

**Report 1**

DATE: 3/22/2020 ABC DEPARTMENT STORE PAGE 1

TIME: 9:06 PM CUSTOMER PURCHASES SELECTION REPORT

TYLER SATHER

SELECTION CRITERIA: PURCHASE DATE 09012001

MIN QUANTITY 3

DATE OF ACCOUNT

PURCHASE NUMBER CUSTOMER NAME ITEM PURCHASED QTY BALANCE

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9/02/2001 200485 VANWINKLE, RALPH CORDLESS WALL CLOCK 5 $312.50

9/04/2001 100710 RAYMOND, RONALD RUBBER FLOOR MAT 8 $230.00

9/05/2001 200753 WALLACE, MICHAEL RECYCLING BIN 6 $220.00

9/02/2001 200557 VONRYAN, ERICK NO. 7 PRINT RIBBON 7 $140.50

9/02/2001 100453 LOFTIS, DOUGLAS L. RECYCLING BIN 4 $110.00

9/04/2001 100735 RICHMOND, RICHARD 2 DRAWER CABINET 4 $100.00

9/05/2001 100886 SUMMERS, SUSAN STANDARD LABELS 4 $75.50

9/02/2001 100313 HATFIELD, BRADLEY DELUXE DESK PAD 5 $45.00

9/05/2001 100843 SINGER, ALEXIS E. 4" MESSAGE PADS 4 $15.00

9/03/2001 100993 TANDY, SANDI RED SHIPPING TAPE 6 $10.45

RECORDS PROCESSED = 64

RECORDS LISTED = 10

TOTAL BALANCE = 1,258.95

**Report 2**

DATE: 3/22/2020 ABC DEPARTMENT STORE PAGE 1

TIME: 9:07 PM CUSTOMER PURCHASES SELECTION REPORT

TYLER SATHER

SELECTION CRITERIA: ACCOUNT NUMBER 200001

MIN QUANTITY 4

MAX QUANTITY 6

BALANCE 015000

DATE OF ACCOUNT

PURCHASE NUMBER CUSTOMER NAME ITEM PURCHASED QTY BALANCE

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8/26/2001 200245 TYLANDI, SHONI STANDARD OAK DESK 5 $450.00

9/02/2001 200485 VANWINKLE, RALPH CORDLESS WALL CLOCK 5 $312.50

RECORDS PROCESSED = 64

RECORDS LISTED = 02

TOTAL BALANCE = 762.50

**Report 3**

DATE: 3/22/2020 ABC DEPARTMENT STORE PAGE 1

TIME: 9:08 PM CUSTOMER PURCHASES SELECTION REPORT

TYLER SATHER

SELECTION CRITERIA: PURCHASE DATE 08262001

ITEM PURCHASED GENERAL LEDG

DATE OF ACCOUNT

PURCHASE NUMBER CUSTOMER NAME ITEM PURCHASED QTY BALANCE

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9/01/2001 200047 THOMPSON, RODNEY GENERAL LEDGER CARDS 4 $180.00

9/01/2001 200871 WALTON, JOHN B. GENERAL LEDGER CARDS 3 $160.80

9/05/2001 100811 SANDERSON, PAULETTE GENERAL LEDGER CARDS 2 $5.00

9/04/2001 100940 SWIFT, RANDOLPH GENERAL LEDGER CARDS 1 $.00

RECORDS PROCESSED = 64

RECORDS LISTED = 04

TOTAL BALANCE = 345.80

**Report 4**

DATE: 3/22/2020 ABC DEPARTMENT STORE PAGE 1

TIME: 9:09 PM CUSTOMER PURCHASES SELECTION REPORT

TYLER SATHER

SELECTION CRITERIA: ACCOUNT NUMBER 300000

BALANCE 020000

DATE OF ACCOUNT

PURCHASE NUMBER CUSTOMER NAME ITEM PURCHASED QTY BALANCE

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9/04/2001 300444 ZOONEY, WILLIAM DESK SET W/CLOCK 3 $450.00

8/27/2001 300281 WYMAN, JANE 4' BOOK SHELF 4 $250.00

8/25/2001 300069 WILLIAMS, RONDA METAL WORK TABLE 3 $225.00

RECORDS PROCESSED = 64

RECORDS LISTED = 03

TOTAL BALANCE = 925.00

**Main program code**

IDENTIFICATION DIVISION.

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PROGRAM-ID. EX6-2.

AUTHOR. Tyler Sather.

INSTALLATION. M STATE.

DATE-WRITTEN. MARCH 8, 2020.

DATE-COMPILED.

