we will use the concept of ‘DIVIDE’ and ‘REMAINDER’ to our variable SR-NO as here you can see the DIVIDE 3 INTO SR-NO denotes when the third entry of our report arrives it will break the page to next by control break way of application.

```
READ TSCR-FILE.
       EVALUATE TSC-STAT
              WHEN '00'
                   DISPLAY 'TSCR-FILE READ DONE'
                   PERFORM PRINT-REP-PARA
                   DIVIDE 3 INTO SR-NO GIVING C REMAINDER B
                    MOVE 0 TO SR-NO
                   IF B = 00
                       PERFORM REP-FOOTER-PARA
                       DISPLAY 'PAGE BREAK DONE'
                       PERFORM REP-HEAD-PARA
                       PERFORM REP-COL-PARA
                       MOVE 0 TO SR-NO
                       CONTINUE
                   END-IF
```

- As in SR-NO 3 it will give remainder of 0 through which we would execute REP-FOOTER-PARA, REP-COL-PARA and REP-HEAD-PARA.

```
 COMMAND INPUT ===>                                              SCROLL ===> CSR
02   JIGNESH   RAMESHBHAI VAKIL    1420220424     9982649734 3.0 GB/DAY COMBO
.
JIGNESH   RAMESHBHAI VAKIL    YOUR PLAN DETAIL IS INVALID
TSCR-FILE READ DONE
03   PANKAJ    RAMANBHAI  PATEL    1420220425     9812657626 1.5 GB/DAY COMBO
.
================================================================================
PAGE BREAK DONE
================================================================================
          ABC Recharge Portal                DATE: 04/25/2022
                    Transaction Summary Report
--------------------------------------------------------------------------------
NO.  Customer-Name                 Transaction-ID Mo-Number  Plan-Det

TSCR-FILE READ DONE
01   RAJIV     INDRASHIL  MODI     1420220426     9824391650 1.5 GB/DAY COMBO
```

