

IDENTIFICATION DIVISION.

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PROGRAM-ID. VSEX7-2.

AUTHOR. TYLER SATHER.

INSTALLATION. M STATE.

DATE-WRITTEN. APRIL 8TH 2020.

DATE-COMPILED.

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\* PROGRAM NARRATIVE \*

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\* THIS PROGRAM READS ALL RECORDS IN THE CUSTOMER FILE \*

\* FOR THE ABC DEPARTMENT STORE AND DISPLAYS A DETAIL \*

\* CONTAINING A DATE OF PURCHASE, AN ACCOUNT NUMBER, \*

\* CUSTOMER NAME, CLERK NAME, AND PURCHASE AMOUNT. A \*

\* A RECORD COUNT IS DISPLAYE AT THE END OF THE REPORT. \*

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\* INPUT: CUSTOMER.DAT - CUSTOMER INPUT FILE \*

\* CLRKNAME.DAT - CLERK FILE FOR LOADING TABLE \*

\* WITH CLERK NAMES \*

\* OUTPUT: VSEX7-2.RPT - CLERK NAME REPORT \*

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ENVIRONMENT DIVISION.

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INPUT-OUTPUT SECTION.

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FILE-CONTROL.

SELECT CUSTOMER-FILE

ASSIGN TO "C:\Users\sathe\Desktop\Mstate\COBOL\Data\CUSTOMER.DAT".

SELECT CLERK-NAME-FILE

ASSIGN TO "C:\Users\sathe\Desktop\Mstate\COBOL\Data\CLRKNAME.DAT".

SELECT REPORT-FILE

ASSIGN TO "C:\Users\sathe\Desktop\Mstate\COBOL\CH7\VSEX7-2.RPT".

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DATA DIVISION.

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FILE SECTION.

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\* INPUT-FILE - CUSTOMER FILE \*

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FD CUSTOMER-FILE.

01 CUSTOMER-REC PIC X(74).

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\* INPUT-FILE - SALES CLERKNAME FILE FOR LOADING TABLE \*

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FD CLERK-NAME-FILE.

01 CLERK-NAME-RECORD.

02 CNR-ID PIC XX.

02 CNR-NAME PIC X(20).

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\* REPORT-FILE \*

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FD REPORT-FILE.

01 REPORT-LINE-OUT PIC X(80).

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WORKING-STORAGE SECTION.

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\* SWITCHES \*

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01 SWITCHES.

02 SW-END-OF-FILE PIC X.

88 END-OF-FILE VALUE "Y".

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\* ACCUMULATORS \*

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01 ACCUMULATORS.

02 AC-LINE-COUNT PIC 999.

02 AC-PAGE-COUNT PIC 999.

02 AC-RECORD-COUNT PIC 999.

02 AC-TOTAL-PURCHASES PIC 9(5)V99.

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\* \*

\* WORK AREA FIELDS \*

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01 WORK-AREA.

02 WA-TODAYS-DATE-TIME.

03 WA-TODAYS-DATE.

04 WA-TODAYS-YEAR PIC 9(4).

04 WA-TODAYS-MONTH PIC 99.

04 WA-TODAYS-DAY PIC 99.

03 WA-TODAYS-TIME.

04 WA-TODAYS-HOUR PIC 99.

04 WA-TODAYS-MINUTES PIC 99.

03 PIC X(9).

02 WA-DATE.

03 WA-MONTH PIC 99.

03 WA-DAY PIC 99.

03 WA-YEAR PIC 9(4).

02 WA-RUN-DATE REDEFINES

WA-DATE PIC 9(8).

02 WA-AM-PM PIC XX.

02 WA-SUB PIC 99.

02 WA-PURCHASE-DATE.

03 WA-PURCHASE-DAY PIC XX.

03 PIC X VALUE "-".

03 WA-PURCHASE-MONTH PIC XXX.

03 PIC X VALUE "-".

03 WA-PURCHASE-YEAR PIC X(4).

02 WA-SCREEN-HOLD PIC X.

02 WA-HYPHENS PIC X(20) VALUE ALL "-".

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\* EMBEDDED MONTH NAME TABLE \*

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01 MONTH-TABLE-DATA.

