DATE: 2/29/2020 EZ AUTO SALES PAGE 1

TIME: 9:15 PM SATISFIED CUSTOMER REPORT

TYLER SATHER

CUSTOMER CUSTOMER PURCHASE PURCHASE SATISFACTION

NUMBER NAME DATE PRICE RATING

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

1001 ALBERT, CARL T. 8/25/2001 $2,550.00 SATISFIED

1010 ASHLEY, WILLIAM B. 9/02/2001 $12,400.00 SATISFIED

1015 ATKINSON, MARK 8/27/2001 $500.00 UNDECIDED

1025 AVERY, ALFRED A. 8/29/2001 $2,300.00 UNDECIDED

1031 BEZZMEK, JENNIFER 8/27/2001 $4,550.00 SATISFIED

1033 BLAKE, DONALD 8/29/2001 $7,220.50 UNDECIDED

1041 BLONDELL, BONNIE 9/04/2001 $3,560.50 UNDECIDED

1045 BONADIO, JAMES 9/03/2001 $11,500.00 SATISFIED

1055 BUCKO, ONIEDA 8/28/2001 $2,450.00 UNDECIDED

1056 BYMANN, FREDRICK 8/29/2001 $3,300.00 UNDECIDED

1061 CALBERT, RONALD 9/05/2001 $3,550.00 SATISFIED

1067 CLAFLIN, WAYNE R. 9/01/2001 $4,560.50 SATISFIED

1070 COLE, CHARLES C. 9/02/2001 $10,500.00 SATISFIED

1075 COLEMAN, THOMAS 8/27/2001 $1,670.50 UNDECIDED

1076 COLWELL, RICHARD L. 8/29/2001 $4,300.00 UNDECIDED

1080 COOPER, JOHNATHAN 9/05/2001 $12,560.00 SATISFIED

2011 CRAWFORD, TIMOTHY 9/01/2001 $10,400.00 SATISFIED

2012 CURRIE, RAYMOND 8/28/2001 $1,500.25 UNDECIDED

2024 CYBORG, IZORE M. 9/05/2001 $1,300.00 UNDECIDED

2031 DALTON, DAVID P. 8/25/2001 $2,340.00 SATISFIED

2050 DERBIN, DEANNA 9/02/2001 $16,400.25 SATISFIED

2065 DONNEHUE, PHILLIP 9/04/2001 $540.00 UNDECIDED

2085 DOPPLER, RADAR O. 8/30/2001 $3,110.00 UNDECIDED

2091 DUNLOP, RITA 8/25/2001 $14,500.45 SATISFIED

3003 DYKES, CYNTHIA 8/26/2001 $4,100.50 UNDECIDED DATE: 2/29/2020 EZ AUTO SALES PAGE 2

TIME: 9:15 PM SATISFIED CUSTOMER REPORT

TYLER SATHER

CUSTOMER CUSTOMER PURCHASE PURCHASE SATISFACTION

NUMBER NAME DATE PRICE RATING

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3015 EFFLEY, BAILY 9/02/2001 $14,460.45 SATISFIED