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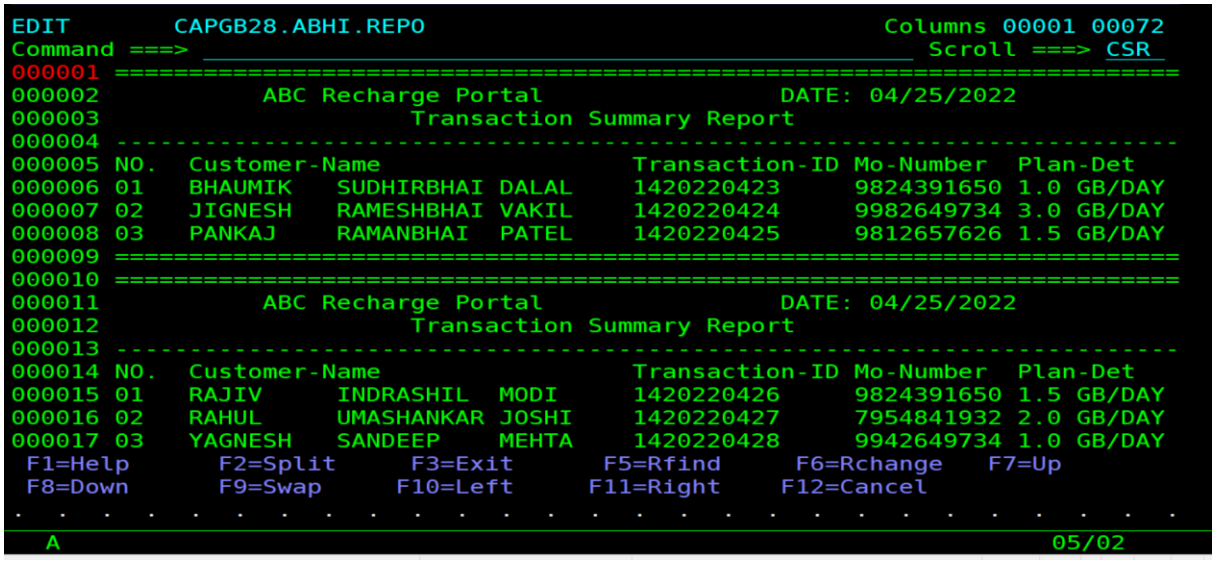
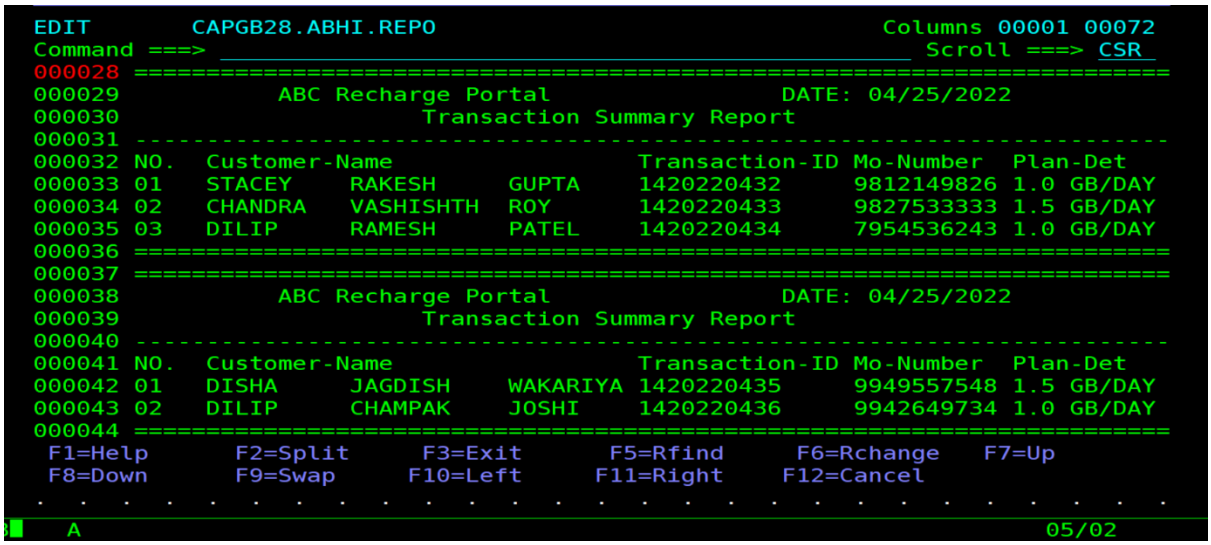
- Now as in our Transaction Summary Report we could find our entries with separate pages of 3 lines along with control break logic applied.
- Note:- we have also make the SR-NO to 0 for each page break to start the serial number from 01 as you can see in picture attached below:-





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Validation and Invalid Entry counts.

- In our Validation part, we have taken the PLAN-DETAIL parameter as our validation criteria and as assuming that we have three possibilities for our PLAN-DETAIL and rest from this plans will give us invalid plan message.

```
000172                          IF PLAN-DETAIL OF TSCDT =
000173                                  '1.0 GB/DAY COMBO 4G DATA PACK'
000174                                  OR '1.5 GB/DAY COMBO 4G DATA PACK'
000175                                  OR '2.0 GB/DAY COMBO 4G DATA PACK'
000176                                  CONTINUE
000177                          ELSE
000178                          DISPLAY CUST-NAME OF TSCDT
000179                          'YOUR PLAN DETAIL IS INVALID'
000180                          END-IF
000181 004300                    WHEN '10'
000182                                PERFORM REP-FOOTER-PARA
000183 003600                    PERFORM CLOSE-FILE-PARA
000184                          STOP RUN
000185                           WHEN OTHER
000186 004400                    DISPLAY 'ERROR READING TSCR-FILE :'
000187                            TSC-STAT
000188                  END-EVALUATE.
```

- As you can see that in will indicate invalid message in case of false entry of PLAN-DETAIL along with the name of customer.

```
================================================================================
          ABC Recharge Portal                DATE: 04/25/2022
                  Transaction Summary Report
--------------------------------------------------------------------------------
NO.  Customer-Name                 Transaction-ID Mo-Number  Plan-Det


TSCR-FILE READ DONE
01   BHAUMIK   SUDHIRBHAI DALAL    1420220423     9824391650 1.0 GB/DAY COMBO 4G
.
TSCR-FILE READ DONE
02   JIGNESH   RAMESHBHAI VAKIL    1420220424     9982649734 3.0 GB/DAY COMBO 4G

JIGNESH   RAMESHBHAI VAKIL    YOUR PLAN DETAIL IS INVALID
TSCR-FILE READ DONE
03   PANKAJ    RAMANBHAI  PATEL    1420220425     9812657626 1.5 GB/DAY COMBO 4G
  F1=HELP      F2=SPLIT     F3=END       F4=RETURN    F5=IFIND     F6=BOOK
  F7=UP        F8=DOWN      F9=SWAP     F10=LEFT     F11=RIGHT    F12=RETRIEVE
```