02 PIC XXX VALUE "JAN".

02 PIC XXX VALUE "FEB".

02 PIC XXX VALUE "MAR".

02 PIC XXX VALUE "APR".

02 PIC XXX VALUE "MAY".

02 PIC XXX VALUE "JUN".

02 PIC XXX VALUE "JUL".

02 PIC XXX VALUE "AUG".

02 PIC XXX VALUE "SEP".

02 PIC XXX VALUE "OCT".

02 PIC XXX VALUE "NOV".

02 PIC XXX VALUE "DEC".

01 MONTH-TABLE REDEFINES MONTH-TABLE-DATA .

02 MNT-NAME OCCURS 12 TIMES PIC XXX.

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\* NON-EMBEDDED WAREHOUSE TABLE \*

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01 CLERK-NAME-TABLE.

02 CNT-ENTRY OCCURS 11 TIMES

ASCENDING KEY CNT-ID

INDEXED BY CNT-INDEX.

03 CNT-ID PIC XX.

03 CNT-NAME PIC X(20).

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\* CUSTOMER FILE RECORD LAYOUT \*

\* PURCHASE DATE - MMDDYYYY FORMAT \*

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01 CUSTOMER-RECORD.

02 CR-PURCHASE-DATE PIC 9(8).

02 CR-ACCOUNT-NUMBER PIC X(6).

02 CR-CUSTOMER-NAME PIC X(20).

02 CR-ITEM-PURCHASED PIC X(20).

02 CR-QUANTITY PIC 9.

02 CR-BALANCE PIC S9(4)V99.

02 CR-PURCHASE-AMOUNT PIC 9(4)V99.

02 PIC X(5).

02 CR-CLERK-ID PIC XX.

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\* REPORT HEADINGS FOR THE CLERK NAME REPORT \*

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01 REPORT-HEADINGS.

02 RH-LINE-1.

03 PIC X(6) VALUE "DATE: ".

03 RH-RUN-DATE PIC Z9/99/9999.

03 PIC X(11) VALUE SPACES.

03 PIC X(20) VALUE

"ABC DEPARTMENT STORE".

03 PIC X(17) VALUE SPACES.

03 PIC X(5) VALUE

"PAGE".

03 RH-PAGE PIC ZZ9.

02 RH-LINE-2.

03 PIC X(6) VALUE

"TIME: ".

03 RH-HOUR PIC X9.

03 PIC X VALUE ":".

03 RH-MINUTES PIC 99.

03 RH-AM-PM PIC XX.

03 PIC X(15) VALUE SPACES.

03 PIC X(17) VALUE

"CLERK NAME REPORT".

02 RH-LINE-2A.

03 PIC X(12) VALUE

"TYLER SATHER".

02 RH-LINE-3.

03 PIC X(7) VALUE

"DATE OF".

03 PIC X(6) VALUE SPACES.

03 PIC X(7) VALUE "ACCOUNT".

03 PIC X(43) VALUE SPACES.

03 PIC X(8) VALUE "PURCHASE".

02 RH-LINE-4.

03 PIC X(8) VALUE "PURCHASE".

03 PIC X(5) VALUE SPACES.

03 PIC X(6) VALUE "NUMBER".

03 PIC XX VALUE SPACES.

03 PIC X(13) VALUE

"CUSTOMER NAME".

03 PIC X(8) VALUE SPACES.

03 PIC X(10) VALUE

"CLERK NAME".

03 PIC X(11) VALUE SPACES.

03 PIC X(6) VALUE "AMOUNT".

02 RH-LINE-5.

03 PIC X(11) VALUE ALL "\_".

03 PIC XX VALUE SPACES.

03 PIC X(7) VALUE ALL "\_".

03 PIC X VALUE SPACES.

03 PIC X(20) VALUE ALL "\_".

03 PIC XX VALUE SPACES.

03 PIC X(20) VALUE ALL "\_".

03 PIC X VALUE SPACES.

03 PIC X(9) VALUE ALL "\_".

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\* DETAIL LINE FOR THE CLERK NAME REPORT \*

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01 DETAIL-LINE.

