DATE: 4/29/2020 EZ AUTO SALES PAGE: 1

TIME: 5:29PM 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 PRICE NOT NUMERIC

AUTO YEAR NOT NUMERIC

II5610212001FORD 000500019951 CUSTOMER NUMBER NOT NUMERIC

PRICE TOO BELOW MINIMUM

402411012001 0M5000019950 PRICE NOT NUMERIC

4035OO302001STUDEBAKER 040000019651 PURCAHSE DATE NOT NUMERIC

100108272001FORD 035500019952 TRANSACTION POSTED

100308282001FORD 072000019640 TRANSACTION POSTED

100810022001HUDSON 050005019932 TRANSACTION POSTED

101011012001PIERCE-ARROW 105000019350 TRANSACTION POSTED

101511022001STUDEBAKER 005500019591 TRANSACTION POSTED

102011022001STUDEBAKER 005500019591 UNMATCHED TRANSACTION

102509212001STUDEBAKER 028800019551 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 DATE: 4/29/2020 EZ AUTO SALES PAGE: 2

TIME: 5:29PM CUSTOMER SALES TRANSACTION REPORT

TYLER SATHER

TRANSACTION RECORD MESSAGE

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

107611202001HUDSON 030005019470 TRANSACTION POSTED

108010232001FORD 090500019952 TRANSACTION POSTED

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 DATE: 4/29/2020 EZ AUTO SALES PAGE: 3

TIME: 5:29PM CUSTOMER SALES TRANSACTION REPORT

TYLER SATHER

TRANSACTION RECORD MESSAGE

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

306110222001FORD 110000019960 TRANSACTION POSTED

306210102001CHEVROLET 045000019950 TRANSACTION POSTED

306609222001AUBURN 140900019330 TRANSACTION POSTED

307210242001PIERCE-ARROW 146000019322 TRANSACTION POSTED

308011212001STUDEBAKER 060000019631 TRANSACTION POSTED

309410132001HUDSON 050000019571 TRANSACTION POSTED

309410132001HUDSON 040000019571 DUPLICATE TRANSACTION

309811142001HUDSON 042000019520 TRANSACTION POSTED

400510252001PIERCE-ARROW 120000019262 TRANSACTION POSTED

400911202001AUBURN 110000019341 TRANSACTION POSTED

401210122001HUDSON 045000019551 TRANSACTION POSTED

402111112001FORD 087000019950 TRANSACTION POSTED

402210172001FORD 068000019931 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

405309232001PIERCE-ARROW 130000019370 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 DATE: 4/29/2020 EZ AUTO SALES PAGE: 4

TIME: 5:29PM CUSTOMER SALES TRANSACTION REPORT

TYLER SATHER

TRANSACTION RECORD MESSAGE

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

408111272001STUDEBAKER 040000019641 TRANSACTION POSTED

408411072001FORD 050000019940 TRANSACTION POSTED

409010092001FORD 082000019951 TRANSACTION POSTED

409410142001CHEVROLET 035000019930 TRANSACTION POSTED

411510232001PIERCE-ARROW 120000019320 TRANSACTION POSTED

TOTAL BAD TRANSACTIONS = 6

TOTAL POSTED TRANSACTIONS = 70

TOTAL UNMATCHED TRANSACTIONS = 2

TOTAL DUPLICATE TRANSACTIONS = 1

END OF REPORT CH9EX3A\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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.

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

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

\* \*

\* SWITCHES \*

\* \*

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

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".

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

\* \*

\* 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.

/

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

\* \*

\* 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 \*

\* \*

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

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 "-".

/

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

\* \*

\* 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).

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

\* \*

\* 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.

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

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

\* \*

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

\* \*

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

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

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 TRANSACTION-RECORD TO TDL-TRANSACTION-RECORD

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-ALPHA 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-ALPHA NOT NUMERIC

MOVE "PRICE NOT NUMERIC" TO TDL-MESSAGE

PERFORM B-400-WRITE-LOG

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

AT END

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

/

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

\* \*

\* WRITE TO TRANSACTION LOG \*

\* \*

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

B-400-WRITE-LOG.

