DATE: 4/27/2020 EZ AUTO SALES PAGE: 1

TIME: 7:03PM CUSTOMER SALES TRANSACTION REPORT

TYLER SATHER

TRANSACTION RECORD MESSAGE

-------------------------------------------- ------------------------------

4NN610272001CHEVROLET 044005019940 CUSTOMER NUMBER NOT NUMERIC

405110152001DODGE BROS. 095005019944 SATISFACTION CODE OUT OF RANGE

408411072001FORD 0LL5000199L2 AUTO YEAR NOT NUMERIC

II5610212001FORD 000500019951 CUSTOMER NUMBER NOT NUMERIC

PRICE TOO BELOW MINIMUM

4035OO302001STUDEBAKER 040000019651 PURCAHSE DATE NOT NUMERIC

405910202001AUBURN 100000019351 TRANSACTION POSTED

100308282001FORD 072000019640 TRANSACTION POSTED

100810022001HUDSON 050005019932 TRANSACTION POSTED

101011012001PIERCE-ARROW 105000019350 TRANSACTION POSTED

101511022001STUDEBAKER 005500019591 TRANSACTION POSTED

102011022001STUDEBAKER 005500019591 UNMATCHED TRANSACTION

102011022001STUDEBAKER 005500019591 TRANSACTION POSTED

103109092001FORD 025500019960 TRANSACTION POSTED

103309032001HUDSON 120000019562 TRANSACTION POSTED

104109142001CHEVROLET 034000019860 TRANSACTION POSTED

104510142001FORD 100000019852 TRANSACTION POSTED

105511282001STUDEBAKER 035000019661 TRANSACTION POSTED

105610212001FORD 043000019951 TRANSACTION POSTED

106110152001DODGE BROS. 130000019962 TRANSACTION POSTED

106309272001DODGE BROS. 080000019950 TRANSACTION POSTED

106710312001PIERCE-ARROW 150000019360 TRANSACTION POSTED

107011122001PIERCE-ARROW 120000019310 TRANSACTION POSTED

107511222001HUDSON 100000019571 TRANSACTION POSTED

107611202001HUDSON 030005019470 TRANSACTION POSTED

108010232001FORD 090500019952 TRANSACTION POSTED DATE: 4/27/2020 EZ AUTO SALES PAGE: 2

TIME: 7:03PM CUSTOMER SALES TRANSACTION REPORT

TYLER SATHER

TRANSACTION RECORD MESSAGE

-------------------------------------------- ------------------------------

200209072001FORD 115000019960 TRANSACTION POSTED

200411132001CHEVROLET 085000019970 TRANSACTION POSTED

201110212001PIERCE-ARROW 120000019320 TRANSACTION POSTED

201210202001PIERCE-ARROW 115002519342 TRANSACTION POSTED

202410152001HUDSON 033000019531 TRANSACTION POSTED

203111122001FORD 120000019962 TRANSACTION POSTED

204311162001STUDEBAKER 130000019660 TRANSACTION POSTED

204810212001CHEVROLET 110000019960 TRANSACTION POSTED

205010122001PIERCE-ARROW 140000019342 TRANSACTION POSTED

206511122001STUDEBAKER 010800019651 TRANSACTION POSTED

208511092001HUDSON 040000019551 TRANSACTION POSTED

209110052001FORD 089000019942 TRANSACTION POSTED

300309292001FORD 070000019941 TRANSACTION POSTED

301110222001CHEVROLET 110000019970 TRANSACTION POSTED

301511212001PIERCE-ARROW 120000019272 TRANSACTION POSTED

302509192001STUDEBAKER 062000019661 TRANSACTION POSTED

302611252001STUDEBAKER 043000019961 TRANSACTION POSTED

303111132001PIERCE-ARROW 130000019332 TRANSACTION POSTED