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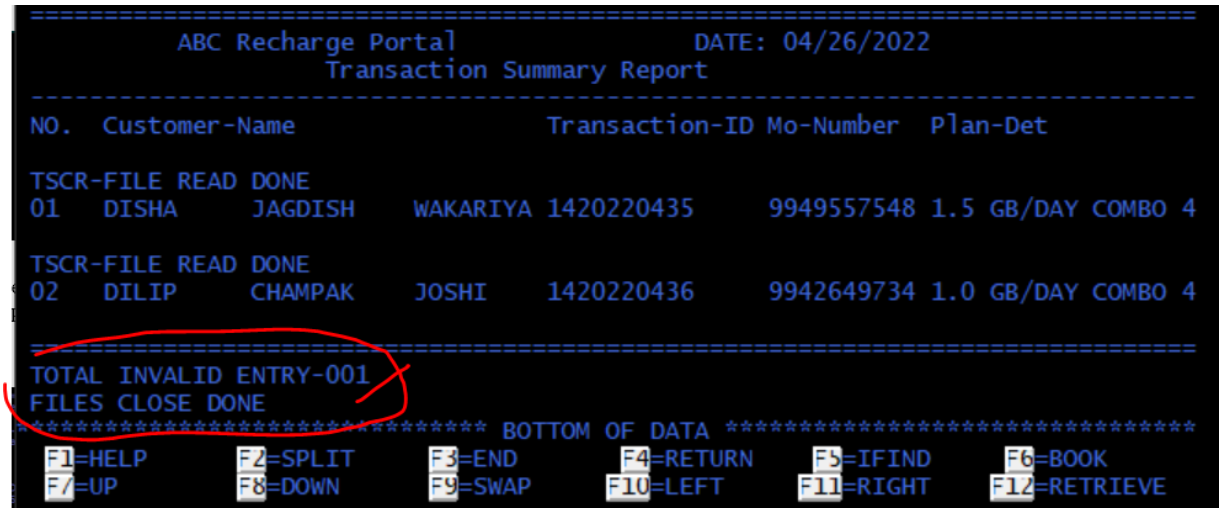
- Our Program is not only validating but also giving a count to at the page end about the total numbers of invalid entries done.

- As in the below image you could found the invalid entry as 001 as we have entered one invalid entry, it will appeared along with the name of the customer .



So in our Final Report we summarized that we have used batch-processing for our OMRP-01 Case Study to generate Transaction Summary Report with Page Break & Validation approach.

(NOTE:- THE IMAGES ATTACHED ABOVE ARE AS FOR DEMONSTRATION PURPOSE ONLY, THE CODE OF OUR PROGRAM AS PER COBOL STANDARDS IS IN THE NEXT PAGE ONWARDS.)

Program code as per COBOL Standards.

PAGE-1

```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.33            Columns 00001
Command ===> ____________________________________________ Scroll ===>
000001       ***********************************************************
000002       ***********************************************************
000003       *  System name : * *                                      *
000004       ***********************************************************
000005       *  Author name : ABHI.M.BHAGAT* * *                       *
000006       ***********************************************************
000007       *  Program Title:Mainframe_Online_Mobile_Recharge_Portal  *
000008       ***********************************************************
000009       *  Purpose :To GenerateTransaction Summary Report from    *
000010       *           transaction Table.                            *
000011       ***********************************************************
000012       *  Program - CAPGB28.ABHI.NEWPDS(OMRPSTD)                 *
000013       ***********************************************************
000014       *  Input : CAPGB28.ABHI.REPOKSDS (A Vsam File)            *
000015       ***********************************************************
000016       *  Process : Collect data from KSDS and print a report    *
000017       *            to PS file using Page-Break & Validation.    *
000018       ***********************************************************
000019       *  Output : CAPGB28.ABHI.REPO (A PS File)                 *
000020       *  Subroutines not called and parameters not passed : * * *
000021       *  Screens used : No screen used as only batch-processed  *
000022       ***********************************************************
000023       *  JCL to be used:CAPGB28.ABHI.NEWPDS(COBEXER)            *
000024       ***********************************************************
000025       *  Work Request Log                                       *
000026       ***********************************************************
```