3025 EGGERTON, AMANDA 8/29/2001 $3,350.00 UNDECIDED

3026 EPPLEY, DAVID 8/28/2001 $4,140.00 UNDECIDED

3031 ERKLE, ROSA 9/03/2001 $3,550.20 SATISFIED

3050 FOREMAN, OTTO J. 9/02/2001 $9,400.00 SATISFIED

3055 FOWLER, KATHLEEN 8/27/2001 $2,670.50 UNDECIDED

3056 FURNACE, DAVID 8/29/2001 $5,300.00 UNDECIDED

3061 GALLAGHER, CLARENCE 9/04/2001 $10,060.00 SATISFIED

3072 GUNTHER, FREDERICK 9/03/2001 $12,600.00 SATISFIED

3080 HAINES, MARSHALL 8/29/2001 $2,500.25 UNDECIDED

3094 HANCOCK, JONATHON 9/03/2001 $3,300.00 UNDECIDED

4005 HENNING, SONIA 9/05/2001 $13,050.00 SATISFIED

4009 HORNSBY, ROGERS 8/25/2001 $1,675.00 UNDECIDED

4012 HYATT, JANET F. 8/30/2001 $1,550.00 UNDECIDED

4021 IDZIOR, RAYMOND 9/01/2001 $14,600.00 SATISFIED

4022 JENNINGS, WILLIAM 8/26/2001 $6,120.40 UNDECIDED

4032 KULKA, ROBERT C. 9/04/2001 $9,700.00 SATISFIED

4035 KURTZ, DONALD 8/30/2001 $3,450.00 UNDECIDED

4038 LEVANDOWSKI, JILL 8/28/2001 $4,300.00 UNDECIDED

4044 METZ, ARNOLD E. 9/01/2001 $13,230.00 SATISFIED

4047 NOWAKOWSKI, ALFRED 9/01/2001 $6,560.50 UNDECIDED

4053 O'BOYLE, NIEL 9/03/2001 $15,500.00 SATISFIED

4056 O'BRIAN, PATRICK 8/30/2001 $3,470.50 UNDECIDED

4059 PATTERSON, LENNI R. 8/29/2001 $2,500.00 UNDECIDED

4061 PERRY, SHAMUS 9/05/2001 $8,950.00 SATISFIED

DATE: 2/29/2020 EZ AUTO SALES PAGE 3

TIME: 9:15 PM SATISFIED CUSTOMER REPORT

TYLER SATHER

CUSTOMER CUSTOMER PURCHASE PURCHASE SATISFACTION

NUMBER NAME DATE PRICE RATING

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4073 SANCHEZ, HENRY 9/01/2001 $8,300.00 SATISFIED

4081 SWARTZ, HECTOR 8/28/2001 $750.25 UNDECIDED

4084 TORREZ, MARTIN 8/27/2001 $5,650.00 SATISFIED

4090 TUTTLE, MARK 8/29/2001 $7,100.50 UNDECIDED

4115 YACKLEY, YOURTO 9/04/2001 $10,000.00 SATISFIED

SATISFIED CUSTOMERS LISTED = 26

TOTAL PURCHASES = 254,861.85

AVERAGE PURCHASES = 9,802.37

UNDECIDED CUSTOMERS LISTED = 29

TOTAL PURCHASES = 94,590.15

AVERAGE PURCHASES = 3,261.72

TOTAL CUSTOMERS LISTED = 55

TOTAL PURCHASES = 349,452.00

AVERAGE PURCHASES = 6,353.67

IDENTIFICATION DIVISION.

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

PROGRAM-ID. EX5-3Revised.

AUTHOR. Tyler Sather.

INSTALLATION. M STATE.

DATE-WRITTEN. JANUARY 6, 2015.

DATE-COMPILED.

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

\* PROGRAM NARRATIVE \*

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\* \*

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

\* FOR EZ AUTO SALES AND CREATES A SATISFIED CUSTOMER REPORT. \*

\* FOR EACH SATISFIED CUSTOMER THE CUSTOMER NUMBER, NAME, \*

\* PURCHASE DATE PRUCHASE PRICE, AND SATISFACTION RATING ARE \*

\* PRINTED. A RECORD COUNT, TOTAL AMOUNT FOR PURCHASES, AND \*

\* AVERAGE PURCHASE PRICE IS PRINTED AT THE END OF THE REPORT. \*

\* \*

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

\* \*

\* OUTPUT: VSEX5-3.RPT - SATISFIED CUSTOMER REPORT \*

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ENVIRONMENT DIVISION.

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

INPUT-OUTPUT SECTION.

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

FILE-CONTROL.

SELECT CUSTOMER-SALES-FILE

ASSIGN TO

"C:\Users\PC\Desktop\Mstate\COBOL\Data\CUSTSALE.DAT".

SELECT SATISFIED-CUSTOMER-REPORT

ASSIGN TO

"C:\Users\PC\Desktop\Mstate\COBOL\Ex5-3\EX5-3Revised.RPT".

