#### DAWSON COLLEGE COMPUTER SCIENCE DEPARTMENT

LABORATORY PRESENTATION MANUAL

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#### LAB REPORT CONTENTS

Your laboratory presentation should include the following detail specifications.

1 - Title page

I

- 2 Table of contents
- 3 Program narrative
- \* 4 Program constraints (if any)
  - 5 System flowchart
  - 6 File description form(s)
  - 7 Printer Spacing Chart (or VDU/CRT form)
  - 8 Structure chart (Hierarchy chart)
  - 9 Structured flowchart or Pseudocode
  - 10 The test data file listing
  - 11 Validation of test results
  - 12 The Deskchecking Procedure
  - 13 The compiled listing of the source code
  - 14 The test data run
  - 15 The production run

#### \*PROGRAM CONSTRAINTS:

In this section you state the limitations imposed on your program. For example, if you left a two digit field for hours worked, then the program can only handle hours worked up to 99 hours per pay period. Other constraints are such things as the maximum pay rate, gross pay, net pay, and sizes allocated to internal tables, if any. Impossible values are **not** listed as constraints. For example, if you leave a 3 digit field for the number of years that the employee has been with the company, it is physically impossible that this be considered a constraint. The reason being that you will never encounter an employee who has been with a company for over 999 years.

#### $\mathbf{II}$

#### LAB REPORT REQUIREMENTS

1. All lab reports must be submitted in a **duo-tang** folder, with a label on the outside containing the following information:

Your name Title of the lab Lab Assignment #

- 2. All lab documentation must be produced using a word processor and checked for correct spelling, except where diagrams or hand calculations are involved.
- 3. Lab reports must be submitted on the date due, at the time requested. <u>If lab reports are due at the start of class, those reports submitted during or after class will be considered late.</u>

COBOL I 420-201-90 Section 02

LAB TITLE: Purchase Report

(Lab #1)

Prepared by: C.Legendre Student id: 9999999 Date Due: 01/08/93

Prepared for: Teacher's name Date submitted: Grade Awarded:

#### TABLE OF CONTENTS

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Structure Chart	9
Structured Flowchart	10-15
Listing of Test Data File	16
Statement of Verification Technique	17
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Compiled Listing	21-25
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#### PROGRAM NARRATIVE

Program name: PURCHRPT

Purpose: The program prepares a detail report containing all

customer purchases.

Description: Each record of the input file contains the following fields: a customer number, a customer

name and a purchase amount.

For each customer record read an output line is printed containing the customer number, the customer name and the amount purchased by the customer. The data is printed in edited form. The program accumulates the purchase amounts so that the total amount purchased by the customers can be printed at the end of the report.

The output is a multi-page detail report with appropriate report and column headings. There is a maximum of 40 detail lines which can be printed per page.

page 6).

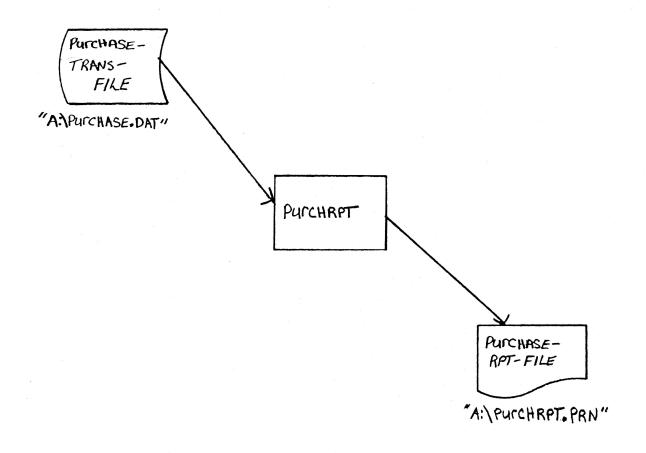
Output: A purchase report file. See attached Printer File(s) Spacing Chart (page 8).