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PAGE-2

```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34          Columns 00001 00072
Command ===>                                              Scroll ===> CSR
000026       *************************************************************
000027       *  Date Programmer WRI Description                          *
000028       *  26/04/22 x.xxxxxxx xx999 xxxxxxxxxxxxxxx                 *
000029       *  xxxxxxxxxxxxxxxxxx* *                                    *
000030       *************************************************************
000031 000100 IDENTIFICATION DIVISION.
000032 000200 PROGRAM-ID. OMRPSTD.
000033 000300 AUTHOR. ABHI BHAGAT.
000034 000400 DATE-WRITTEN. 22-04-2022
000035       ** PART-1 Identification Division (For providing basic info)**
000036       *************************************************************
000037 000500 ENVIRONMENT DIVISION.
000038 000600 INPUT-OUTPUT SECTION.
000039 000700 FILE-CONTROL.
000040 000800     SELECT TSCR-FILE ASSIGN TO TSCRDD
000041 000900     ORGANIZATION IS INDEXED
000042           ACCESS IS SEQUENTIAL
000043           RECORD KEY IS TRANSACTION-ID OF TSCDT
000044 001000     FILE STATUS IS TSC-STAT.
000045 000800     SELECT REP1-TSC-FILE ASSIGN TO REPTSCDD
000046 000900     ORGANIZATION IS SEQUENTIAL
000047           ACCESS IS SEQUENTIAL
000048 001000     FILE STATUS IS REP-TSC-STAT.
000049       ** PART-2 Environment Division (For assign IP OP Files)**
000050       *************************************************************
```

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PAGE-3

```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 00072
Command ===>                                                 Scroll ===> CSR
000051 001100 DATA DIVISION.
000052 001200 FILE SECTION.
000053 001300 FD TSCR-FILE.
000054        *    LABEL RECORDS STANDARD
000055        *    RECORD CONTAINS 120 CHARACTERS
000056        *    BLOCK CONTAINS 1200 CHARACTERS
000057        *    RECORD MODE IS F.
000058        *---(ABOVE DETAILS, WHEN INPUT IS NON-VSAM FILE)---
000059         COPY TSCDT.
000060 001710*01 TSCDT.
000061 0018  *   05 CUST-NAME PIC A(30).
000062     17*       10 FIRST-NAME PIC A(15) VALUE 'firstName'.
000063     18*       10 LAST-NAME PIC A(15) VALUE 'lastName'.
000064 001720*   05 TRANSACTION-ID PIC X(15).
000065 001900*   05 MOBILE-NUMBER PIC 9(10).
000066 002000*   05 PLAN-DETAIL PIC X(30).
000067 001910*   05 MAIL-ID PIC X(30).
000068        *   05 FILLER PIC X(5).
000069 001300 FD REP1-TSC-FILE
000070            LABEL RECORDS STANDARD
000071            RECORD CONTAINS 120 CHARACTERS
000072            BLOCK CONTAINS 1200 CHARACTERS
000073            RECORDING MODE IS F.
000074         01 REP-TSCDT PIC X(120).
000075 003000 WORKING-STORAGE SECTION.
000076       ////Note:-TSCDT-ED is commented out as the part of instream
```