/

DATA DIVISION.

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

FILE SECTION.

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\* \*

\* INPUT-FILE - CUSTOMER SALES FILE \*

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FD CUSTOMER-SALES-FILE.

01 CUSTOMER-RECORD PIC X(76).

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\* \*

\* REPORT-FILE - SATISFIED CUSTOMER REPORT \*

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FD SATISFIED-CUSTOMER-REPORT.

01 SATISFIED-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 9(5).

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

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

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

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

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

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\* \*

\* CUSTOMER SALES RECORD \*

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01 CUSTOMER-SALES-RECORD.

02 PIC X(9).

02 SR-CUSTOMER-NUMBER PIC 9(4).

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

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

02 PIC X(20).

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

02 PIC X(7).

02 SR-SATISFACTION-CODE PIC X.

88 DISSATISFIED VALUE "0".

88 UNDECIDED VALUE "1".

88 SATISFIED VALUE "2".

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\* \*

\* REPORT HEADINGS FOR THE SATISFIED CUSTOMER REPORT \*

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01 REPORT-HEADINGS.

02 RH-LINE-1.

03 PIC X(7) VALUE SPACES.

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

03 RH-DATE PIC Z9/99/9999.

03 PIC X(15) VALUE SPACES.

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

03 PIC X(17) VALUE SPACES.

03 PIC X(5) VALUE "PAGE ".

03 RH-PAGE-COUNT PIC ZZ9.

02 RH-LINE-2.

03 PIC X(7) VALUE SPACES.

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

03 RH-HOUR PIC Z9.

03 PIC X VALUE ":".

03 RH-MINUTES PIC 99.

03 PIC X VALUE SPACE.

03 RH-AM-PM PIC XX.

03 PIC X(12) VALUE SPACES.

03 PIC X(25) VALUE "SATISFIED CUSTOMER REPORT".

02 RH-LINE-2A.

03 PIC X(7) VALUE SPACES.

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

02 RH-LINE-3.

03 PIC X(7) VALUE SPACES.

03 PIC X(8) VALUE "CUSTOMER".

03 PIC XXX VALUE SPACES.

03 PIC X(8) VALUE "CUSTOMER".

03 PIC X(14) VALUE SPACES.

03 PIC X(8) VALUE "PURCHASE".

03 PIC X(4) VALUE SPACES.

03 PIC X(8) VALUE "PURCHASE".

03 PIC XXXX VALUE SPACES.

03 PIC X(12) VALUE "SATISFACTION".

/

02 RH-LINE-4.

03 PIC X(7) VALUE SPACES.

03 PIC X(6) VALUE "NUMBER".

03 PIC X(5) VALUE SPACES.

03 PIC X(4) VALUE "NAME".

03 PIC X(18) VALUE SPACES.

03 PIC X(4) VALUE "DATE".

03 PIC X(8) VALUE SPACES.

03 PIC X(5) VALUE "PRICE".

03 PIC X(7) VALUE SPACES.

03 PIC X(6) VALUE "RATING".

02 RH-LINE-5.

03 PIC X(7) VALUE SPACES.

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

03 PIC XX VALUE SPACES.

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

03 PIC XX VALUE SPACES.

03 PIC X(10) VALUE ALL "-".

03 PIC XX VALUE SPACES.

03 PIC X(10) VALUE ALL "-".

03 PIC XX VALUE SPACES.

03 PIC X(12) VALUE ALL "-".

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\* \*

\* DETAIL LINE FOR THE SATISFIED CUSTOMER REPORT \*

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01 DETAIL-LINE.

02 PIC X(9) VALUE SPACES.

02 DL-CUSTOMER-NUMBER PIC ZZZ9.

02 PIC X(5) VALUE SPACES.

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

02 PIC XX VALUE SPACES.

02 DL-PURCHASE-DATE PIC Z9/99/9999.

02 PIC XX VALUE SPACES.

02 DL-PURCHASE-PRICE PIC $$$,$$$.99.

02 PIC XX VALUE SPACES.

02 DL-SATISFACTION-RATING PIC X(12).

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\* \*

\* SUMMARY LINES FOR THE SATISFED CUSTOMER REPORT \*

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01 SUMMARY-LINES.