304310252001DODGE BROS. 090000019950 TRANSACTION POSTED

304710212001CHEVROLET 050000019940 TRANSACTION POSTED

305011052001PIERCE-ARROW 105000019312 TRANSACTION POSTED

305509172001AUBURN 130000019291 TRANSACTION POSTED

305611092001HUDSON 070000019571 TRANSACTION POSTED

306110222001FORD 110000019960 TRANSACTION POSTED

306210102001CHEVROLET 045000019950 TRANSACTION POSTED DATE: 4/27/2020 EZ AUTO SALES PAGE: 3

TIME: 7:03PM CUSTOMER SALES TRANSACTION REPORT

TYLER SATHER

TRANSACTION RECORD MESSAGE

-------------------------------------------- ------------------------------

306609222001AUBURN 140900019330 TRANSACTION POSTED

307210242001PIERCE-ARROW 146000019322 TRANSACTION POSTED

308011212001STUDEBAKER 060000019631 TRANSACTION POSTED

309410132001HUDSON 050000019571 TRANSACTION POSTED

309410132001HUDSON 040000019571 DUPLICATE TRANSACTION

309410132001HUDSON 040000019571 TRANSACTION POSTED

400510252001PIERCE-ARROW 120000019262 TRANSACTION POSTED

400911202001AUBURN 110000019341 TRANSACTION POSTED

401210122001HUDSON 045000019551 TRANSACTION POSTED

402111112001FORD 087000019950 TRANSACTION POSTED

402210172001FORD 068000019931 TRANSACTION POSTED

402411012001 0M5000019950 TRANSACTION POSTED

403210282001PIERCE-ARROW 120000019352 TRANSACTION POSTED

403810082001DODGE BROS. 036000019891 TRANSACTION POSTED

404411092001STUDEBAKER 100000019662 TRANSACTION POSTED

404711122001DODGE BROS. 030000019891 TRANSACTION POSTED

404910212001DODGE BROS. 060000019951 UNMATCHED TRANSACTION

404910212001DODGE BROS. 060000019951 TRANSACTION POSTED

405609282001STUDEBAKER 050000019631 TRANSACTION POSTED

405910202001AUBURN 100000019351 TRANSACTION POSTED

406111172001FORD 075000019952 TRANSACTION POSTED

406611072001CHEVROLET 080005019960 TRANSACTION POSTED

406711252001DODGE BROS. 110000019960 TRANSACTION POSTED

407310262001PIERCE-ARROW 098000019292 TRANSACTION POSTED

408111272001STUDEBAKER 040000019641 TRANSACTION POSTED DATE: 4/27/2020 EZ AUTO SALES PAGE: 4

TIME: 7:03PM CUSTOMER SALES TRANSACTION REPORT

TYLER SATHER

TRANSACTION RECORD MESSAGE

-------------------------------------------- ------------------------------

408411072001FORD 050000019940 TRANSACTION POSTED

409010092001FORD 082000019951 TRANSACTION POSTED

409410142001CHEVROLET 035000019930 TRANSACTION POSTED

411510232001PIERCE-ARROW 120000019320 TRANSACTION POSTED

TOTAL BAD TRANSACTIONS = 5

TOTAL POSTED TRANSACTIONS = 71

TOTAL UNMATCHED TRANSACTIONS = 2

TOTAL DUPLICATE TRANSACTIONS = 1

END OF REPORT

IDENTIFICATION DIVISION.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PROGRAM-ID. VSEX9-3.

AUTHOR. TYLER SATHER.

INSTALLATION. MSTATE.

DATE-WRITTEN. APR. 25, 2020.

DATE-COMPILED.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* PROGRAM NARRATIVE \*