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\* PROGRAM NARRATIVE \*

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\* THIS PROGRAM ACCEPTS SELECTION CRITERIA FROM THE KEYBOARD \*

\* AND DISPLAYS ONLY THE RECORDS THAT MEET THE CRITERIA AND \*

\* LISTS THE CRITERIA IN DECENDING SEQUENCE BY BALANCE \*

\* FOR THE ABC DEPARTMENT STORE \*

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

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\* OUTPUT: EX6.2.RPT - CUSTOMER PURCHASE REPORT \*

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ENVIRONMENT DIVISION.

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INPUT-OUTPUT SECTION.

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FILE-CONTROL.

SELECT CUSTOMER-SALES-FILE

ASSIGN TO

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

SELECT SORT-FILE

ASSIGN TO "SORTWORK".

SELECT CUSTOMER-PURCHASE-REPORT

ASSIGN TO

"C:\Users\PC\Desktop\Mstate\COBOL\CH6EX2\EX6-2.RPT".

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DATA DIVISION.

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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-REPORT.

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

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\* SORT FILE - SORT SELECTED CUSTOMERS BY BALANCE \*

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SD SORT-FILE.

01 SORT-RECORD.

02 PIC X(55).

02 SR-BALANCE PIC S9(4)V99.

02 PIC X(13).

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WORKING-STORAGE SECTION.

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\* SWITCHES \*

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01 SWITCHES.

02 SW-VALID-INPUT PIC X.

88 VALID-INPUT VALUE "Y".

02 SW-END-OF-FILE PIC X.

88 END-OF-FILE VALUE "Y".

02 SW-RELEASE-RECORD PIC X.

88 RELEASE-RECORD 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-XPAGE-COUNT PIC 999.

02 AC-XLINE-COUNT PIC 999.

02 AC-RECORD-COUNT PIC 999.

02 AC-LISTED-COUNT PIC 999.

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

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\* WORK AREA FIELDS \*

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01 WORK-AREA.

02 WA-TODAYS-DATE-TIME.

03 WA-TODAYS-DATE.

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

04 WA-TODAYS-MONTH PIC 99.

04 WA-TODAYS-DAY PIC 99.

03 WA-TODAYS-TIME.

04 WA-TODAYS-HOUR PIC 99.

04 WA-TODAYS-MINUTES PIC 99.

03 PIC X(9).

02 WA-DATE.

03 WA-MONTH PIC 99.

03 WA-DAY PIC 99.

03 WA-YEAR PIC 9(4).

02 WA-RUN-DATE

REDEFINES WA-DATE PIC 9(8).

02 WA-AM-PM PIC XX.

02 WA-SCREEN-HOLD PIC X.

02 WA-COMPARISON-DATE-1 PIC X(8).

02 WA-COMPARISON-DATE-2 PIC X(8).

02 WA-EDIT-DATE PIC X(8).

02 WA-EDIT-BALANCE PIC $,$$9.99.

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

02 WA-DATE-PURCHASE REDEFINES

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

02 WA-ACCOUNT-NUMBER-ALPHA PIC X(6).

02 WA-ACCOUNT-NUMBER REDEFINES

WA-ACCOUNT-NUMBER-ALPHA PIC 9(6).

02 WA-ITEM-PURCHASE PIC X(20).

02 WA-QUANTITY-PURCHASE-MIN-ALPHA PIC X.

02 WA-QUANTITY-PURCHASE-MIN REDEFINES

WA-QUANTITY-PURCHASE-MIN-ALPHA PIC 9.

02 WA-QUANTITY-PURCHASE-MAX-ALPHA PIC X.

02 WA-QUANTITY-PURCHASE-MAX REDEFINES

WA-QUANTITY-PURCHASE-MAX-ALPHA PIC 9.

02 WA-BALANCE-ALPHA PIC X(6).

02 WA-BALANCE REDEFINES

WA-BALANCE-ALPHA PIC S9(4)V99.

02 WA-CRITERIA PIC X(20).

02 WA-CRIT-TYPE PIC X(20).

02 WA-CRIT-MESSAGE PIC X(19).

02 WA-MESSAGE-1 PIC X(60).

02 WA-MESSAGE-2 PIC X(60).

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

02 WA-LINES PIC 99.

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\* CUSTOMER SALES RECORD \*

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01 CUSTOMER-SALES-RECORD.

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

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

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

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

02 CR-QUANTITY-PURCHASE PIC 9.

02 CR-BALANCE PIC S9(4)V99.

02 PIC X(13).

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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(18) VALUE SPACES.

