DATE: 3/01/2020 ABC DEPARTMENT STORE PAGE 1

TIME: 11:53 AM CUSTOMER PURCHASES ANALYSIS REPORT

TYLER SATHER

ACCOUNT MINIMUM

NUMBER CUSTOMER NAME BALANCE PURCHASES PAYMENT

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

100101 ALBERT, PETER A. $120.21 $330.89 21.63

100103 ALLENSON, SHEILA M. $238.68 $874.30 42.96

100105 ANDERSON, ALENE T. $137.83 $535.90 24.80

100107 BILLINGS, BARBARA $38.50 $174.50 6.93

100113 CHAPMAN, CHARLES M. $140.00 $160.00 25.20

100125 CLAFFLIN, WALTER E. $125.00 $230.85 22.50

100127 COMPANA, ESTER $115.50 $100.00 20.79

100153 CRAIG, BOBO B. $10.00 $24.30 1.80

100166 DOGGINS, CARL $90.00 $150.00 16.20

100169 DOWNING, M. JR. $155.50 $395.50 27.99

100193 ERIKSON, LEAF E. $9.40 $9.40 1.69

100225 FREELAND, ROBERT A. $100.00 $387.90 18.00

100247 FRONT, EDDIE $80.50 $114.50 14.49

100301 GARCIA, JOSE I. $40.00 $67.00 7.20

100313 HATFIELD, BRADLEY $45.00 $84.50 8.10

100345 HELLER, HELEN H. $47.60 $85.90 8.56

100360 ISLANDER, JENNEY $200.00 $240.00 36.00

100383 LADA, LAWRENCE $9.50 $9.50 1.71

100385 LADD, WALTER $102.20 $145.20 18.39

100397 LAMB, FREDRICK E. $91.50 $111.50 16.47

100453 LOFTIS, DOUGLAS L. $110.00 $190.00 19.80

100461 MILLER, SUSAN S. $78.80 $104.50 14.18

100469 MUDGLEY, BRENDA $125.50 $210.00 22.59

100480 NICKELS, KATHY $50.00 $120.60 9.00

100535 PATTERSON, PATRICK $40.00 $140.00 7.20DATE: 3/01/2020 ABC DEPARTMENT STORE PAGE 2

TIME: 11:53 AM CUSTOMER PURCHASES ANALYSIS REPORT

TYLER SATHER

ACCOUNT MINIMUM

NUMBER CUSTOMER NAME BALANCE PURCHASES PAYMENT

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

100547 PETERSON, ROBERT A. $92.25 $92.50 16.60

100551 POTTER, WINFRED I. $10.25 $30.25 1.84

100563 PUCKETT, CHARLIE M. $238.68 $874.30 42.96

100605 PYLE, G. ALFRED $100.50 $305.00 18.09

100617 RASKIN, RUTH ANN $9.50 $124.00 1.71

100710 RAYMOND, RONALD $230.00 $230.00 41.40

100713 REYNOLDS, LARRY $235.00 $350.00 42.30

100735 RICHMOND, RICHARD $100.00 $260.95 18.00

100787 ROAMES, RICHARD $95.50 $955.00 17.19

100811 SANDERSON, PAULETTE $5.00 $6.02 0.90

100843 SINGER, ALEXIS E. $15.00 $4.30 2.70

100886 SUMMERS, SUSAN $75.50 $90.50 13.59

100909 SWEET, VIRGIL $100.50 $255.50 18.09

100993 TANDY, SANDI $10.45 $12.45 1.88

200025 TERRY, LARRY M. $530.00 $650.00 95.40

200047 THOMPSON, RODNEY $180.00 $234.60 32.40

200111 TONEY, ANTHONY A. $120.00 $130.00 21.60

200123 TOYOTA, SEMINEW $105.00 $140.50 18.90

200245 TYLANDI, SHONI $450.00 $65.00 81.00

200357 UPLAND, JILL O. $95.00 $131.50 17.10

200360 UZUBELL, RINGA $110.00 $160.00 19.80

200383 VANBUREN, WINSTON $3.50 $4.50 0.63

200485 VANWINKLE, RALPH $312.50 $395.50 56.25

200557 VONRYAN, ERICK $140.50 $172.50 25.29

200646 VYLASTIC, JAYLAND $20.00 $30.95 3.60DATE: 3/01/2020 ABC DEPARTMENT STORE PAGE 3

TIME: 11:53 AM CUSTOMER PURCHASES ANALYSIS REPORT

TYLER SATHER

ACCOUNT MINIMUM

NUMBER CUSTOMER NAME BALANCE PURCHASES PAYMENT

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

200753 WALLACE, MICHAEL $220.00 $380.00 39.60