\* \*

\* THIS PROGRAM VALIDATES AND SORTS RECORDS IN A TRANSACTION \*

\* FILE THAT IS THEN USED TO UPDATE THE RECORDS IN THE CUSTOMER\*

\* SALES FILE. THE RECORDS IN THE SALES FILE ARE ALREADI IN \*

\* SEQUENCE BY CUSTOMER NUMBER. THE SALES FILE IS OPEN FOR I-O \*

\* AND UPDATED IN PLACE USING THE REWRITE STATEMENT. A REPORT \*

\* IS CREATED LISTING THE DISPOSITION OF EVERY TRANSACTION. \*

\* DURING PROCESSING. AUTO MAKE, AUTO YEAR, PURCHASE DATE, \*

\* PURCHASE PRICE, AND SATISFACTION RATING ARE ALL UPDATED \*

\* \*

\* \*

\* \*

\* INPUT FILE: AUTOTRAN.DAT - TRANSACTION FILE \*

\* \*

\* INPUT/OUTPUT: CUSTSALE.DAT - CUSTOMER SALES FILE \*

\* STRANFL.DAT - SORTED TRANSACTION FILE\*

\* \*

\* OUTPUT: VSEX9-3A.RPT - TRANSACTION REPORT \*

\* \*

\* SORT FILE: SORTWORK - SORT FILE FOR TRANSACTIONS\*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

/

ENVIRONMENT DIVISION.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

INPUT-OUTPUT SECTION.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FILE-CONTROL.

SELECT TRANSACTION-FILE

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

ORGANIZATION IS LINE SEQUENTIAL.

SELECT CUSTOMER-SALES-FILE

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

SELECT SORTED-TRANSACTION-FILE

ASSIGN TO "C:\Users\sathe\Desktop\Mstate\COBOL\Ch9\STRANFL.DAT".

SELECT TRANSACTION-REPORT

ASSIGN TO "C:\Users\sathe\Desktop\Mstate\COBOL\Ch9\VSEX9-3A.RPT".

SELECT SORT-FILE

ASSIGN TO "SORTWORK".

/

DATA DIVISION.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FILE SECTION.

\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* TRANSACTION FILE - VALIDATED AND SORTED IN THE \*

\* PROGRAM. \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FD TRANSACTION-FILE.

01 TRANSACTION-RECORD.

02 TR-CUSTOMER-NUMBER PIC X(4).

02 TR-PURCHASE-DATE-ALPHA PIC X(8).

02 TR-PURCHASE-DATE REDEFINES

TR-PURCHASE-DATE-ALPHA PIC 9(8).

02 TR-AUTO-MAKE PIC X(20).

02 TR-PURCHASE-PRICE-ALPHA PIC X(7).

02 TR-PURCHASE-PRICE REDEFINES

TR-PURCHASE-PRICE-ALPHA PIC 9(5)V99.

02 TR-AUTO-YEAR PIC X(4).

02 TR-SATISFACTION-CODE PIC X.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* INPUT-FILE - CUSTOMER SALES FILE \*

\* THE RECORD LAYOUT, CUSTOMER-RECORD, IS DEFINED IN THE \*

\* WORKING-STORAGE SECTION \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FD CUSTOMER-SALES-FILE.

01 CUST-RECORD PIC X(76).

/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* SORTED TRANSACTION FILE - CONTAINS SORTED TRANSACTIONS \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FD SORTED-TRANSACTION-FILE.

01 SORTED-TRAN-RECORD.

02 STR-CUSTOMER-NUMBER PIC X(4).

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

02 STR-AUTO-MAKE PIC X(20).

02 STR-PURCHASE-PRICE PIC 9(5)V99.

02 STR-AUTO-YEAR PIC X(4).

02 STR-SATISFACTION-CODE PIC X.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* TRANSACTION LOG - REPORT ON EVERY TRANSACTION PROCESSED \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FD TRANSACTION-REPORT.

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

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* SORT FILE - FOR SORTING THE TRANSACTION FILE BY \*

\* CUSTOMER NUMBER. \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SD SORT-FILE.

01 SORT-RECORD.

02 SR-CUSTOMER-NUMBER PIC X(4).

02 PIC X(40).

/

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".

02 SW-VALID-TRANSACTION PIC X.

88 VALID-TRANSACTION VALUE "Y".

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\* \*

\* ACCUMULATORS \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

01 ACCUMULATORS.

02 AC-LINE-COUNT PIC 999.

02 AC-PAGE-COUNT PIC 999.

02 AC-BAD-TRANS-COUNT PIC 999.

02 AC-POSTED-TRANS-COUNT PIC 999.

02 AC-UNMATCHED-TRANS-COUNT PIC 999.

02 AC-DUPLICATE-TRANS-COUNT PIC 999.

/

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\* \*

\* WORK AREA FIELDS \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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-TEST-DATE PIC 9(8) VALUE 20011128.