Program
Constraints: Purchase amount cannot exceed \$99,999.99

Assumes a maximum of 100 customers in order to determine the size of the sum of the purchases. Maximum sum = 99,999.99 X 100 = \$9,999,999.99

There is a maximum of 40 detail lines per page.

## SYSTEM FLOWCHART



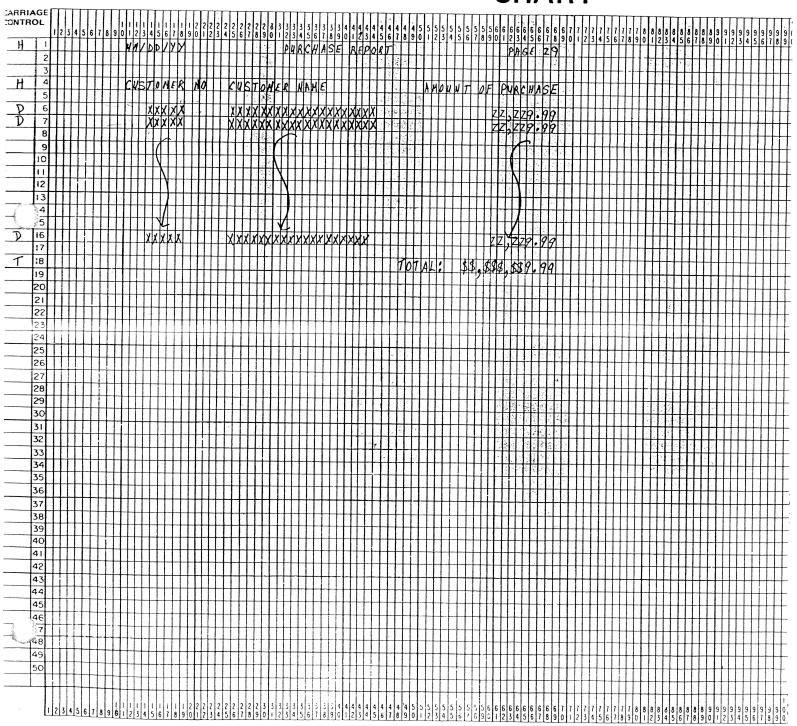
#### FILE DESCRIPTION FORM

## FILE DEFINITION: FILE NAME: INTERNAL PURCHASE-TRANS-FILE EXTERNAL PURCHASE. DAT (DOS FILE NAME/DDNAME) (MAINFRAME ONLY) DSNAME MEDIUM: MICRO DISK\_X INPUT STREAM\_\_\_ MAINFRAME DISK\_\_\_ FILE TYPE: MICRO: TEXT X MAINFRAME: PHYSICAL SEQUENTIAL BINARY VSAM-ESDS VSAM-KSDS VSAM-RRDS PARTITIONED RECORD DEFINITION: RECORD LENGTH: PURCHASE-TRANS-REC RECORD LENGTH: 32 BLOCKSIZE: NA RECORD FORMAT: FIXED X VARIABLE PRIMARY KEY: NA KEY LENGTH: KEY POSITION: SECONDARY KEY: KEY LENGTH: KEY POSITION: FIELD DEFINITION(S): TYPE/PICTURE SIZE/BYTES COLUMNS FIELD NAME 01-05 CUST-NUM-IN X(ao) <u>ao</u> 06-25 CUST-NAME-IN 26-32 PURCH-AMT-IN