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```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
000076       ////Note:-TSCDT-ED is commented out as the part of instream
000077       ***      procedure to collect entries through cobol
000078 001710*01 TSCDT-ED.
000079 001720*   05 TRANSACTION-ID PIC X(15) VALUE '111112'.
000080 001800*   05 CUST-NAME PIC A(30) VALUE 'customerName'.
000081       *       10 FIRST-NAME PIC A(15) VALUE 'firstName'.
000082       *       10 LAST-NAME PIC A(15) VALUE 'lastName'.
000083 001900*   05 MOBILE-NUMBER PIC 9(10) VALUE 9999999999.
000084 001910*   05 MAIL-ID PIC X(30) VALUE 'XXXXXX@XXX.COM'.
000085 002000*   05 PLAN-DETAIL PIC X(30) VALUE 'XXXXXXX'.
000086       *---(ABOVE GROUP VARIABLE USED WHEN WE DO INSTREAM METHOD)---/////
000087        01 C PIC 9(02).
000088       * C is a variable used for page break logic purpose
000089        01 B PIC 9(02).
000090       * B is a variable(REMAINDER) used for page break logic purpose
000091        01 TOT-INVALID-ENTRY.
000092           05 FILLER PIC X(20) VALUE 'TOTAL INVALID ENTRY-'.
000093           05 WS-TOT-INVALID-ENTRY PIC 9(03) VALUE 0.
000094 003100 01 TSC-STAT PIC X(02).
000095 003100 01 REP-TSC-STAT PIC X(02).
000096        01 SYS-DATE.
000097           05 Y PIC 9999.
000098           05 M PIC 99.
000099           05 D PIC 99.
000100        01 WS-EOF PIC A VALUE 'N'.
000101           88 88-EOF VALUE 'Y'.
```

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```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
000101           88 88-EOF VALUE 'Y'.
000102           88 88-FIRST-READ VALUE 'Y'.
000103        01 WS-REP-HEAD1.
000104           05 FILLER PIC X(10) VALUE SPACES.
000105           05 FILLER PIC X(35) VALUE 'ABC Recharge Portal'.
000106           05 FILLER PIC X(06) VALUE 'DATE:'.
000107           05 ACT-DATE.
000108               10 M PIC 99.
000109               10 FILLER PIC X(01) VALUE '/'.
000110               10 D PIC 99.
000111               10 FILLER PIC X VALUE '/'.
000112               10 Y PIC 9999.
000113        01 WS-REP-HEAD2.
000114           05 FILLER PIC X(20) VALUE SPACES.
000115           05 FILLER PIC X(35) VALUE 'Transaction Summary Report'.
000116        01 WS-COL-HEAD.
000117           05 FILLER PIC X(03)  VALUE 'NO.'.
000118           05 FILLER PIC X(02)  VALUE SPACES.
000119           05 FILLER PIC X(13) VALUE 'Customer-Name'.
000120           05 FILLER PIC X(17)  VALUE SPACES.
000121           05 FILLER PIC X(14) VALUE 'Transaction-ID'.
000122           05 FILLER PIC X(01)  VALUE SPACES.
000123           05 FILLER PIC X(09) VALUE 'Mo-Number'.
000124           05 FILLER PIC X(02)  VALUE SPACES.
000125           05 FILLER PIC X(09) VALUE 'Plan-Det'.
000126           05 FILLER PIC X(21)  VALUE SPACES.
```