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

03 PIC X(16) 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(13) VALUE SPACES.

03 PIC X(35) VALUE "CUSTOMER PURCHASES SELECTION REPORT".

02 RH-LINE-2A.

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

02 RH-LINE-3.

03 RH-CRITERIA-MSG PIC X(19).

03 PIC X(3) VALUE SPACES.

03 RH-CRITERIA-TYPE PIC X(19).

03 PIC X VALUE SPACES.

03 RH-CRITERIA PIC X(12).

02 RH-LINE-4.

03 PIC X(7) VALUE "DATE OF".

03 PIC X(4) VALUE SPACES.

03 PIC X(7) VALUE "ACCOUNT".

02 RH-LINE-5.

03 PIC X(8) VALUE "PURCHASE".

03 PIC X(3) VALUE SPACES.

03 PIC X(6) VALUE "NUMBER".

03 PIC X(2) VALUE SPACES.

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

03 PIC X(8) VALUE SPACES.

03 PIC X(14) VALUE "ITEM PURCHASED".

03 PIC X(8) VALUE SPACES.

03 PIC X(3) VALUE "QTY".

03 PIC X VALUE SPACES.

03 PIC X(7) VALUE "BALANCE".

02 RH-LINE-6.

03 PIC X(10) VALUE WA-HYPHENS.

03 PIC X VALUE SPACES.

03 PIC X(7) VALUE WA-HYPHENS.

03 PIC X VALUE SPACES.

03 PIC X(20) VALUE WA-HYPHENS.

03 PIC X VALUE SPACES.

03 PIC X(20) VALUE WA-HYPHENS.

03 PIC XX VALUE SPACES.

03 PIC XXX VALUE WA-HYPHENS.

03 PIC X VALUE SPACES.

03 PIC X(10) VALUE WA-HYPHENS.

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\* DETAIL LINE FOR THE SATISFIED CUSTOMER REPORT \*

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01 REPORT-DETAIL-LINE.

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

02 PIC X VALUE SPACES.

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

02 PIC XX VALUE SPACES.

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

02 PIC X VALUE SPACES.

02 RDL-ITEM-PURCHASE PIC X(20).

02 PIC XXX VALUE SPACES.

02 RDL-QUANTITY-PURCHASE PIC X.

02 PIC XX VALUE SPACES.

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

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\* SUMMARY LINES FOR THE SATISFED CUSTOMER REPORT \*

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01 REPORT-SUMMARY-LINES.

02 RSL-LINE-1.

03 PIC X(17) VALUE SPACES.

03 PIC X(26) VALUE "RECORDS PROCESSED = ".

03 RSL-RECORD-COUNT PIC ZZ9.

02 RSL-LINE-2.

03 PIC X(17) VALUE SPACES.

03 PIC X(26) VALUE "RECORDS LISTED = ".

03 RSL-LISTED-COUNT PIC Z99.

02 RSL-LINE-3.

03 PIC X(17) VALUE SPACES.

03 PIC X(20) VALUE "TOTAL BALANCE = ".

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

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SCREEN SECTION.

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\* INITIAL SCREEN FOR THE RECORD SELECTION CRITERIA \*

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01 SELECTION-CRITERIA-SCREEN.

02 BLANK SCREEN.

02 LINE 1 COLUMN 29 VALUE "COSTUMER PURCHASE RECORD SELECTION".

02 LINE 2 COLUMN 32 VALUE "CRITERIA INPUT SCREEN".

02 LINE 4 COLUMN 6 VALUE "DATE:".

02 COLUMN 12 VALUE "\_\_\_\_\_\_\_\_".

02 LINE 6 COLUMN 6 VALUE "ACCOUNT NUMBER:".

02 COLUMN 22 "\_\_\_\_\_\_".

02 LINE 8 COLUMN 6 VALUE "ITEM PURCHASED:".

02 COLUMN 22 "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_".

02 LINE 10 COLUMN 6 VALUE "MINIMUM QUANTITY:".

02 COLUMN 24 VALUE "\_".

02 LINE 12 COLUMN 6 "MAXIMUM QUANTITY:".

02 COLUMN 24 "\_".

02 lINE 14 COLUMN 6 VALUE "MINIMUM BALANCE:".

02 COLUMN 23 VALUE "\_\_\_\_\_\_".

01 SELECTION-MESSAGE.

02 LINE 16 COLUMN 10 PIC X(60) FROM WA-MESSAGE-1.

02 LINE 17 COLUMN 10 PIC X(60) FROM WA-MESSAGE-2.

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\* REPORT HEADING FOR RECORD SELECTION REPORT \*

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01 HEADING-LINE.