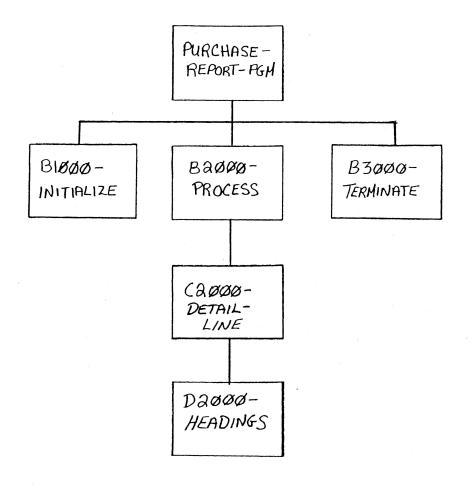
FILE NAME: PURCHASE-RPT-FILE

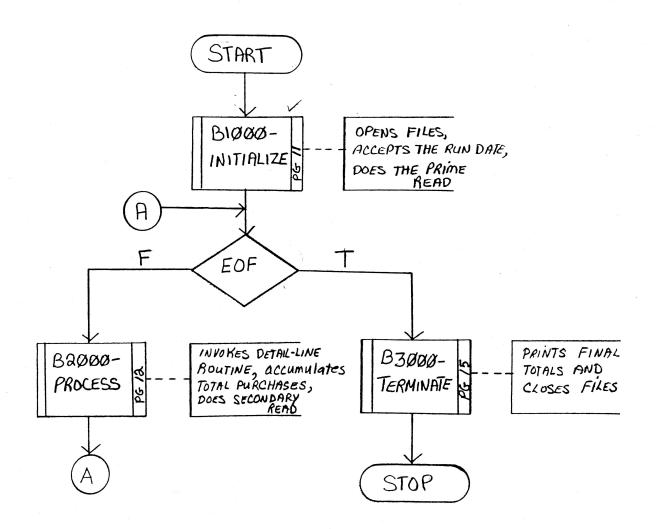
RECORD LENGTH: 80 CHARACTERS

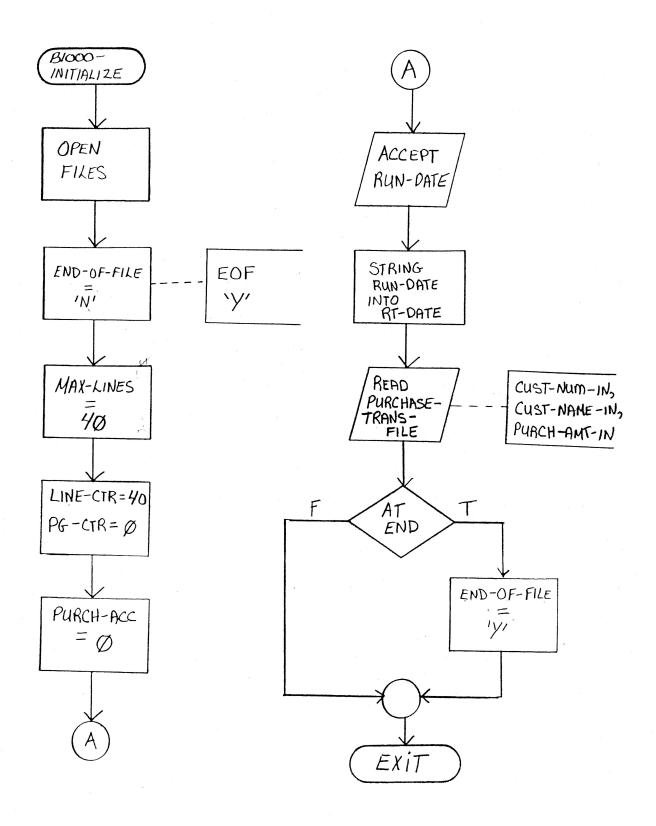
# PRINTER SPACING CHART

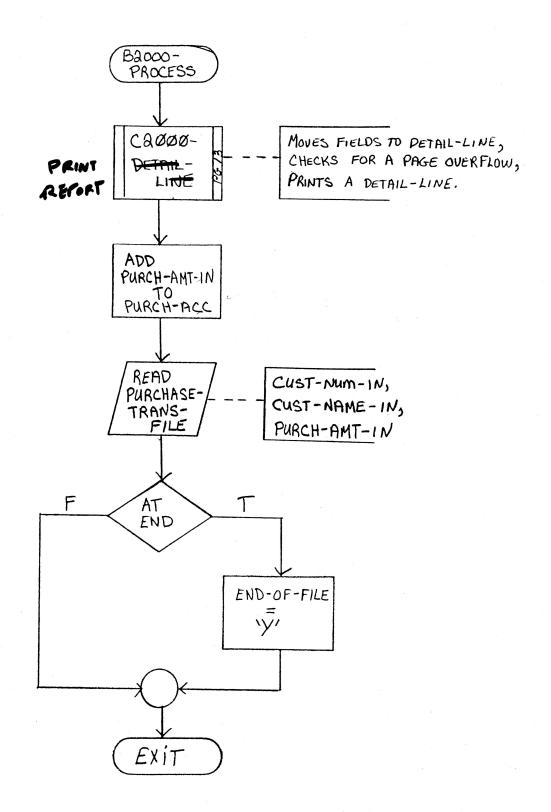


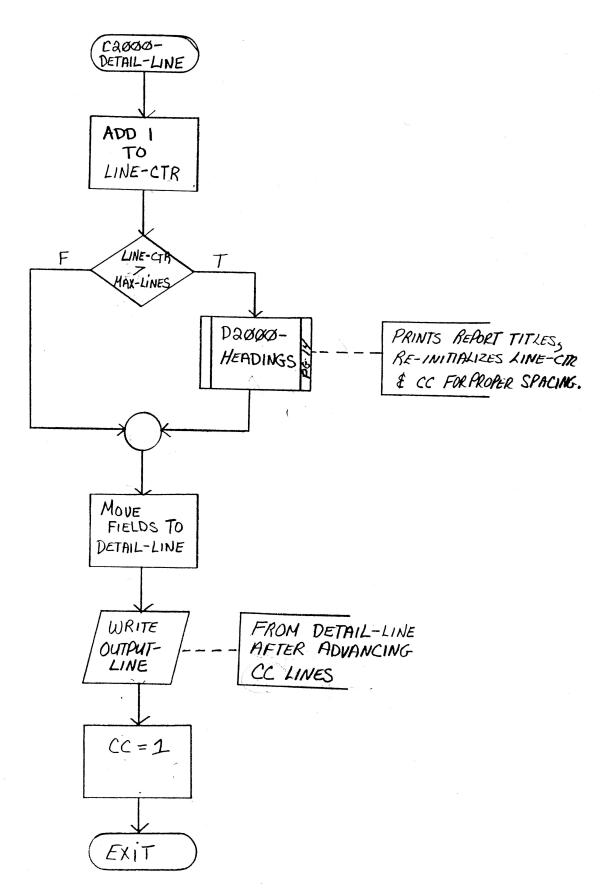
## STRUCTURE CHART

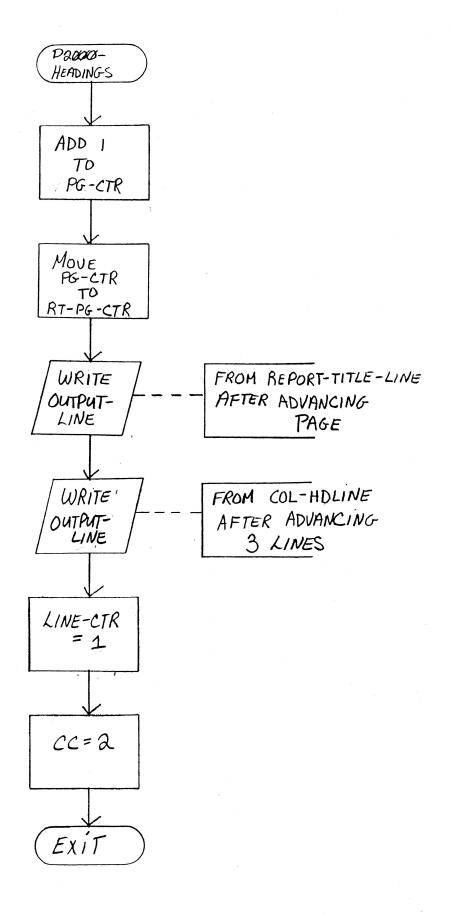


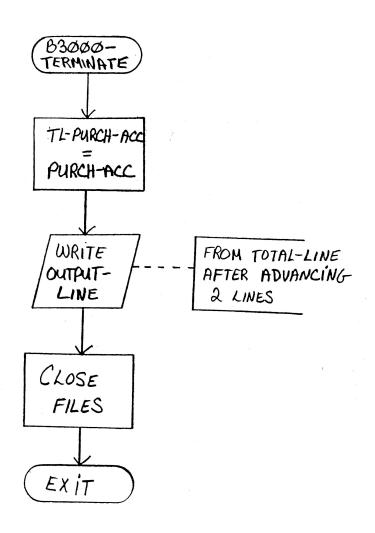












#### TEST DATA LISTING

1234Susan Smith	0017523
21456Tammy Cree	0021817
34111Peter Jones	02183 <u>19</u>
	0257659

TOTAL

#### STATEMENT OF VERIFICATION TECHNIQUE

#### Procedure:

- 1. Manually add the values in the field PURCH-AMT-IN in the test data file.
- 2. Deskcheck the flowchart. The total arrived at in step 1, will be compared with the total obtained in the deskchecking routine to ensure that the logic is correct.

3 1884th Johals will notely Tabalon Test Dun

## DESKCHECKING ROUTINE

CONSTANTS! MAX-LINES = 40 (deskchecking routine assumes à lines per page)