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

02 WA-PREV-CUSTOMER-NUMBER PIC X(4).

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* RECORD LAYOUT - CUSTOMER SALES FILE \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

01 CUSTOMER-SALES-RECORD.

02 CSR-ZIP-CODE PIC X(5).

02 CSR-ZIP-PLUS-4 PIC X(4).

02 CSR-CUSTOMER-NUMBER PIC X(4).

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

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

02 CSR-AUTO-MAKE PIC X(20).

02 CSR-PURCHASE-PRICE PIC 9(5)V99.

02 CSR-AUTO-YEAR PIC X(4).

02 PIC XXX.

02 CSR-SATISFACTION-CODE PIC X.

88 DISSATISFIED VALUE "0".

88 UNDECIDED VALUE "1".

88 SATISFIED VALUE "2".

/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* REPORT HEADINGS FOR TRANSACTION LOG REPORT \*

\* \*

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01 TRANSACTION-REPORT-HEADINGS.

02 TRH-LINE-1.

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

03 TRH-DATE PIC Z9/99/9999.

03 PIC X(17) VALUE SPACES.

03 PIC X(13) VALUE "EZ AUTO SALES".

03 PIC X(26) VALUE SPACES.

03 PIC X(5) VALUE "PAGE:".

03 TRH-PAGE-COUNT PIC ZZ9.

02 TRH-LINE-2.

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

03 TRH-HOUR PIC Z9.

03 PIC X VALUE ":".

03 TRH-MINUTES PIC 99.

03 TRH-AM-PM PIC XX.

03 PIC X(10) VALUE SPACES.

03 PIC X(33) VALUE

"CUSTOMER SALES TRANSACTION REPORT".

02 TRH-LINE-2A.

03 PIC X(12) VALUE "TYLER SATHER".

02 TRH-LINE-3.

03 PIC X(18) VALUE "TRANSACTION RECORD".

03 PIC X(31) VALUE SPACES.

03 PIC X(7) VALUE "MESSAGE".

02 TRH-LINE-4.

03 PIC X(44) VALUE ALL "-".

03 PIC X(5) VALUE SPACES.

03 PIC X(30) VALUE ALL "-".

/

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\* \*

\* DETAIL LINE FOR THE TRANSACTION REPORT \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

01 TRANSACTION-DETAIL-LINE.

02 TDL-TRANSACTION-RECORD PIC X(44).

02 PIC X(5) VALUE SPACES.

02 TDL-MESSAGE PIC X(30).

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\* \*

\* SUMMARY LINES FOR THE TRANSACTION LOG REPORT \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

01 TRANSACTION-SUMMARY-LINES.

02 TSL-BAD-TOTAL.

03 PIC X(23) VALUE SPACES.

03 PIC X(32) VALUE "TOTAL BAD TRANSACTIONS = ".

03 TSL-BAD-TRANS-COUNT PIC ZZ9.

02 TSL-POSTED-TOTAL.

03 PIC X(23) VALUE SPACES.

03 PIC X(32) VALUE "TOTAL POSTED TRANSACTIONS = ".

03 TSL-POSTED-COUNT PIC ZZ9.

02 TSL-UNMATCHED-TRAN-TOTAL.

03 PIC X(23) VALUE SPACES.

03 PIC X(32) VALUE "TOTAL UNMATCHED TRANSACTIONS = ".

03 TSL-UNMATCHED-TRANS-COUNT PIC ZZ9.

02 TSL-DUPLICATE-TRAN-TOTAL.

03 PIC X(23) VALUE SPACES.

03 PIC X(32) VALUE "TOTAL DUPLICATE TRANSACTIONS = ".

03 TSL-DUPLICATE-TRANS-COUNT PIC ZZ9.

02 TSL-END-OF-REPORT.

03 PIC X(34) VALUE SPACES.

03 PIC X(13) VALUE "END OF REPORT".

/

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-TRANSACTION-VALIDATION.

PERFORM C-100-UPDATE-FILE.

PERFORM D-100-WRAP-UP.