200871 WALTON, JOHN B. $160.80 $154.50 28.94

300069 WILLIAMS, RONDA $225.00 $310.00 40.50

300281 WYMAN, JANE $250.00 $320.00 45.00

300333 YULANE, WANDA $60.00 $14.40 10.80

300415 ZIPPO, ARTHUR $70.00 $120.00 12.60

300444 ZOONEY, WILLIAM $450.00 $30.00 81.00

RECORDS PROCESSED = 63

RECORDS LISTED = 57

TOTAL BALANCE = 7,121.65

AVERAGE BALANCE = 124.94

TOTAL PURCHASES = 12,031.46

AVERAGE PURCHASES = 211.07

TOTAL MIN PAYMENT = 1,281.84

AVERAGE MIN PAYMENT = 22.48

END OF REPORT

\*\*\*\*\*\*\*\*\*\*\*\*\*Main Program

IDENTIFICATION DIVISION.

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

PROGRAM-ID. EX5-2.

AUTHOR. Tyler Sather.

INSTALLATION. M STATE.

DATE-WRITTEN. MARCH 1, 2020.

DATE-COMPILED.

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

\* PROGRAM NARRATIVE \*

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\* \*

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

\* FOR ABC DEPARTMENT STORE AND CREATES A CUSTOMER ANALYSIS \*

\* REPORT FOR EVERY CUSTOMER WITH A BALANCE ABOVE ZERO IT \*

\* WILL DISPLAY ACCOUNT NUMBER, CUSTOMER NAME, BALANANCE, \*

\* AND WILL CALCULATE A MIN PAYMENT A 18% OF THE BALANCE. \*

\* WILL THE DISPLAY THE TOTALS AND AVERAGES OF BALANCE, \*

\* PURCHASES, AND MINIMUM PAYMENT \*

\* \*

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

\* \*

\* OUTPUT: EX5.2.RPT -CUSTOMER PURCHASE ANALYSIS REPORT \*

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

ENVIRONMENT DIVISION.

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

INPUT-OUTPUT SECTION.

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

FILE-CONTROL.

SELECT CUSTOMER-SALES-FILE

ASSIGN TO

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

SELECT CUSTOMER-PURCHASE-ANALYSIS

ASSIGN TO

"C:\Users\PC\Desktop\Mstate\COBOL\Ex5.2\EX5-2.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(74).

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\* REPORT-FILE - SATISFIED CUSTOMER REPORT \*

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FD CUSTOMER-PURCHASE-ANALYSIS.

01 PURCHASE-LINE-OUT PIC X(63).

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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-PROCESS-COUNT PIC 9(5).

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

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

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

02 AC-MIN-PAYMENT 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).

02 WA-PERCENT PIC 9V99.

02 WA-MINIMUM-PAYMENT PIC 9(6)V99.

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\* \*

\* CUSTOMER SALES RECORD \*

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01 CUSTOMER-SALES-RECORD.

02 PIC X(8).

02 SR-ACCOUNT-NUMBER PIC 9(6).

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

02 PIC X(21).

02 SR-BALANCE PIC S9(4)V99.

02 SR-PURCHASE PIC 9(4)V99.

02 SR-CREDIT-LIMIT PIC 9(5).

02 PIC XX.

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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(6) VALUE "DATE: ".