IF AC-LINE-COUNT = 0

PERFORM M-500-LOG-HEADINGS.

IF VALID-TRANSACTION

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 \*

\* \*

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

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

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.

/

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

\* \*

\* UPDATE INVENTORY RECORD PARAGRAPH \*

\* \*

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

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.

/

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

\* \*

\* POSTED TRANSACTION PARAGRAPH \*

\* \*

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

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 SORTED-TRAN-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

AT END

MOVE HIGH-VALUES TO STR-CUSTOMER-NUMBER.

/

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

\* \*

\* UNMATCHED MASTER RECORD PARAGRAPH \*

\* \*

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

C-310-UNMATCHED-MASTER.

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

AT END

MOVE HIGH-VALUES TO CSR-CUSTOMER-NUMBER.

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

\* \*

\* UNMATCHED TRANSACTION PARAGRAPH \*

\* \*

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

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 SORTED-TRAN-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.

/

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

\* \*

\* TRANSACTION LOG HEADING PARAGRAPH \*

\* PERFORMED IN MULTIPLE STREAMS \*

\* \*

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

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.

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

\* \*

\* END OF JOB PARAGRAPH \*

\* \*

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

D-100-WRAP-UP.

CLOSE CUSTOMER-SALES-FILE

SORTED-TRANSACTION-FILE

TRANSACTION-REPORT.

DISPLAY " ".

DISPLAY "CUSTOMER SALES UPDATE PROGRAM HAS TERMINATED".

DISPLAY " ".

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

\* END OF PROGRAM \*

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

/

DATE: 1/06/2015 EZ AUTO SALES PAGE 1

TIME: 9:28PM CUSTOMER ADDRESS REPORT

CUSTOMER STREET AUTO PURCHASE

NAME ADDRESS MAKE PRICE SAT.