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```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 00072
Command ===>                                                 Scroll ===> CSR
000126           05 FILLER PIC X(21)  VALUE SPACES.
000127           05 FILLER PIC X(09) VALUE 'Mail-ID'.
000128           05 FILLER PIC X(20)  VALUE SPACES.
000129           05 FILLER PIC X(01)  VALUE SPACES.
000130        01 WS-DOUBLE-LINE.
000131           05 FILLER PIC X(120) VALUE ALL '='.
000132        01 WS-SINGLE-LINE.
000133           05 FILLER PIC X(120) VALUE ALL '-'.
000134 001710 01 TSCDT-ENTRY.
000135           05 SR-NO PIC 9(02).
000136           05 FILLER PIC X(03).
000137 001800    05 CUST-NAME PIC A(30).
000138       *       10 FIRST-NAME PIC A(15) VALUE 'firstName'.
000139       *       10 LAST-NAME PIC A(15) VALUE 'lastName'.
000140       *       ---(ABOVE NAME COULD BE DONE IN OPTIONAL WAY)---
000141 001720    05 TRANSACTION-ID PIC X(15).
000142 001900    05 MOBILE-NUMBER PIC 9(10).
000143           05 FILLER PIC X(01).
000144 002000    05 PLAN-DETAIL PIC X(30).
000145 001910    05 MAIL-ID PIC X(30).
000146        01 WS-COUNT PIC 9(5) VALUE 0.
000147        01 WS-EOF PIC A VALUE 'N'.
000148       ** PART-3 Data Division (For Declaring Variables & making struc)*
000149       ************************************************************
000150 003200 PROCEDURE DIVISION.
000151 S03300 MAIN-PARA.
```

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```
000151 S03300 MAIN-PARA.
000152 003400     PERFORM OPEN-FILE-PARA.
000153       *    PERFORM READ-FILE-PARA.
000154       *    PERFORM WRITE-FILE-PARA 3 TIMES.
000155       *---(OPTIONAL CHRONOLOGY WHEN WE PERFORM THROUGH INSTREAM METHOD)-
000156 003400     PERFORM REP-HEAD-PARA.
000157           PERFORM REP-COL-PARA.
000158           PERFORM REP-ENTRY-PARA.
000159           PERFORM REP-FOOTER-PARA.
000160           PERFORM READ-FILE-PARA UNTIL TSC-STAT = '10'
000161 003700     STOP RUN.
000162       REP-HEAD-PARA.
000163           DISPLAY WS-DOUBLE-LINE.
000164           ACCEPT SYS-DATE FROM DATE YYYYMMDD.
000165           MOVE CORR SYS-DATE TO ACT-DATE.
000166           DISPLAY WS-REP-HEAD1.
000167           DISPLAY WS-REP-HEAD2.
000168           DISPLAY WS-SINGLE-LINE.
000169           WRITE REP-TSCDT FROM WS-DOUBLE-LINE.
000170           WRITE REP-TSCDT FROM WS-REP-HEAD1.
000171           WRITE REP-TSCDT FROM WS-REP-HEAD2.
000172           WRITE REP-TSCDT FROM WS-SINGLE-LINE.
000173       REP-COL-PARA.
000174           DISPLAY WS-COL-HEAD.
000175           WRITE REP-TSCDT FROM WS-COL-HEAD.
000176       REP-ENTRY-PARA.
```

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```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 000
Command ===> _____________________________________________ Scroll ===> CS
000176        REP-ENTRY-PARA.
000177             DISPLAY TSCDT-ENTRY.
000178       *    WRITE REP-TSCDT FROM TSCDT-ENTRY.
000179        REP-FOOTER-PARA.
000180             DISPLAY WS-DOUBLE-LINE.
000181       *    DISPLAY TOT-INVALID-ENTRY.
000182       *    WRITE REP-TSCDT FROM TOT-INVALID-ENTRY.
000183             WRITE REP-TSCDT FROM WS-DOUBLE-LINE.
000184             MOVE SR-NO TO WS-COUNT.
000185        PRINT-REP-PARA.
000186       *Para to display and write the records of summary report
000187             ADD 1 TO SR-NO.
000188             MOVE CORR TSCDT TO TSCDT-ENTRY.
000189             DISPLAY TSCDT-ENTRY.
000190             WRITE REP-TSCDT FROM TSCDT-ENTRY.
000191 003800 OPEN-FILE-PARA.
000192       *In Open file para we are opening two files
000193       /1.Openinig workfile assigned to REPOKSDS
000194       /2.Opening workfile assigned to REPO (PS FILE))
000195 003900*    OPEN INPUT CUSTIN.
000196       *---(ABOVE IS AN OPEN MODE FOR FIRST TIME)---
000197 003900     OPEN I-O TSCR-FILE.
000198 003900     OPEN OUTPUT REP1-TSC-FILE.
000199 004000             EVALUATE TSC-STAT ALSO REP-TSC-STAT
000200 004100                   WHEN '00' ALSO '00'
000201 004200                        DISPLAY 'FILES OPEN DONE'
```

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```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 00072
Command ===>                                                 Scroll ===> CSR
000201 004200                          DISPLAY 'FILES OPEN DONE'
000202                                 CONTINUE
000203 004300                       WHEN OTHER
000204 004400                          DISPLAY 'ERROR OPENING FILE :'
000205                                   TSC-STAT '  ' REP-TSC-STAT
000206                                   STOP RUN
000207                     END-EVALUATE.
000208 003800 READ-FILE-PARA.
000209 003900*     READ INTO FILE BUFFER FROM PHYSICAL FILE
000210       /1.Reading  workfile assigned to REPOKSDS
000211 003900      READ TSCR-FILE.
000212 004000             EVALUATE TSC-STAT
000213 004100                   WHEN '00'
000214 004200                          DISPLAY 'TSCR-FILE READ DONE'
000215                                 PERFORM PRINT-REP-PARA
000216                                 DIVIDE 3 INTO SR-NO GIVING C REMAINDER B
000217       *                          MOVE 0 TO SR-NO
000218                                 IF B = 00
000219                                     PERFORM REP-FOOTER-PARA
000220                                     DISPLAY 'PAGE BREAK DONE'
000221                                     PERFORM REP-HEAD-PARA
000222                                     PERFORM REP-COL-PARA
000223                                     MOVE 0 TO SR-NO
000224                                     CONTINUE
000225                                 END-IF
000226                          IF PLAN-DETAIL OF TSCDT =
```