03 RH-DATE PIC Z9/99/9999.

03 PIC X(9) VALUE SPACES.

03 PIC X(20) VALUE "ABC DEPARTMENT STORE".

03 PIC X(10) VALUE SPACES.

03 PIC X(5) VALUE "PAGE ".

03 RH-PAGE-COUNT 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 PIC X VALUE SPACE.

03 RH-AM-PM PIC XX.

03 PIC X(4) VALUE SPACES.

03 PIC X(34) VALUE "CUSTOMER PURCHASES ANALYSIS REPORT".

02 RH-LINE-2A.

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

02 RH-LINE-3.

03 PIC X(7) VALUE "ACCOUNT".

03 PIC X(49) VALUE SPACES.

03 PIC X(7) VALUE "MINIMUM".

02 RH-LINE-4.

03 PIC X(6) VALUE "NUMBER".

03 PIC XXX VALUE SPACES.

03 PIC X(13) VALUE "CUSTOMER NAME".

03 PIC X(10) VALUE SPACES.

03 PIC X(7) VALUE "BALANCE".

03 PIC X(5) VALUE SPACES.

03 PIC X(9) VALUE "PURCHASES".

03 PIC X(3) VALUE SPACES.

03 PIC X(7) VALUE "PAYMENT".

02 RH-LINE-5.

03 PIC X(7) VALUE ALL "-".

03 PIC XX VALUE SPACES.

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

03 PIC XXX VALUE SPACES.

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

03 PIC XXX VALUE SPACES.

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

03 PIC XX VALUE SPACES.

03 PIC X(8) VALUE ALL "-".

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\* \*

\* DETAIL LINE FOR THE SATISFIED CUSTOMER REPORT \*

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01 DETAIL-LINE.

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

02 PIC X(3) VALUE SPACES.

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

02 PIC XXX VALUE SPACES.

02 DL-BALANCE PIC $$,$$$.99.

02 PIC XX VALUE SPACES.

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

02 PIC XX VALUE SPACES.

02 DL-MINIMUM-PAYMENT PIC Z,ZZ9.99.

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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(18) VALUE SPACES.

03 PIC X(27) VALUE "RECORDS PROCESSED = ".

03 SL-PROCESSED-COUNT PIC ZZ9.

02 SL-LINE-2.

03 PIC X(18) VALUE SPACES.

03 PIC X(27) VALUE "RECORDS LISTED = ".

03 SL-RECORD-COUNT PIC ZZ9.

02 SL-LINE-3.

03 PIC X(18) VALUE SPACES.

03 PIC X(21) VALUE "TOTAL BALANCE = ".

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

02 SL-LINE-4.

03 PIC X(18) VALUE SPACES.

03 PIC X(21) VALUE "AVERAGE BALANCE = ".

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

02 SL-LINE-5.

03 PIC X(18) VALUE SPACES.

03 PIC X(21) VALUE "TOTAL PURCHASES = ".

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

02 SL-LINE-6.

03 PIC X(18) VALUE SPACES.

03 PIC X(21) VALUE "AVERAGE PURCHASES = ".

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

02 SL-LINE-7.

03 PIC X(18) VALUE SPACES.

03 PIC X(21) VALUE "TOTAL MIN PAYMENT = ".

03 SL-TOTAL-MIN-PAY PIC ZZZ,ZZ9.99.

02 SL-LINE-8.

03 PIC X(18) VALUE SPACES.

03 PIC X(21) VALUE "AVERAGE MIN PAYMENT = ".

03 SL-AVERAGE-MIN-PAY PIC ZZZ,ZZ9.99.

02 SL-LINE-9.

03 PIC X(26) 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-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 CUSTOMER-PURCHASE-ANALYSIS.

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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-COUNT TO SL-PROCESSED-COUNT.

MOVE AC-TOTAL-BALANCE TO SL-TOTAL-BALANCE.