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

FOWLER, KATHLEEN 7808 STURDY ROAD AUBURN 13,000.00 UND

GOEBEL, NANCY K. 444 KENNEDY AVE. AUBURN 14,090.00 DISS

HORNSBY, ROGERS 1792 WHITLEY AVE. AUBURN 11,000.00 UND

PATTERSON, LENNI R. 1020 BUTTERFIELD RD. AUBURN 10,000.00 UND

BLONDELL, BONNIE 1011 BELVIEW DR. CHEVROLET 3,400.00 DISS

CRACKLIN, GOODMAN 876 JOE MARTIN RD. CHEVROLET 8,500.00 DISS

DENNICK, DONNA 5505 GREENE ST. CHEVROLET 11,000.00 DISS

EATON, ESTER B. 5520 E. PAYTON ST. CHEVROLET 11,000.00 DISS

FLANNERY, JAMES 50 W. EAST STREET CHEVROLET 5,000.00 DISS

GENNERRO, TONY S. 98 W. LINCOLN HWY. CHEVROLET 4,500.00 DISS

JOHNSON, JACK 7645 HOWARD AVE. CHEVROLET 2,560.50 DISS

NORRIS, CHARLES S. 2529 W. 86TH AVE. CHEVROLET 8,440.00 DISS

REED, ROBERT B. 455 ENTERPRISE WAY CHEVROLET 8,000.50 DISS

WARNER, JACK 11223 SUNSET DRIVE CHEVROLET 3,500.00 DISS

CALBERT, RONALD 2021 CRESTWOOD DR. DODGE BROS. 13,000.00 SAT

CHELSEA, MARTHA S. 1823 N. ADAMS DODGE BROS. 8,000.00 DISS

FARNSWORTH, WESLEY 840 DIRT ROAD DODGE BROS. 9,000.00 DISS

LEVANDOWSKI, JILL 52123 ROOSEVELT RD. DODGE BROS. 3,600.00 UND

NOWAKOWSKI, ALFRED 1991 KING BLVD. DODGE BROS. 3,000.00 UND

RODRIGUEZ, ALONZO 91 W. 114TH NORTH DODGE BROS. 11,000.00 DISS

ALBERT, CARL T. 123 EAST STREET FORD 3,550.00 SAT

ANDREWS, ROBERT 10202 WEST 73RD FORD 7,200.00 DISS

BEZZMEK, JENNIFER 239 COLORADO ST. FORD 2,550.00 DISS

BONADIO, JAMES 23W. 123 NORTH FORD 10,000.00 SAT

BYMANN, FREDRICK 349 W. 73RD AVE. FORD 4,300.00 UND

COOPER, JOHNATHAN 7021 CONGRESS PKWY. FORD 9,050.00 SAT

COREY, SARAH D. 1756 CONKEY ROAD FORD 11,500.00 DISS

DALTON, DAVID P. 6621 183RD AVE. FORD 12,000.00 SAT

DUNLOP, RITA 8008 W. 93RD AVE. FORD 8,900.00 SAT

DYKES, CYNTHIA 9420 STATE RD. 49 FORD 7,000.00 UND

GALLAGHER, CLARENCE 4521 MANARD ROAD FORD 11,000.00 DISS

IDZIOR, RAYMOND 109 WASHINGTON ST. FORD 8,700.00 DISS

JENNINGS, WILLIAM 774 N. JEFFERSON FORD 6,800.00 UND

PERRY, SHAMUS 515 BEVERLY STREET FORD 7,500.00 SAT

TORREZ, MARTIN 391 MONROE, APT. 12 FORD 5,000.00 DISS

TUTTLE, MARK 905 APPLE ORCHARD FORD 8,200.00 UND

ANZIO, RAFELINO 3495 WELMONT ROAD HUDSON 5,000.50 SAT

BLAKE, DONALD 925 LINCOLN HIGHWAY HUDSON 12,000.00 SAT

COLEMAN, THOMAS 1903 THOMAS DR. HUDSON 10,000.00 UND

COLWELL, RICHARD L. 542 OAKLAND CIRCLE HUDSON 3,000.50 DISS

CYBORG, IZORE M. 456 LAKESHORE DR. HUDSON 3,300.00 UND

DOPPLER, RADAR O. 1212 BUCKLEY ROAD HUDSON 4,000.00 UND

FURNACE, DAVID 404 EASY STREET HUDSON 7,000.00 UND

HANCOCK, JONATHON 3101 CHECKER ST. HUDSON 5,000.00 UND

HARTNETT, ROBERTO 56 E. 89TH AVE. HUDSON 4,200.00 DISS

HYATT, JANET F. 98 BAKER STREET HUDSON 4,500.00 UND

ASHLEY, WILLIAM B. 4502 ASHLEY DRIVE PIERCE-ARROW 10,500.00 DISS

CLAFLIN, WAYNE R. 4575 HIGHLAND PKWY. PIERCE-ARROW 15,000.00 DISS

COLE, CHARLES C. 879 MISSISSIPPI ST. PIERCE-ARROW 12,000.00 DISS

DATE: 1/06/2015 EZ AUTO SALES PAGE 2

TIME: 9:28PM CUSTOMER ADDRESS REPORT

CUSTOMER STREET AUTO PURCHASE

NAME ADDRESS MAKE PRICE SAT.