02 BLANK SCREEN.

02 LINE 1 COLUMN 1 VALUE "DATE".

02 COLUMN 6 PIC Z9/99/9999 FROM WA-RUN-DATE.

02 COLUMN 34 VALUE "ABC DEPARTMENT STORE".

02 COLUMN 70 VALUE "PAGE".

02 COLUMN 75 PIC ZZ9 FROM AC-PAGE-COUNT.

02 LINE 2 COLUMN 1 VALUE "TIME:".

02 COLUMN 7 PIC Z9 FROM WA-TODAYS-HOUR.

02 COLUMN 9 VALUE ":".

02 COLUMN 10 PIC 99 FROM WA-TODAYS-MINUTES.

02 COLUMN 13 PIC XX FROM WA-AM-PM.

01 CRITERIA-LINE.

02 LINE AC-LINE-COUNT.

02 COLUMN 1 PIC X(19) FROM WA-CRIT-MESSAGE.

02 COLUMN 23 PIC X(19) FROM WA-CRIT-TYPE.

02 COLUMN 43 PIC X(12) FROM WA-CRITERIA.

01 COLUMN-HEADING-1.

02 LINE AC-LINE-COUNT.

02 COLUMN 1 VALUE "DATE OF".

02 COLUMN 12 VALUE "ACCOUNT".

02 LINE AC-LINE-COUNT.

02 COLUMN 1 VALUE "PURCHASE".

02 COLUMN 12 VALUE "NUMBER".

02 COLUMN 21 VALUE "CUSTOMER NAME".

02 COLUMN 42 VALUE "ITEM PURCHASED".

02 COLUMN 65 VALUE "QTY".

02 COLUMN 70 VALUE "BALANCE".

01 COLUMN-HEADING-2.

02 LINE AC-LINE-COUNT.

02 COLUMN 1 PIC X(10) FROM WA-HYPHENS.

02 COLUMN 12 PIC X(7) FROM WA-HYPHENS.

02 COLUMN 21 PIC X(20) FROM WA-HYPHENS.

02 COLUMN 42 PIC X(20) FROM WA-HYPHENS.

02 COLUMN 65 PIC X(3) FROM WA-HYPHENS.

02 COLUMN 70 PIC X(10) FROM WA-HYPHENS.

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\* DETAIL LINE FOR RECORD SELECTION REPORT \*

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01 DETAIL-LINE.

02 LINE AC-LINE-COUNT.

02 COLUMN 1 PIC Z9/99/9999 FROM CR-DATE-PURCHASE.

02 COLUMN 12 PIC X(7) FROM CR-ACCOUNT-NUMBER.

02 COLUMN 21 PIC X(20) FROM CR-CUSTOMER-NAME.

02 COLUMN 42 PIC X(20) FROM CR-ITEM-PURCHASE.

02 COLUMN 66 PIC 9 FROM CR-QUANTITY-PURCHASE.

02 COLUMN 70 PIC Z,Z99.99 FROM CR-BALANCE.

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\* SUMMARY LINE FOR RECORD SELECTION REPORT \*

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01 SUMMARY-LINES.

02 SL-LINE-1.

03 LINE AC-LINE-COUNT.

03 COLUMN 18 VALUE "RECORDS PROCESSED =".

03 COLUMN 44 PIC ZZ9 FROM AC-RECORD-COUNT.

02 SL-LINE-2.

03 LINE AC-LINE-COUNT.

03 COLUMN 18 VALUE "RECORDS LISTED =".

03 COLUMN 44 PIC ZZ9 FROM AC-LISTED-COUNT.

02 SL-LINE-3.

03 COLUMN 18 VALUE "TOTAL BALANCE =".

03 COLUMN 44 PIC ZZZ,ZZ9.99 FROM AC-TOTAL-BALANCE.

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-SELECTION-REPORT.

PERFORM C-100-WRAP-UP.

STOP RUN.

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\* HOUSEKEEPING PARAGRAPH \*

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A-100-INITIALIZATION.

INITIALIZE ACCUMULATORS.

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

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\* ACCEPT-CRITERIA, SELECT RECORD, SORT AND DISPLAY \*

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B-100-SELECTION-REPORT.

PERFORM B-200-CRITERIA-CONTROL.

SORT SORT-FILE

ON DESCENDING KEY SR-BALANCE

INPUT PROCEDURE B-210-SELECT-RECORDS

OUTPUT PROCEDURE B-220-DISPLAY-REPORT.

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\* CRITERIA CONTROL PARAGRAPH \*

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B-200-CRITERIA-CONTROL.

DISPLAY SELECTION-CRITERIA-SCREEN.

MOVE "N" TO SW-VALID-INPUT.

MOVE "PLEASE ENTER THE DATE IN MMDDYYYY FORMAT"

TO WA-MESSAGE-1.

MOVE "PRESS ENTER TO SKIP"

TO WA-MESSAGE-2.

PERFORM B-300-DATE-CRITERIA

UNTIL VALID-INPUT.

MOVE "N" TO SW-VALID-INPUT.

MOVE "ENTER ACCOUNT NUMBER BETWEEN 10000 AND 500000"

TO WA-MESSAGE-1.

PERFORM B-305-ACCOUNT-CRITERIA

UNTIL VALID-INPUT.

MOVE "ENTER AN ITEM NAME"

TO WA-MESSAGE-1.

PERFORM B-310-ITEM-PURCHASE-CRITERIA

MOVE "N" TO SW-VALID-INPUT.