02 DL-PURCHASE-DATE PIC X(11).

02 PIC XX VALUE SPACES.

02 DL-ACCOUNT-NUMBER PIC X(6).

02 PIC XX VALUE SPACES.

02 DL-CUSTOMER-NAME PIC X(20).

02 PIC X VALUE SPACES.

02 DL-CLERK-NAME PIC X(20).

02 PIC X VALUE SPACES.

02 DL-PURCHASE-AMOUNT PIC $Z,ZZZ.99.

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\* SUMMARY LINE FOR THE CLERK NAME REPORT \*

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01 SUMMARY-LINES.

02 SL-LINE-1.

03 PIC X(18) VALUE SPACES.

03 PIC X(26) VALUE

"TOTAL RECORDS PROCESSED =".

03 PIC X VALUE SPACES.

03 SL-RECORD-COUNT PIC ZZ9.

02 SL-LINE-2.

03 PIC X(18) VALUE SPACES.

03 PIC X(18) VALUE

"TOTAL PURCHASES =".

03 PIC XX VALUE SPACES.

03 SL-TOTAL-PURCHASES PIC $ZZ,ZZZ.99.

02 SL-LINE-3.

03 PIC X(24) VALUE SPACES.

03 PIC X(13) VALUE

"END OF REPORT".

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PROCEDURE DIVISION.

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\* MAIN-PROGRAM. THIS IS THE MAIN PARAGRAPH OF THIS PROGRAM \*

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MAIN-PROGRAM.

PERFORM A-100-INITIALIZATION.

PERFORM B-100-LOAD-CLERK-NAME-TABLE.

PERFORM C-100-PROCESS-FILE.

PERFORM D-100-WRAP-UP.

STOP RUN.

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\* HOUSEKEEPING PARAGRAPH FOLLOWS \*

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A-100-INITIALIZATION.

INITIALIZE ACCUMULATORS.

OPEN OUTPUT REPORT-FILE.

MOVE FUNCTION CURRENT-DATE TO WA-TODAYS-DATE-TIME.

MOVE WA-TODAYS-MONTH TO WA-MONTH.

MOVE WA-TODAYS-DAY TO WA-DAY.

MOVE WA-TODAYS-YEAR TO WA-YEAR.

EVALUATE TRUE

WHEN WA-TODAYS-HOUR = 00

MOVE "AM" TO WA-AM-PM

MOVE 12 TO WA-TODAYS-HOUR

WHEN WA-TODAYS-HOUR < 12

MOVE "AM" TO WA-AM-PM

WHEN WA-TODAYS-HOUR = 12

MOVE "PM" TO WA-AM-PM

WHEN WA-TODAYS-HOUR > 12

MOVE "PM" TO WA-AM-PM

SUBTRACT 12 FROM WA-TODAYS-HOUR.

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\* TABLE LOADING PARAGRAPH \*

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B-100-LOAD-CLERK-NAME-TABLE.

OPEN INPUT CLERK-NAME-FILE.

MOVE "N" TO SW-END-OF-FILE.

READ CLERK-NAME-FILE

AT END

MOVE "Y" TO SW-END-OF-FILE.

PERFORM B-200-LOAD

VARYING CNT-INDEX FROM 1 BY 1

UNTIL END-OF-FILE OR CNT-INDEX > 11.

CLOSE CLERK-NAME-FILE.

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\* MOVE CLERK NAME TO DATA TO NAME TABLE \*

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B-200-LOAD.

MOVE CNR-ID TO CNT-ID(CNT-INDEX).

MOVE CNR-NAME TO CNT-NAME(CNT-INDEX).

READ CLERK-NAME-FILE

AT END

MOVE "Y" TO SW-END-OF-FILE.

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\* FILE PROCESSING CONTROL PARAGRAPH \*

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C-100-PROCESS-FILE.

OPEN INPUT CLERK-NAME-FILE.

MOVE "N" TO SW-END-OF-FILE.

READ CLERK-NAME-FILE INTO CLERK-NAME-RECORD

AT END

MOVE "Y" TO SW-END-OF-FILE.

PERFORM C-200-PROCESS-RECORD

UNTIL END-OF-FILE.

MOVE AC-RECORD-COUNT TO SL-RECORD-COUNT.