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```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
000226                          IF PLAN-DETAIL OF TSCDT =
000227                                  '1.0 GB/DAY COMBO 4G DATA PACK'
000228                                  OR '1.5 GB/DAY COMBO 4G DATA PACK'
000229                                  OR '2.0 GB/DAY COMBO 4G DATA PACK'
000230                                  CONTINUE
000231                          ELSE
000232                          DISPLAY CUST-NAME OF TSCDT
000233                          'YOUR PLAN DETAIL IS INVALID'
000234                          ADD 1 TO WS-TOT-INVALID-ENTRY
000235                          END-IF
000236 004300                 WHEN '10'
000237                              PERFORM REP-FOOTER-PARA
000238                              DISPLAY WS-DOUBLE-LINE
000239                              DISPLAY TOT-INVALID-ENTRY
000240                              WRITE REP-TSCDT FROM TOT-INVALID-ENTRY
000241 003600                        PERFORM CLOSE-FILE-PARA
000242                              STOP RUN
000243                          WHEN OTHER
000244 004400                        DISPLAY 'ERROR READING TSCR-FILE :'
000245                                TSC-STAT
000246                      END-EVALUATE.
000247 004700 WRITE-FILE-PARA.
000248       **In Write Para (writing our report file along with evaluation
000249       / for error codes through instream cobol method)- optional
000250       / the perform writing para is commented on main-para as we
000251       / are collecting entries from the KSDS file.
```

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```
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
000251       / are collecting entries from the KSDS file.
000252 001800        ACCEPT CUST-NAME OF TSCDT.
000253 001720        ACCEPT TRANSACTION-ID OF TSCDT.
000254 001900        ACCEPT MOBILE-NUMBER OF TSCDT.
000255 002000        ACCEPT PLAN-DETAIL OF TSCDT.
000256 001910        ACCEPT MAIL-ID OF TSCDT.
000257       *       WRITE TSCDT FROM TSCDT-ED.
000258               WRITE TSCDT.
000259 004900         EVALUATE TSC-STAT
000260 005000               WHEN '00'
000261 005100                    DISPLAY 'OP FILE WRITTEN SUCCESFULLY'
000262 005000               WHEN '22'
000263 005100                    DISPLAY 'INVALID KEY'
000264 005200               WHEN OTHER
000265 005300                    DISPLAY 'ERROR WRITING OP FILE' TSC-STAT
000266                 END-EVALUATE.
000267 005500 CLOSE-FILE-PARA.
000268       **In Close Para (will close our report file along with evaluation
000269       / for error codes)
000270 005600      CLOSE TSCR-FILE.
000271 006000      EVALUATE TSC-STAT
000272 006100            WHEN '00'
000273 006200                 DISPLAY 'FILES CLOSE DONE'
000274                  WHEN OTHER
000275                       DISPLAY 'ERROR CLOSE  FILE :' TSC-STAT
000276                       STOP RUN
```

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```
Clear  Erase  PA1  PA2  PA3  EraseF
  File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
--------------------------------------------------------------------------------
EDIT       CAPGB28.ABHI.NEWPDS(OMRPSTD) - 01.34            Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
000276                       STOP RUN
000277            END-EVALUATE.
000278       ** PART-4 Procedure Division for performing various operations **
000279       **                                   from diff paragraphs.      **
000280       ********************************************************************
****** ***************************** Bottom of Data ******************************
```

----------THANK YOU----------