MOVE "ENTER A SINGLE NUMERIC GREATER THAN 0 FOR A MIN QUANTITY"

TO WA-MESSAGE-1.

PERFORM B-315-MIN-QUANTITY-CRITERIA

UNTIL VALID-INPUT.

MOVE "N" TO SW-VALID-INPUT.

MOVE "ENTER A SINGLE NUMERIC GREATER THAN 0 FOR A MAX QUANTITY"

TO WA-MESSAGE-1.

PERFORM B-320-MAX-QUANTITY-CRITERIA

UNTIL VALID-INPUT.

MOVE "N" TO SW-VALID-INPUT.

MOVE "ENTER SIX DIGIT BALANCE"

TO WA-MESSAGE-1.

PERFORM B-325-MIN-BALANCE-CRITERIA

UNTIL VALID-INPUT.

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\* RECORD SELECTION CONTROL PARAGRAPH \*

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B-210-SELECT-RECORDS.

OPEN INPUT CUSTOMER-SALES-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-330-RELEASE-RECORDS

UNTIL END-OF-FILE.

CLOSE CUSTOMER-SALES-FILE.

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\* RETURN RECORDS AND DISPLAY SELECTION REPORT \*

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B-220-DISPLAY-REPORT.

OPEN OUTPUT CUSTOMER-PURCHASE-REPORT.

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 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.

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

RETURN SORT-FILE INTO CUSTOMER-SALES-RECORD

AT END

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

MOVE ZERO TO AC-LINE-COUNT AC-XLINE-COUNT.

PERFORM B-335-RETURN-RECORDS

UNTIL END-OF-FILE.

IF AC-LISTED-COUNT = 0

DISPLAY "NO RECORDS MATCH YOUR SELECTION CRITERIA!"

LINE 20 COLUMN 20.

MOVE 21 TO AC-LINE-COUNT.

ADD 1 TO AC-LINE-COUNT.

MOVE AC-RECORD-COUNT TO RSL-RECORD-COUNT.

MOVE AC-LISTED-COUNT TO RSL-LISTED-COUNT.

MOVE AC-TOTAL-BALANCE TO RSL-TOTAL-BALANCE.

DISPLAY SL-LINE-1.

WRITE CUSTOMER-LINE-OUT FROM RSL-LINE-1

AFTER ADVANCING 2 lines.

ADD 1 TO AC-LINE-COUNT.

DISPLAY SL-LINE-2.

WRITE CUSTOMER-LINE-OUT FROM RSL-LINE-2

AFTER ADVANCING 1 line.

ADD 1 TO AC-LINE-COUNT.

DISPLAY SL-LINE-3.

WRITE CUSTOMER-LINE-OUT FROM RSL-LINE-3

AFTER ADVANCING 1 line.

CLOSE CUSTOMER-PURCHASE-REPORT.

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\* ACCEPT DATE \*

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B-300-DATE-CRITERIA.

DISPLAY SELECTION-MESSAGE.

ACCEPT WA-DATE-PURCHASE-ALPHA LINE 4 COLUMN 12.

IF WA-DATE-PURCHASE-ALPHA = SPACES

MOVE "Y" TO SW-VALID-INPUT

ELSE

IF WA-DATE-PURCHASE-ALPHA NOT NUMERIC

MOVE "THE DATE IS NOT NUMERIC!" TO WA-MESSAGE-1

ELSE

IF WA-DATE-PURCHASE-ALPHA (1:2) < "01" OR > "12"

MOVE "THE MONTH IS INVALID" TO WA-MESSAGE-1

ELSE

IF WA-DATE-PURCHASE-ALPHA (3:2) < "01" OR > "31"

MOVE "THE DAY IS INVALID" TO WA-MESSAGE-1

ELSE

IF WA-DATE-PURCHASE-ALPHA (5:4) < "1999" OR

> WA-TODAYS-YEAR

MOVE "YEAR OUT OF RANGE" TO WA-MESSAGE-1

ELSE

MOVE "Y" TO SW-VALID-INPUT.

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\* ACCEPT ACCOUNT \*

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B-305-ACCOUNT-CRITERIA.

DISPLAY SELECTION-MESSAGE.

ACCEPT WA-ACCOUNT-NUMBER-ALPHA LINE 6 COLUMN 22.

IF WA-ACCOUNT-NUMBER-ALPHA = SPACES

MOVE "Y" TO SW-VALID-INPUT

ELSE

IF WA-ACCOUNT-NUMBER-ALPHA NOT NUMERIC

MOVE "ACCOUNT NUMBER MUST BE NUMERIC" TO WA-MESSAGE-1

ELSE

IF WA-ACCOUNT-NUMBER-ALPHA <= "10000" OR >= "500000"

MOVE "ACCOUNT NUMBER IS OUT OF RANGE"

TO WA-MESSAGE-1

ELSE

MOVE "Y" TO SW-VALID-INPUT.