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

CRAWFORD, TIMOTHY 2122 HOWARD ST. PIERCE-ARROW 12,000.00 DISS

CURRIE, RAYMOND 45 N. ASHLAND AVE. PIERCE-ARROW 11,500.25 SAT

DERBIN, DEANNA 401 TAFT ST. PIERCE-ARROW 14,000.00 SAT

EFFLEY, BAILY 2200 BEATTY ST. PIERCE-ARROW 12,000.00 SAT

ERKLE, ROSA 2850 ROSEMONT ROAD PIERCE-ARROW 13,000.00 SAT

FOREMAN, OTTO J. 999 RIGHTWAY ROAD PIERCE-ARROW 10,500.00 SAT

GUNTHER, FREDERICK 707 JOLIET ROAD PIERCE-ARROW 14,600.00 SAT

HENNING, SONIA 606 MONUMENT CIRCLE PIERCE-ARROW 12,000.00 SAT

KULKA, ROBERT C. 8811 CLOVERLEAF PIERCE-ARROW 12,000.00 SAT

O'BOYLE, NIEL 4002 WHEELING ROAD PIERCE-ARROW 13,000.00 DISS

SANCHEZ, HENRY 8181 CHESTNUT LANE PIERCE-ARROW 9,800.00 SAT

YACKLEY, YOURTO 1185 PINTO STREET PIERCE-ARROW 12,000.00 DISS

ATKINSON, MARK 123 NORTH 109TH ST STUDEBAKER 550.00 UND

AVERY, ALFRED A. 45 W. GRAND BLVD. STUDEBAKER 2,880.00 UND

BUCKO, ONIEDA 4705 AINSWORTH RD. STUDEBAKER 3,500.00 UND

DAVIES, RALPH O. 9809 MORRIS DR. STUDEBAKER 13,000.00 DISS

DONNEHUE, PHILLIP 725 HARRISON AVE. STUDEBAKER 1,080.00 UND

EGGERTON, AMANDA 12123 HIGHWAY 6 STUDEBAKER 6,200.00 UND

EPPLEY, DAVID 659 WISCONSIN ST. STUDEBAKER 4,300.00 UND

HAINES, MARSHALL 1912 MADISON AVE. STUDEBAKER 6,000.00 UND

KURTZ, DONALD 505 HICKEY STREET STUDEBAKER 3,450.00 UND

METZ, ARNOLD E. 1414 VIRGINIA ST. STUDEBAKER 10,000.00 SAT

O'BRIAN, PATRICK 4013 CHESTERFIELD STUDEBAKER 5,000.00 UND

SWARTZ, HECTOR 20021 MARTIN ROAD STUDEBAKER 4,000.00 UND

TOTAL CUSTOMERS LISTED = 73

TOTAL CUSTOMER PURCHASES = $586,702.25

END OF REPORT

CH9EX3B\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IDENTIFICATION DIVISION.

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

PROGRAM-ID. VSEX9-3.

AUTHOR. TYLER SATHER.

INSTALLATION. M STATE.

DATE-WRITTEN. APRIL 25 2020.

DATE-COMPILED.

ENVIRONMENT DIVISION.

INPUT-OUTPUT SECTION.

FILE-CONTROL.

SELECT CUSTOMER-SALES-FILE

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

SELECT SORT-FILE

ASSIGN TO "SORTWORK".

SELECT SORTED-SALES-FILE

ASSIGN TO "C:\Users\sathe\Desktop\Mstate\COBOL\Ch9B\SORTCUST.DAT".

SELECT CUSTOMER-ADDRESS-FILE

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

SELECT REPORT-FILE

ASSIGN TO "C:\Users\sathe\Desktop\Mstate\COBOL\Ch9B\VSEX9-3B.RPT".

DATA DIVISION.

FILE SECTION.

FD CUSTOMER-SALES-FILE.

01 CUSTOMER-SALES-REC PIC X(76).

SD SORT-FILE.

01 SORT-RECORD.

02 PIC X(41).

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

02 PIC X(15).

FD SORTED-SALES-FILE.

01 SORTED-SALES-REC PIC X(76).

FD CUSTOMER-ADDRESS-FILE.

01 CUSTOMER-ADDRESS-RECORD.

02 CAR-NUMBER PIC X(4).

02 CAR-ADDRESS PIC X(20).

FD REPORT-FILE.

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

WORKING-STORAGE SECTION.