STOP RUN.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* HOUSEKEEPING PARAGRAPH FOLLOWS \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

A-100-INITIALIZATION.

INITIALIZE ACCUMULATORS.

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.

MOVE WA-RUN-DATE TO TRH-DATE.

EVALUATE TRUE

WHEN WA-TODAYS-HOUR = 00

MOVE "AM" TO TRH-AM-PM

MOVE 12 TO WA-TODAYS-HOUR

WHEN WA-TODAYS-HOUR < 12

MOVE "AM" TO TRH-AM-PM

WHEN WA-TODAYS-HOUR = 12

MOVE "PM" TO TRH-AM-PM

WHEN WA-TODAYS-HOUR > 12

MOVE "PM" TO TRH-AM-PM

SUBTRACT 12 FROM WA-TODAYS-HOUR.

MOVE WA-TODAYS-HOUR TO TRH-HOUR.

MOVE WA-TODAYS-MINUTES TO TRH-MINUTES.

OPEN OUTPUT TRANSACTION-REPORT.

/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* TRANSACTION VALIDATION -SORT BY CUSTOMER NUMBER \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

B-100-TRANSACTION-VALIDATION.

SORT SORT-FILE

ON ASCENDING KEY SR-CUSTOMER-NUMBER

INPUT PROCEDURE B-200-VALIDATE-TRANS-FILE

GIVING SORTED-TRANSACTION-FILE.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* INPUT PROCEDURE FOR TRANSACTION VALIDATION \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

B-200-VALIDATE-TRANS-FILE.

OPEN INPUT TRANSACTION-FILE.

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

READ TRANSACTION-FILE INTO TRANSACTION-RECORD

AT END

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

PERFORM B-300-RELEASE-TRANSACTION

UNTIL END-OF-FILE.

CLOSE TRANSACTION-FILE.

/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* VALIDATE AND RELEASE TRANSACTIONS \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

B-300-RELEASE-TRANSACTION.

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

MOVE "Y" TO SW-VALID-TRANSACTION.

IF TR-CUSTOMER-NUMBER NOT NUMERIC

MOVE "CUSTOMER NUMBER NOT NUMERIC" TO TDL-MESSAGE

PERFORM B-400-WRITE-LOG.

IF TR-PURCHASE-DATE NOT NUMERIC

MOVE "PURCAHSE DATE NOT NUMERIC" TO TDL-MESSAGE

PERFORM B-400-WRITE-LOG

ELSE

MOVE TR-PURCHASE-DATE(1:2) TO WA-PURCHASE-DATE(5:2)

MOVE TR-PURCHASE-DATE(3:2) TO WA-PURCHASE-DATE(7:2)

MOVE TR-PURCHASE-DATE(5:4) TO WA-PURCHASE-DATE(1:4)

IF WA-PURCHASE-DATE > WA-TEST-DATE

MOVE "DATE OUT OF RANGE" TO TDL-MESSAGE

PERFORM B-400-WRITE-LOG.

IF TR-PURCHASE-PRICE NOT NUMERIC

MOVE "PRICE NOT NUMERIC" TO TDL-MESSAGE

ELSE

IF TR-PURCHASE-PRICE <= 500

MOVE "PRICE TOO BELOW MINIMUM" TO TDL-MESSAGE

PERFORM B-400-WRITE-LOG.

IF TR-AUTO-YEAR NOT NUMERIC

MOVE "AUTO YEAR NOT NUMERIC" TO TDL-MESSAGE

PERFORM B-400-WRITE-LOG

ELSE

IF TR-AUTO-YEAR > WA-TODAYS-YEAR

MOVE "AUTO YEAR OUT OF RANGE" TO TDL-MESSAGE.

IF TR-SATISFACTION-CODE NOT = "0" AND "1" AND "2"

MOVE "SATISFACTION CODE OUT OF RANGE" TO TDL-MESSAGE

PERFORM B-400-WRITE-LOG.

IF VALID-TRANSACTION

RELEASE SORT-RECORD FROM TRANSACTION-RECORD.

READ TRANSACTION-FILE INTO TRANSACTION-RECORD

AT END

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

/

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\* \*

\* WRITE TO TRANSACTION LOG \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

B-400-WRITE-LOG.