MOVE AC-TOTAL-PURCHASES TO SL-TOTAL-PURCHASES.

ADD 1 TO AC-LINE-COUNT.

WRITE REPORT-LINE-OUT FROM SL-LINE-1

AFTER ADVANCING 2 LINES.

ADD 1 TO AC-LINE-COUNT.

WRITE REPORT-LINE-OUT FROM SL-LINE-2

AFTER ADVANCING 1 LINE.

ADD 2 TO AC-LINE-COUNT.

WRITE REPORT-LINE-OUT FROM SL-LINE-3

AFTER ADVANCING 1 LINE.

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\* SEARCH TABLE AND DISPLAY DETAIL LINE \*

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C-200-PROCESS-RECORD.

IF AC-LINE-COUNT = 0

PERFORM C-400-WRITE-HEADINGS.

MOVE CR-PURCHASE-DATE TO WA-PURCHASE-DAY.

MOVE CR-PURCHASE-DATE TO WA-SUB.

MOVE MNT-NAME(WA-SUB) TO WA-PURCHASE-MONTH.

MOVE CR-PURCHASE-DATE TO WA-PURCHASE-YEAR.

SET CNT-INDEX TO 1.

SEARCH CNT-ENTRY

AT END

MOVE "NOT FOUND" TO CNT-NAME(CNT-INDEX)

WHEN CNT-ID(CNT-INDEX) = CNR-ID

MOVE CNT-ID(CNT-INDEX) TO CNR-ID

MOVE CNT-NAME(CNT-INDEX) TO CNR-NAME.

MOVE WA-PURCHASE-DATE TO DL-PURCHASE-DATE.

MOVE CR-ACCOUNT-NUMBER TO DL-ACCOUNT-NUMBER.

MOVE CR-CUSTOMER-NAME TO DL-CUSTOMER-NAME.

MOVE CNR-NAME TO DL-CLERK-NAME.

MOVE CR-PURCHASE-AMOUNT TO DL-PURCHASE-AMOUNT,

WRITE REPORT-LINE-OUT FROM DETAIL-LINE

AFTER ADVANCING 1 LINE.

ADD 1 TO AC-LINE-COUNT.

ADD 1 TO AC-RECORD-COUNT.

ADD CR-PURCHASE-AMOUNT TO AC-TOTAL-PURCHASES.

IF AC-LINE-COUNT > 55

PERFORM C-400-WRITE-HEADINGS.

READ CUSTOMER-FILE INTO CUSTOMER-RECORD

AT END

MOVE "Y" TO SW-END-OF-FILE.

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\* HEADING PARAGRAPH \*

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C-400-WRITE-HEADINGS.

ADD 1 TO AC-PAGE-COUNT.

MOVE 0 TO AC-LINE-COUNT.

MOVE WA-RUN-DATE TO RH-RUN-DATE.

MOVE AC-PAGE-COUNT TO RH-PAGE.

MOVE WA-TODAYS-HOUR TO RH-HOUR.

MOVE WA-TODAYS-MINUTES TO RH-MINUTES.

MOVE WA-AM-PM TO RH-AM-PM.

WRITE REPORT-LINE-OUT FROM RH-LINE-1

AFTER ADVANCING 2 LINES.

WRITE REPORT-LINE-OUT FROM RH-LINE-2

AFTER ADVANCING 1 LINE.

WRITE REPORT-LINE-OUT FROM RH-LINE-2A

AFTER ADVANCING 1 LINE.

WRITE REPORT-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 2 LINES.

WRITE REPORT-LINE-OUT FROM RH-LINE-4

AFTER ADVANCING 1 LINE.

WRITE REPORT-LINE-OUT FROM RH-LINE-5

AFTER ADVANCING 1 LINE.

ADD 8 TO AC-LINE-COUNT.

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\* END OF JOB PARAGRAPH \*

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D-100-WRAP-UP.

ACCEPT WA-SCREEN-HOLD.

CLOSE CUSTOMER-FILE

REPORT-FILE.

DISPLAY " ".

DISPLAY "CLERK NAME REPORT PROGRAM HAS TERMINATED".

DISPLAY " ".

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\* END OF PROGRAM \*

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