INFO3105 Week 8 Class 2

Review

- AIX
- Transaction processing
- PCS2PRG1 – Add Trans
- Evaluate

The next transaction type we'll look at before doing the bulk of the transactions is the **delete** transaction. To process a delete we need to look at the syntax for deleting a record in an indexed file:

Evaluate revisited

You would think you should be able to write an EVALUATE statement based on the following 88 clauses like this:

```
05 TRANS-TYPE                  PIC X.
       88 TRANS-ADD                VALUE 'A'.
       88 TRANS-DEL                VALUE 'D'.
       88 TRANS-CHG                VALUE 'C'.
       88 TRANS-SALE               VALUE 'S'.
       88 TRANS-RET                VALUE 'R'.


  EVALUATE TRANS-TYPE
      WHEN TRANS-ADD
           ..
      WHEN TRANS-DEL
           ..
      WHEN TRANS-CHG
           ..
      WHEN TRANS-SALE
           ..
      WHEN TRANS-RET
           ..
   END-EVALUATE
```

But this article shows why it won't work (it also shows the work around):

https://www.ibm.com/developerworks/community/forums/html/topic?id=990a507b-4ba3-448f-aed1-9dc620e21497

Deleting Existing Records

An option that is not available to us when we process sequential files is to delete a record from the file. Prior to indexed files, whole new sequential files were created with the deleted record not put into the new file. With our indexed format we can delete any record we wish. The only requirement to do a delete is to ensure the program "knows" the key of the record, which in our case is the salesperson number. Then to actually remove the record from the file we issue a DELETE:

```
DELETE SALESMAST RECORD
  INVALID KEY MOVE 'PROBLEM DELETING STATUS IS:'
         TO WS-ER-PROBLEM.
```

Creatng a Transaction Log

```
--+----1----+----2----+----3----+----4----+----5----+----6----+----7---
   PAGE    1                    ABC CORPORATION                02/26/2013
                              SALES TRANSACTION LOG
 TRANS NO. SALESPERSON    TRANS DATE        TYPE           AMOUNT
 00004         16825        11/11/03        DELETE
 00013         44931        11/11/05        DELETE
 00015         19644        11/11/06        ADD
 00025         46827        11/11/12        ADD
 # OF   SALES TRANS
 # OF   RETURN TRANS
 # OF   ADD TRANS       002
 # OF   DEL TRANS       002
 # OF   CHANGE TRANS
```

The finished program will have more than just the displays we looked at last class. We want to create a Transaction Log to have an audit trail of changes made to the file. Basically you want to record the transaction #, the primary key that was changed, the date of the change, the type of the change, we will look at the amount column next class. Then total up the number of each of the different types at the bottom of the log. To do this you'll need to establish some counter fields in working storage.

Don't forget to use the TD standards for this program as well, for instance here would be a sample flower box at the start of the program:

```
 PROGRAM-ID. PCS2PRG1.
*****************************************************************
*                      INFO3105 CASE2                           *
*                        PCS2PRG1                               *
*                 COBOL ZOS PROGRAM DESCRIPTION                 *
*****************************************************************
* PROGRAM DESCRIPTION:                                          *
*   PROGRAM TO PROCESS TRANSACTION SALES RECORDS AGAINST THE     *
*   SALESPERSON MASTER FILE. NOTE THE MASTER FILE WAS CONVERTED  *
*   TO A VSAM KSDS FOR THIS CASE STUDY.                         *
*                                                               *
* INPUT DD  NAME    FILE IDENTIFIER    FILE DESCRIPTION         *
* --------------    ---------------    ----------------         *
*   SLSTRANS          SALESTRANS       SALES TRANSACTIONS       *
*   SLSPKS            SALESMAST        SALESPERSON VSAM KSDS    *
*                                                               *
* OUTPUT DD  NAME   FILE IDENTIFIER    FILE DESCRIPTION         *
* ----------------  ---------------    ----------------         *
*   PRNT              SALESRPT         SYSOUT REPORT FILE       *
*                                                               *
*   COPYBOOKS         DESCRIPTION                               *
* ----------------  ---------------                            *
*   CCS2SLST         LAYOUT FOR STATIC PART OF TRANS            *
*   CCS2SLSW         LAYOUT FOR DYNAMIC PART OF TRANS           *
*   CCS2SLSP         LAYOUT FOR SALESPERSON MASTER              *
*****************************************************************
 ENVIRONMENT DIVISION.
```

Lab 11 - 2%

Read the article from above on the EVALUATE statement's use with 88 clauses, then make the necessary adjustments to your code to use the technique suggested in the responses. Then create the new log report and process both the ADD and the DELETE transactions

Submit:

- Compiler results
- Complete JCS2LDRN results