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\* ACCEPT ITEM PURCHASE \*

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B-310-ITEM-PURCHASE-CRITERIA.

DISPLAY SELECTION-MESSAGE.

ACCEPT WA-ITEM-PURCHASE LINE 8 COLUMN 22.

MOVE FUNCTION UPPER-CASE (WA-ITEM-PURCHASE)

TO WA-ITEM-PURCHASE.

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\* ACCEPT MIN QUANTITY \*

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B-315-MIN-QUANTITY-CRITERIA.

DISPLAY SELECTION-MESSAGE.

ACCEPT WA-QUANTITY-PURCHASE-MIN-ALPHA LINE 10 COLUMN 24.

IF WA-QUANTITY-PURCHASE-MIN-ALPHA = SPACES

MOVE "Y" TO SW-VALID-INPUT

ELSE

IF WA-QUANTITY-PURCHASE-MIN-ALPHA NOT numeric

MOVE "MUST BE A NUMERIC ENTRY" TO WA-MESSAGE-1

ELSE

IF WA-QUANTITY-PURCHASE-MIN-ALPHA < "1" OR > "9"

MOVE "NUMBER OUT OF RANGE" TO WA-MESSAGE-1

ELSE

MOVE "Y" TO SW-VALID-INPUT.

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\* ACCEPT MAX QUANTITY \*

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B-320-MAX-QUANTITY-CRITERIA.

DISPLAY SELECTION-MESSAGE.

ACCEPT WA-QUANTITY-PURCHASE-MAX-ALPHA LINE 12 COLUMN 24.

IF WA-QUANTITY-PURCHASE-MAX-ALPHA = SPACES

MOVE "Y" TO SW-VALID-INPUT

ELSE

IF WA-QUANTITY-PURCHASE-MAX-ALPHA NOT numeric

MOVE "MUST BE A NUMERIC ENTRY" TO WA-MESSAGE-1

ELSE

IF WA-QUANTITY-PURCHASE-MAX-ALPHA < "1" OR > "9"

MOVE "NUMBER OUT OF RANGE" TO WA-MESSAGE-1

ELSE

MOVE "Y" TO SW-VALID-INPUT.

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\* ACCEPT MIN BALANCE \*

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B-325-MIN-BALANCE-CRITERIA.

DISPLAY SELECTION-MESSAGE.

ACCEPT WA-BALANCE-ALPHA LINE 14 COLUMN 23.

IF WA-BALANCE-ALPHA = SPACES

MOVE "Y" TO SW-VALID-INPUT

ELSE

IF WA-BALANCE-ALPHA NOT numeric

MOVE "MUST BE A NUMERIC ENTRY" TO WA-MESSAGE-1

ELSE

IF WA-BALANCE-ALPHA = 0

MOVE "BALANCE MUST BE OVER 0" TO WA-MESSAGE-1

ELSE

MOVE "Y" TO SW-VALID-INPUT.

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\* COMPARE RECORD TO CRITERIA AND RELEASE \*

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B-330-RELEASE-RECORDS.

MOVE "Y" TO SW-RELEASE-RECORD.

ADD 1 TO AC-RECORD-COUNT.

IF WA-DATE-PURCHASE-ALPHA NOT = SPACES

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

WA-COMPARISON-DATE-1(3:2)

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

WA-COMPARISON-DATE-1(5:2)

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

WA-COMPARISON-DATE-1(1:2)

MOVE CR-DATE-PURCHASE(1:2) TO

WA-COMPARISON-DATE-2(3:2)

MOVE CR-DATE-PURCHASE(3:2) TO

WA-COMPARISON-DATE-2(5:2)

MOVE CR-DATE-PURCHASE(5:2) TO

WA-COMPARISON-DATE-2(1:2)

IF WA-COMPARISON-DATE-1 >= WA-COMPARISON-DATE-2

MOVE "N" TO SW-RELEASE-RECORD.

IF WA-ACCOUNT-NUMBER-ALPHA NOT = SPACES

IF WA-ACCOUNT-NUMBER >= CR-ACCOUNT-NUMBER

MOVE "N" TO SW-RELEASE-RECORD.

IF WA-ITEM-PURCHASE NOT = SPACES

IF WA-ITEM-PURCHASE NOT = CR-ITEM-PURCHASE

MOVE "N" TO SW-RELEASE-RECORD.

IF WA-QUANTITY-PURCHASE-MIN-ALPHA NOT = SPACES

IF WA-QUANTITY-PURCHASE-MIN >= CR-QUANTITY-PURCHASE

MOVE "N" TO SW-RELEASE-RECORD.

IF WA-QUANTITY-PURCHASE-MAX-ALPHA NOT = SPACES

IF WA-QUANTITY-PURCHASE-MAX <= CR-QUANTITY-PURCHASE

MOVE "N" TO SW-RELEASE-RECORD.