IF AC-LINE-COUNT = 0

PERFORM M-500-LOG-HEADINGS.

IF VALID-TRANSACTION

MOVE TRANSACTION-RECORD TO TDL-TRANSACTION-RECORD

WRITE TRAN-REPORT-LINE-OUT FROM TRANSACTION-DETAIL-LINE

AFTER ADVANCING 2 LINES

ADD 2 TO AC-LINE-COUNT

ADD 1 TO AC-BAD-TRANS-COUNT

MOVE SPACES TO TDL-TRANSACTION-RECORD

MOVE "N" TO SW-VALID-TRANSACTION

ELSE

WRITE TRAN-REPORT-LINE-OUT FROM TRANSACTION-DETAIL-LINE

AFTER ADVANCING 1 LINE

ADD 1 TO AC-LINE-COUNT.

IF AC-LINE-COUNT > 55

MOVE ZERO TO AC-LINE-COUNT.

/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* CUSTOMER SALES FILE UPDATE PROCESSING \*

\* \*

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C-100-UPDATE-FILE.

OPEN I-O CUSTOMER-SALES-FILE

INPUT SORTED-TRANSACTION-FILE.

READ CUSTOMER-SALES-FILE INTO CUSTOMER-SALES-RECORD

AT END

MOVE HIGH-VALUES TO CSR-CUSTOMER-NUMBER.

READ SORTED-TRANSACTION-FILE INTO SORTED-TRAN-RECORD

AT END

MOVE HIGH-VALUES TO STR-CUSTOMER-NUMBER.

PERFORM C-200-UPDATE-RECORDS

UNTIL CSR-CUSTOMER-NUMBER = HIGH-VALUES AND

STR-CUSTOMER-NUMBER = HIGH-VALUES.

MOVE AC-BAD-TRANS-COUNT TO TSL-BAD-TRANS-COUNT.

MOVE AC-POSTED-TRANS-COUNT TO TSL-POSTED-COUNT.

MOVE AC-UNMATCHED-TRANS-COUNT TO TSL-UNMATCHED-TRANS-COUNT.

MOVE AC-DUPLICATE-TRANS-COUNT TO TSL-DUPLICATE-TRANS-COUNT.

WRITE TRAN-REPORT-LINE-OUT FROM TSL-BAD-TOTAL

AFTER ADVANCING 3 LINES.

WRITE TRAN-REPORT-LINE-OUT FROM TSL-POSTED-TOTAL

AFTER ADVANCING 1 LINE.

WRITE TRAN-REPORT-LINE-OUT FROM TSL-UNMATCHED-TRAN-TOTAL

AFTER ADVANCING 1 LINE.

WRITE TRAN-REPORT-LINE-OUT FROM TSL-DUPLICATE-TRAN-TOTAL

AFTER ADVANCING 1 LINE.

WRITE TRAN-REPORT-LINE-OUT FROM TSL-END-OF-REPORT

AFTER ADVANCING 2 LINES.

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\* \*

\* UPDATE INVENTORY RECORD PARAGRAPH \*

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C-200-UPDATE-RECORDS.

IF AC-LINE-COUNT = 0

PERFORM M-500-LOG-HEADINGS.

EVALUATE TRUE

WHEN STR-CUSTOMER-NUMBER = CSR-CUSTOMER-NUMBER

PERFORM C-300-POST-TRANSACTION

WHEN STR-CUSTOMER-NUMBER > CSR-CUSTOMER-NUMBER

PERFORM C-310-UNMATCHED-MASTER

WHEN STR-CUSTOMER-NUMBER < CSR-CUSTOMER-NUMBER

PERFORM C-320-UNMATCHED-TRANSACTION.

IF AC-LINE-COUNT > 55

MOVE ZERO TO AC-LINE-COUNT.

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\* POSTED TRANSACTION PARAGRAPH \*

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C-300-POST-TRANSACTION.

MOVE STR-PURCHASE-DATE TO CSR-PURCHASE-DATE.

MOVE STR-PURCHASE-PRICE TO CSR-PURCHASE-PRICE.