DIVIDE AC-TOTAL-BALANCE BY AC-RECORD-COUNT

GIVING SL-AVERAGE-BALANCE.

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

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

GIVING SL-AVERAGE-PURCHASE.

MOVE AC-MIN-PAYMENT TO SL-TOTAL-MIN-PAY.

DIVIDE AC-MIN-PAYMENT BY AC-RECORD-COUNT

GIVING SL-AVERAGE-MIN-PAY.

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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 SR-BALANCE = 0

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

AT END

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

END-READ

ADD 1 TO AC-PROCESS-COUNT

GO TO B-200-EXIT.

MOVE SR-ACCOUNT-NUMBER TO DL-ACCOUNT-NUMBER.

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

MOVE SR-BALANCE TO DL-BALANCE.

MOVE SR-PURCHASE TO DL-PURCHASE.

ADD AC-RECORD-COUNT TO AC-PROCESS-COUNT

GIVING AC-TOTAL-COUNT.

ADD SR-BALANCE TO AC-TOTAL-BALANCE

ON SIZE ERROR

DISPLAY "ACCUMULATOR TOO SMALL".

ADD SR-PURCHASE TO AC-TOTAL-PURCHASES

ON SIZE ERROR

DISPLAY "ACCUMULATOR TOO SMALL".

COMPUTE WA-PERCENT = 0.18.

MULTIPLY SR-BALANCE BY WA-PERCENT

GIVING WA-MINIMUM-PAYMENT.

MOVE WA-MINIMUM-PAYMENT TO DL-MINIMUM-PAYMENT.

ADD WA-MINIMUM-PAYMENT TO AC-MIN-PAYMENT

ON SIZE ERROR

DISPLAY "ACCUMULATOR TOO SMALL".

MOVE AC-MIN-PAYMENT TO SL-TOTAL-MIN-PAY.

DIVIDE AC-MIN-PAYMENT BY AC-RECORD-COUNT

GIVING SL-AVERAGE-MIN-PAY.

WRITE PURCHASE-LINE-OUT FROM DETAIL-LINE

AFTER ADVANCING 2 LINES.

ADD 2 TO AC-LINE-COUNT.

ADD 1 TO AC-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 PURCHASE-LINE-OUT FROM RH-LINE-1

AFTER ADVANCING PAGE.

WRITE PURCHASE-LINE-OUT FROM RH-LINE-2

AFTER ADVANCING 1 LINE.

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

AFTER ADVANCING 1 LINE.

WRITE PURCHASE-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 1 LINE.

WRITE PURCHASE-LINE-OUT FROM RH-LINE-4

AFTER ADVANCING 1 LINE.

WRITE PURCHASE-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 PURCHASE-LINE-OUT FROM SL-LINE-1

AFTER ADVANCING 2 LINES.

WRITE PURCHASE-LINE-OUT FROM SL-LINE-2

AFTER ADVANCING 1 LINE.

WRITE PURCHASE-LINE-OUT FROM SL-LINE-3

AFTER ADVANCING 2 LINE.

WRITE PURCHASE-LINE-OUT FROM SL-LINE-4

AFTER ADVANCING 1 LINES.

WRITE PURCHASE-LINE-OUT FROM SL-LINE-5

AFTER ADVANCING 2 LINE.

WRITE PURCHASE-LINE-OUT FROM SL-LINE-6

AFTER ADVANCING 1 LINE.

WRITE PURCHASE-LINE-OUT FROM SL-LINE-7

AFTER ADVANCING 2 LINES.

WRITE PURCHASE-LINE-OUT FROM SL-LINE-8

AFTER ADVANCING 1 LINE.

WRITE PURCHASE-LINE-OUT FROM SL-LINE-9

AFTER ADVANCING 2 LINE.

CLOSE CUSTOMER-SALES-FILE

CUSTOMER-PURCHASE-ANALYSIS.

DISPLAY "THE SATISFIED CUSTOMER REPORT PROGRAM HAS ENDED".

/