IF WA-BALANCE-ALPHA NOT = SPACES

IF WA-BALANCE >= CR-BALANCE

MOVE "N" TO SW-RELEASE-RECORD.

IF RELEASE-RECORD

RELEASE SORT-RECORD FROM CUSTOMER-SALES-RECORD.

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

AT END

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

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\* RETURN RECORDS AND DISPLAY SELECTION REPORT \*

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B-335-RETURN-RECORDS.

IF AC-LINE-COUNT = 0

PERFORM B-400-DISPLAY-HEADINGS.

IF AC-XLINE-COUNT = 0

PERFORM B-405-DISPLAY-HEADINGS.

MOVE CR-DATE-PURCHASE TO RDL-DATE-PURCHASE.

MOVE CR-ACCOUNT-NUMBER TO RDL-ACCOUNT-NUMBER.

MOVE CR-CUSTOMER-NAME TO RDL-CUSTOMER-NAME.

MOVE CR-ITEM-PURCHASE TO RDL-ITEM-PURCHASE.

MOVE CR-QUANTITY-PURCHASE TO RDL-QUANTITY-PURCHASE.

MOVE CR-BALANCE TO RDL-BALANCE.

DISPLAY DETAIL-LINE.

WRITE CUSTOMER-LINE-OUT FROM REPORT-DETAIL-LINE

AFTER ADVANCING 1 LINE.

ADD CR-BALANCE TO AC-TOTAL-BALANCE.

ADD 1 TO AC-XLINE-COUNT.

ADD 1 TO AC-LINE-COUNT.

ADD 1 TO AC-LISTED-COUNT.

IF AC-LINE-COUNT > 20

MOVE ZERO TO AC-LINE-COUNT

DISPLAY "PRESS ENTER TO CONTINUE" LINE 24 COLUMN 1

ACCEPT WA-SCREEN-HOLD LINE 24 COLUMN 25.

IF AC-XLINE-COUNT > 55

MOVE ZERO TO AC-XLINE-COUNT.

RETURN SORT-FILE INTO CUSTOMER-SALES-RECORD

AT END

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

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\* PAGE HEADING PARAGRAPH FOR SCREEN \*

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B-400-DISPLAY-HEADINGS.

ADD 1 TO AC-PAGE-COUNT.

DISPLAY HEADING-LINE.

MOVE 4 TO AC-LINE-COUNT.

PERFORM B-500-DISPLAY-CRITERIA.

DISPLAY COLUMN-HEADING-1.

ADD 1 TO AC-LINE-COUNT.

DISPLAY COLUMN-HEADING-2.

ADD 1 TO AC-LINE-COUNT.

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\* PAGE HEADING PARAGRAPH FOR REPORT \*

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B-405-DISPLAY-HEADINGS.

ADD 1 TO AC-XLINE-COUNT.

ADD 1 TO AC-XPAGE-COUNT.

MOVE WA-RUN-DATE TO RH-DATE.

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

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-1

AFTER ADVANCING 2 LINES.

MOVE WA-TODAYS-HOUR TO RH-HOUR.

MOVE WA-TODAYS-MINUTES TO RH-MINUTES.

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

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-2

AFTER ADVANCING 1 LINE.

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

AFTER ADVANCING 1 LINE.

MOVE 5 TO AC-XLINE-COUNT.

PERFORM B-505-DISPLAY-CRITERIA.

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-4

AFTER ADVANCING 2 LINES.

ADD 2 TO AC-XLINE-COUNT.

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-5

AFTER ADVANCING 1 LINE.

ADD 1 TO AC-XLINE-COUNT.

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-6

AFTER ADVANCING 1 LINE.

ADD 1 TO AC-XLINE-COUNT.

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\* DISPLAY SCREEN FOR CRITERIA \*

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B-500-DISPLAY-CRITERIA.

MOVE "SELECTION CRITERIA:" TO WA-CRIT-MESSAGE.

IF WA-DATE-PURCHASE-ALPHA NOT = SPACES

MOVE "PURCHASE DATE" TO WA-CRIT-TYPE

MOVE WA-DATE-PURCHASE-ALPHA TO WA-CRITERIA

DISPLAY CRITERIA-LINE

MOVE SPACES TO WA-CRIT-MESSAGE

ADD 1 TO AC-LINE-COUNT.

IF WA-ACCOUNT-NUMBER-ALPHA NOT = SPACES

MOVE "ACCOUNT NUMBER" TO WA-CRIT-TYPE

MOVE WA-ACCOUNT-NUMBER-ALPHA TO WA-CRITERIA

DISPLAY CRITERIA-LINE

MOVE SPACES TO WA-CRIT-MESSAGE

ADD 1 TO AC-LINE-COUNT.