MOVE STR-AUTO-MAKE TO CSR-AUTO-MAKE.

MOVE STR-AUTO-YEAR TO CSR-AUTO-YEAR.

MOVE STR-SATISFACTION-CODE TO CSR-SATISFACTION-CODE.

REWRITE CUST-RECORD FROM CUSTOMER-SALES-RECORD.

ADD 1 TO AC-POSTED-TRANS-COUNT.

MOVE TRANSACTION-RECORD TO TDL-TRANSACTION-RECORD.

MOVE "TRANSACTION POSTED" TO TDL-MESSAGE.

WRITE TRAN-REPORT-LINE-OUT FROM TRANSACTION-DETAIL-LINE

AFTER ADVANCING 2 LINES.

ADD 2 TO AC-LINE-COUNT.

MOVE STR-CUSTOMER-NUMBER TO WA-PREV-CUSTOMER-NUMBER.

READ CUSTOMER-SALES-FILE INTO CUSTOMER-SALES-RECORD

AT END

MOVE HIGH-VALUES TO CSR-CUSTOMER-NUMBER.

READ SORTED-TRANSACTION-FILE INTO TRANSACTION-RECORD

AT END

MOVE HIGH-VALUES TO STR-CUSTOMER-NUMBER.

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\* UNMATCHED MASTER RECORD PARAGRAPH \*

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C-310-UNMATCHED-MASTER.

READ CUSTOMER-SALES-FILE INTO CUSTOMER-SALES-RECORD

AT END

MOVE HIGH-VALUES TO CSR-CUSTOMER-NUMBER.

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\* UNMATCHED TRANSACTION PARAGRAPH \*

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C-320-UNMATCHED-TRANSACTION.

IF STR-CUSTOMER-NUMBER = WA-PREV-CUSTOMER-NUMBER

MOVE "DUPLICATE TRANSACTION" TO TDL-MESSAGE

ADD 1 TO AC-DUPLICATE-TRANS-COUNT

ELSE

MOVE "UNMATCHED TRANSACTION" TO TDL-MESSAGE

ADD 1 TO AC-UNMATCHED-TRANS-COUNT.

MOVE TRANSACTION-RECORD TO TDL-TRANSACTION-RECORD.

WRITE TRAN-REPORT-LINE-OUT FROM TRANSACTION-DETAIL-LINE

AFTER ADVANCING 2 LINES.

ADD 2 TO AC-LINE-COUNT.

MOVE STR-CUSTOMER-NUMBER TO WA-PREV-CUSTOMER-NUMBER.

READ SORTED-TRANSACTION-FILE

AT END

MOVE HIGH-VALUES TO STR-CUSTOMER-NUMBER.

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\* TRANSACTION LOG HEADING PARAGRAPH \*

\* PERFORMED IN MULTIPLE STREAMS \*

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M-500-LOG-HEADINGS.

ADD 1 TO AC-PAGE-COUNT.

MOVE AC-PAGE-COUNT TO TRH-PAGE-COUNT.

WRITE TRAN-REPORT-LINE-OUT FROM TRH-LINE-1

AFTER ADVANCING PAGE.

WRITE TRAN-REPORT-LINE-OUT FROM TRH-LINE-2

AFTER ADVANCING 1 LINE.

WRITE TRAN-REPORT-LINE-OUT FROM TRH-LINE-2A

AFTER ADVANCING 1 LINE.

WRITE TRAN-REPORT-LINE-OUT FROM TRH-LINE-3

AFTER ADVANCING 2 LINES.

WRITE TRAN-REPORT-LINE-OUT FROM TRH-LINE-4

AFTER ADVANCING 1 LINE.

MOVE 6 TO AC-LINE-COUNT.

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\* END OF JOB PARAGRAPH \*

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D-100-WRAP-UP.

CLOSE CUSTOMER-SALES-FILE

SORTED-TRANSACTION-FILE

TRANSACTION-REPORT.

DISPLAY " ".

DISPLAY "INVENTORY FILE UPDATE PROGRAM HAS TERMINATED".

DISPLAY " ".

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\* END OF PROGRAM \*

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