01 SWITCHES.

02 SW-END-OF-FILE PIC X.

88 END-OF-FILE VALUE "Y".

01 ACCUMULATORS.

02 AC-LINE-COUNT PIC 999.

02 AC-PAGE-COUNT PIC 999.

02 AC-RECORD-COUNT PIC 9(5).

02 AC-TOTAL-PURCHASES PIC 9(6)V99.

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-ADDRESS PIC X(20).

02 WA-SATISFACTION-RATING PIC X(4).

01 SATISFACTION-DATA.

02 PIC X(5) VALUE "0DISS".

02 PIC X(5) VALUE "1UND".

02 PIC X(5) VALUE "2SAT".

01 SATISFACTION-TABLE REDEFINES SATISFACTION-DATA.

02 ST-ENTRY OCCURS 3 TIMES INDEXED BY ST-INDEX.

03 ST-CODE PIC X.

03 ST-RATING PIC X(4).

01 CUSTOMER-ADDRESS-TABLE.

02 CAT-ENTRY OCCURS 73 TIMES ASCENDING KEY CAT-NUMBER

INDEXED BY ADDR-INDEX.

03 CAT-NUMBER PIC X(4).

03 CAT-ADDRESS PIC X(20).

01 CUSTOMER-SALES-RECORD.

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

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

02 CSR-CUSTOMER-NUMBER PIC 9(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".

01 REPORT-HEADINGS.

02 RH-LINE-1.

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

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

03 PIC X(15) VALUE SPACES.

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

03 PIC X(26) 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 Z9.

03 PIC X VALUE ':'.

03 RH-MINUTES PIC 99.

03 RH-AM-PM PIC XX.

03 PIC X(13) VALUE SPACES.

03 PIC X(23) VALUE "CUSTOMER ADDRESS REPORT".

02 RH-LINE-3.

03 PIC X(8) VALUE "CUSTOMER".

03 PIC X(13) VALUE SPACES.

03 PIC X(6) VALUE "STREET".

03 PIC X(15) VALUE SPACES.

03 PIC X(4) VALUE "AUTO".

03 PIC X(17) VALUE SPACES.

03 PIC X(8) VALUE "PURCHASE".

02 RH-LINE-4.

03 PIC X(4) VALUE "NAME".

03 PIC X(17) VALUE SPACES.

03 PIC X(7) VALUE "ADDRESS".

03 PIC X(14) VALUE SPACES.

03 PIC X(4) VALUE "MAKE".

03 PIC X(17) VALUE SPACES.

03 PIC X(5) VALUE "PRICE".

03 PIC X(6) VALUE SPACES.

03 PIC X(4) VALUE "SAT.".

02 RH-LINE-5.

03 PIC X(20) VALUE ALL '-'.

03 PIC X VALUE SPACES.

03 PIC X(20) VALUE ALL '-'.

03 PIC X VALUE SPACES.

03 PIC X(20) VALUE ALL '-'.

03 PIC X VALUE SPACES.

03 PIC X(9) VALUE ALL '-'.

03 PIC XX VALUE SPACES.

03 PIC X(4) VALUE ALL '-'.

01 DETAIL-LINE.

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

02 PIC X VALUE SPACES.

02 DL-ADDRESS PIC X(20).

02 PIC X VALUE SPACES.

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

02 PIC X VALUE SPACES.

02 DL-PURCHASE-PRICE PIC ZZ,ZZZ.99.

02 PIC XX VALUE SPACES.

02 DL-SATISFACTION-RATING PIC X(4).

01 SUMMARY-LINES.

02 SL-LINE-1.

03 PIC X(21) VALUE SPACES.

03 PIC X(26) VALUE "TOTAL CUSTOMERS LISTED =".

03 PIC X(9) VALUE SPACES.

03 SL-RECORD-COUNT PIC ZZ9.

02 SL-LINE-2.

03 PIC X(21) VALUE SPACES.

03 PIC X(26) VALUE "TOTAL CUSTOMER PURCHASES =".

03 PIC X VALUE SPACES.

03 SL-TOTAL-PURCHASES PIC $ZZZ,ZZ9.99.

02 SL-LINE-3.

03 PIC X(33) VALUE SPACES.

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

PROCEDURE DIVISION.