02 SL-LINE-1.

03 PIC X(25) VALUE SPACES.

03 PIC X(36) VALUE "SATISFIED CUSTOMERS LISTED = ".

03 SL-SATISFIED-COUNT PIC ZZ9.

02 SL-LINE-2.

03 PIC X(30) VALUE SPACES.

03 PIC X(24) VALUE "TOTAL PURCHASES = ".

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

02 SL-LINE-3.

03 PIC X(30) VALUE SPACES.

03 PIC X(24) VALUE "AVERAGE PURCHASES = ".

03 SL-SATISFIED-AVERAGE-PURCHASE PIC ZZZ,ZZ9.99.

02 SL-LINE-4.

03 PIC X(25) VALUE SPACES.

03 PIC X(36) VALUE "UNDECIDED CUSTOMERS LISTED = ".

03 SL-UNDECIDED-COUNT PIC ZZ9.

02 SL-LINE-5.

03 PIC X(30) VALUE SPACES.

03 PIC X(24) VALUE "TOTAL PURCHASES = ".

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

02 SL-LINE-6.

03 PIC X(30) VALUE SPACES.

03 PIC X(24) VALUE "AVERAGE PURCHASES = ".

03 SL-UNDECIDED-AVERAGE-PURCHASE PIC ZZZ,ZZ9.99.

02 SL-LINE-7.

03 PIC X(25) VALUE SPACES.

03 PIC X(36) VALUE "TOTAL CUSTOMERS LISTED = ".

03 SL-RECORD-COUNT PIC ZZ9.

02 SL-LINE-8.

03 PIC X(30) VALUE SPACES.

03 PIC X(24) VALUE "TOTAL PURCHASES = ".

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

02 SL-LINE-9.

03 PIC X(30) VALUE SPACES.

03 PIC X(24) VALUE "AVERAGE PURCHASES = ".

03 SL-AVERAGE-PURCHASE PIC ZZZ,ZZ9.99.

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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-PROCESS-FILE.

PERFORM C-100-WRAP-UP.

STOP RUN.

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\* THE INITIALIZATION PARAGRAPH FOLLOWS \*

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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 RH-DATE.

EVALUATE TRUE

WHEN WA-TODAYS-HOUR = 00

MOVE "AM" TO RH-AM-PM

MOVE 12 TO WA-TODAYS-HOUR

WHEN WA-TODAYS-HOUR < 12

MOVE "AM" TO RH-AM-PM

WHEN WA-TODAYS-HOUR = 12

MOVE "PM" TO RH-AM-PM

WHEN WA-TODAYS-HOUR > 12

MOVE "PM" TO RH-AM-PM

SUBTRACT 12 FROM WA-TODAYS-HOUR.

MOVE WA-TODAYS-HOUR TO RH-HOUR.

MOVE WA-TODAYS-MINUTES TO RH-MINUTES.

OPEN INPUT CUSTOMER-SALES-FILE

OUTPUT SATISFIED-CUSTOMER-REPORT.

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\* FILE PROCESSING CONTROL PARAGRAPH \*

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B-100-PROCESS-FILE.

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

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

AT END

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

PERFORM B-200-PROCESS-RECORD THRU B-200-EXIT

UNTIL END-OF-FILE.

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

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

DIVIDE AC-TOTAL-PURCHASES BY AC-RECORD-COUNT

GIVING SL-AVERAGE-PURCHASE.

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

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

DIVIDE AC-SATISFIED-TOTAL-PURCHASES BY AC-SATISFIED-RECORD-COUNT

GIVING SL-SATISFIED-AVERAGE-PURCHASE.