IF WA-ITEM-PURCHASE NOT = SPACES

MOVE "ITEM PURCHASED" TO WA-CRIT-TYPE

MOVE WA-ITEM-PURCHASE TO WA-CRITERIA

DISPLAY CRITERIA-LINE

MOVE SPACES TO WA-CRIT-MESSAGE

ADD 1 TO AC-LINE-COUNT.

IF WA-QUANTITY-PURCHASE-MIN-ALPHA NOT = SPACES

MOVE "MIN QUANTITY" TO WA-CRIT-TYPE

MOVE WA-QUANTITY-PURCHASE-MIN-ALPHA TO WA-CRITERIA

DISPLAY CRITERIA-LINE

MOVE SPACES TO WA-CRIT-MESSAGE

ADD 1 TO AC-LINE-COUNT.

IF WA-QUANTITY-PURCHASE-MAX-ALPHA NOT = SPACES

MOVE "MAX QUANTITY" TO WA-CRIT-TYPE

MOVE WA-QUANTITY-PURCHASE-MAX-ALPHA TO WA-CRITERIA

DISPLAY CRITERIA-LINE

MOVE SPACES TO WA-CRIT-MESSAGE

ADD 1 TO AC-LINE-COUNT.

IF WA-BALANCE-ALPHA NOT = SPACES

MOVE "BALANCE" TO WA-CRIT-TYPE

MOVE WA-BALANCE-ALPHA TO WA-CRITERIA

DISPLAY CRITERIA-LINE

MOVE SPACES TO WA-CRIT-MESSAGE

ADD 1 TO AC-LINE-COUNT.

ADD 1 TO AC-LINE-COUNT.

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\* DISPLAY SCREEN FOR CRITERIA \*

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B-505-DISPLAY-CRITERIA.

MOVE SPACES TO CUSTOMER-LINE-OUT,

WRITE CUSTOMER-LINE-OUT AFTER ADVANCING 1 line.

MOVE "SELECTION CRITERIA:" TO RH-CRITERIA-MSG.

IF WA-DATE-PURCHASE-ALPHA NOT = SPACES

MOVE "PURCHASE DATE" TO RH-CRITERIA-TYPE

MOVE WA-DATE-PURCHASE-ALPHA TO RH-CRITERIA

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 1 line

MOVE SPACES TO RH-CRITERIA-MSG

ADD 1 TO AC-XLINE-COUNT.

IF WA-ACCOUNT-NUMBER-ALPHA NOT = SPACES

MOVE "ACCOUNT NUMBER" TO RH-CRITERIA-TYPE

MOVE WA-ACCOUNT-NUMBER-ALPHA TO RH-CRITERIA

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 1 line

MOVE SPACES TO RH-CRITERIA-MSG

ADD 1 TO AC-XLINE-COUNT.

IF WA-ITEM-PURCHASE NOT = SPACES

MOVE "ITEM PURCHASED" TO RH-CRITERIA-TYPE

MOVE WA-ITEM-PURCHASE TO RH-CRITERIA

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 1 line

MOVE SPACES TO RH-CRITERIA-MSG

ADD 1 TO AC-XLINE-COUNT.

IF WA-QUANTITY-PURCHASE-MIN-ALPHA NOT = SPACES

MOVE "MIN QUANTITY" TO RH-CRITERIA-TYPE

MOVE WA-QUANTITY-PURCHASE-MIN-ALPHA TO RH-CRITERIA

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 1 line

MOVE SPACES TO RH-CRITERIA-MSG

ADD 1 TO AC-XLINE-COUNT.

IF WA-QUANTITY-PURCHASE-MAX-ALPHA NOT = SPACES

MOVE "MAX QUANTITY" TO RH-CRITERIA-TYPE

MOVE WA-QUANTITY-PURCHASE-MAX-ALPHA TO RH-CRITERIA

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 1 line

MOVE SPACES TO RH-CRITERIA-MSG

ADD 1 TO AC-XLINE-COUNT.

IF WA-BALANCE-ALPHA NOT = SPACES

MOVE "BALANCE" TO RH-CRITERIA-TYPE

MOVE WA-BALANCE-ALPHA TO RH-CRITERIA

WRITE CUSTOMER-LINE-OUT FROM RH-LINE-3

AFTER ADVANCING 1 line

MOVE SPACES TO RH-CRITERIA-MSG

ADD 1 TO AC-XLINE-COUNT.

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\* END OF JOB PARAGRAPH \*

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C-100-WRAP-UP.

DISPLAY "CRITERIA SELECTION REPORT HAS TERMINATED"

LINE 24 COLUMN 10.

DISPLAY "PRESS ENTER TO CONTINUE" LINE 25 COLUMN 1

ACCEPT WA-SCREEN-HOLD LINE 25 COLUMN 25.

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\* END OF PROGRAM \*

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