MAIN-PROGRAM.

PERFORM A-100-INITIALIZATION.

PERFORM B-100-LOAD-ADDRESS-TABLE.

PERFORM C-100-PROCESS-FILE.

PERFORM D-100-WRAP-UP.

STOP RUN.

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.

SORT SORT-FILE

ON ASCENDING KEY SR-AUTO-MAKE

USING CUSTOMER-SALES-FILE

GIVING SORTED-SALES-FILE.

B-100-LOAD-ADDRESS-TABLE.

OPEN INPUT CUSTOMER-ADDRESS-FILE.

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

READ CUSTOMER-ADDRESS-FILE

AT END

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

PERFORM B-200-LOAD VARYING ADDR-INDEX

FROM 1 BY 1

UNTIL END-OF-FILE OR ADDR-INDEX > 73.

CLOSE CUSTOMER-ADDRESS-FILE.

B-200-LOAD.

MOVE CAR-NUMBER TO CAT-NUMBER(ADDR-INDEX).

MOVE CAR-ADDRESS TO CAT-ADDRESS(ADDR-INDEX).

READ CUSTOMER-ADDRESS-FILE

AT END

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

C-100-PROCESS-FILE.

OPEN INPUT SORTED-SALES-FILE

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

READ SORTED-SALES-FILE INTO CUSTOMER-SALES-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.

WRITE REPORT-LINE-OUT FROM SL-LINE-1 AFTER ADVANCING 2 LINES.

WRITE REPORT-LINE-OUT FROM SL-LINE-2 AFTER ADVANCING 1 LINE.

WRITE REPORT-LINE-OUT FROM SL-LINE-3 AFTER ADVANCING 2 LINES.

CLOSE SORTED-SALES-FILE.

C-200-PROCESS-RECORD.

IF AC-LINE-COUNT = 0

PERFORM C-300-WRITE-HEADINGS.

SEARCH ALL CAT-ENTRY

AT END

MOVE "NOT FOUND" TO WA-ADDRESS

WHEN CAT-NUMBER(ADDR-INDEX) = CSR-CUSTOMER-NUMBER

MOVE CAT-ADDRESS(ADDR-INDEX) TO WA-ADDRESS.

SET ST-INDEX TO 1.

SEARCH ST-ENTRY

AT END

MOVE "NOT FOUND" TO WA-SATISFACTION-RATING

WHEN ST-CODE(ST-INDEX) = CSR-SATISFACTION-CODE

MOVE ST-RATING(ST-INDEX) TO WA-SATISFACTION-RATING.

MOVE CSR-CUSTOMER-NAME TO DL-CUSTOMER-NAME.

MOVE WA-ADDRESS TO DL-ADDRESS.

MOVE CSR-AUTO-MAKE TO DL-AUTO-MAKE.

MOVE CSR-PURCHASE-PRICE TO DL-PURCHASE-PRICE.

MOVE WA-SATISFACTION-RATING TO DL-SATISFACTION-RATING.

WRITE REPORT-LINE-OUT FROM DETAIL-LINE AFTER ADVANCING 1 LINE.

ADD 1 TO AC-LINE-COUNT.

ADD 1 TO AC-RECORD-COUNT.

ADD CSR-PURCHASE-PRICE TO AC-TOTAL-PURCHASES.

IF AC-LINE-COUNT > 55

PERFORM C-300-WRITE-HEADINGS.

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

AT END

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

C-300-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-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 7 TO AC-LINE-COUNT.

D-100-WRAP-UP.

CLOSE REPORT-FILE.

DISPLAY "CUSTOMER ADDRESS REPORT PROGRAM HAS TERMINATED".