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

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

DIVIDE AC-UNDECIDED-TOTAL-PURCHASES BY AC-UNDECIDED-RECORD-COUNT

GIVING SL-UNDECIDED-AVERAGE-PURCHASE.

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\* \*

\* MOVE INPUT FIELDS TO OUTPUT AREAS AND PRINT \*

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B-200-PROCESS-RECORD.

IF AC-LINE-COUNT = 0

PERFORM B-300-PRINT-HEADINGS.

IF DISSATISFIED

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

AT END

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

END-READ

GO TO B-200-EXIT.

MOVE SR-CUSTOMER-NUMBER TO DL-CUSTOMER-NUMBER.

MOVE SR-CUSTOMER-NAME TO DL-CUSTOMER-NAME.

MOVE SR-PURCHASE-DATE TO DL-PURCHASE-DATE.

MOVE SR-PURCHASE-PRICE TO DL-PURCHASE-PRICE.

IF UNDECIDED

MOVE "UNDECIDED" TO DL-SATISFACTION-RATING.

IF SATISFIED

MOVE "SATISFIED" TO DL-SATISFACTION-RATING.

ADD SR-PURCHASE-PRICE TO AC-TOTAL-PURCHASES

ON SIZE ERROR

DISPLAY "ACCUMULATOR TOO SMALL".

WRITE SATISFIED-LINE-OUT FROM DETAIL-LINE

AFTER ADVANCING 2 LINES.

ADD 2 TO AC-LINE-COUNT.

ADD 1 TO AC-RECORD-COUNT.

IF SATISFIED

ADD SR-PURCHASE-PRICE TO AC-SATISFIED-TOTAL-PURCHASES

ON SIZE ERROR

DISPLAY "ACCUMULATOR TOO SMALL".

IF SATISFIED

ADD 1 TO AC-SATISFIED-RECORD-COUNT.

IF UNDECIDED

ADD SR-PURCHASE-PRICE TO AC-UNDECIDED-TOTAL-PURCHASES

ON SIZE ERROR

DISPLAY "ACCUMULATOR TOO SMALL".

IF UNDECIDED

ADD 1 TO AC-UNDECIDED-RECORD-COUNT.

IF AC-LINE-COUNT > 55

MOVE ZERO TO AC-LINE-COUNT.

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

AT END

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

B-200-EXIT.

EXIT.

/

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\* \*

\* HEADER PARAGRAPH \*

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B-300-PRINT-HEADINGS.

ADD 1 TO AC-PAGE-COUNT.

MOVE AC-PAGE-COUNT TO RH-PAGE-COUNT.

WRITE SATISFIED-LINE-OUT FROM RH-LINE-1

AFTER ADVANCING PAGE.

WRITE SATISFIED-LINE-OUT FROM RH-LINE-2

AFTER ADVANCING 1 LINE.

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

AFTER ADVANCING 1 LINE.

WRITE SATISFIED-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 1 LINE.

WRITE SATISFIED-LINE-OUT FROM RH-LINE-4

AFTER ADVANCING 1 LINE.

WRITE SATISFIED-LINE-OUT FROM RH-LINE-5

AFTER ADVANCING 1 LINE.

MOVE 6 TO AC-LINE-COUNT.

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\* \*

\* END OF JOB PARAGRAPH \*

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C-100-WRAP-UP.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-1

AFTER ADVANCING 4 LINES.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-2

AFTER ADVANCING 1 LINE.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-3

AFTER ADVANCING 1 LINE.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-4

AFTER ADVANCING 2 LINES.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-5

AFTER ADVANCING 1 LINE.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-6

AFTER ADVANCING 1 LINE.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-7

AFTER ADVANCING 2 LINES.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-8

AFTER ADVANCING 1 LINE.

WRITE SATISFIED-LINE-OUT FROM SL-LINE-9

AFTER ADVANCING 1 LINE.

CLOSE CUSTOMER-SALES-FILE

SATISFIED-CUSTOMER-REPORT.

DISPLAY "THE SATISFIED CUSTOMER REPORT PROGRAM HAS ENDED".

/