CONTROL FLOW	EOF 'Y'	LINE- CTR	PG- CTR	PURCH - ACC	RUN- DATE	RT- DATE	CUST- NUM-IN	CUST-	PURCH- AMT-IN	RT-PG- CTR	CC
MM B1ØØØ MM	X	a	×	×	-		<i>y</i>	S <del>usan Smit</del> h	0 <del>017523</del>		
Baøøø Caøøø Paøøø Caøøø		オメ	X							X	X +
82000 MM Baøø0				००।गडरु३			21456	Tammy Cree	0021817-		1
Caøøø Baøøø mm		X		<del>003934</del> 0			34///	PETER Jones	0218319	·	<i>*</i> :
Baggg Caggg Caggg		8	٩							2	<i>x</i> /
Варфф ММ ВЗ <b>ф</b> ф ММ	Y			0257659							

	7	DETAIL-LINE			
CONTROL FLOW	DL-CUST- NUM	DL-CUST- NAME	DL-AURCH- AMT	TL-PURCH- ACC	
C2000	12345	Susan Smith	175.83	,	
Cadad	21456	Tammy Cree	218.17		
ÇSQQQ	34111	PETER Zones	2183.19		
B3 ØØØ				\$2,576.59	
				•	
19					
<b>4</b>			,		
		1			

### OUTPUT

01/23/92

Report title

PAGE 1

CUSTOMER NO

CUSTOMER NAME

AMOUNT OF PURCHASE

12345 21456 Susan Smith Tammy Cree

175.23

01/23/92

REPORT TITLE

PAGE 2

CUSTOMER NO

CUSTOMER NAME

AMOUNT OF PURCHASE

34111

PETER Jones

2,183.19

TOTAL!

\$ 2,576.59

ಬ್

. . . .

```
Micro Focus COBOL Version 3.0.62 L2.4 revision 003 14-Dec-93 16:30 Page
                                     PURCHRPT.CBL
Options: LIST(PURCHRPT.LST) NOASMLIST
   1 IDENTIFICATION DIVISION.
   2
   3 PROGRAM-ID.
                               PURCHRPT.
   4 AUTHOR.
                               C.LEGENDRE.
   5 DATE-WRITTEN.
                               DECEMBER 14, 1993.
   6 DATE-COMPILED. 14-Dec-93 16:30.
   8**********************************
   9* THIS PROGRAM PREPARES A PURCHASE DETAIL REPORT.
                                                                  *
  10*
                                                                  *
  11* EACH RECORD OF THE INPUT FILE CONTAINS THE FOLLOWING FIELDS:
                                                                  *
  12* A CUSTOMER NUMBER, A CUSTOMER NAME AND A PURCHASE AMOUNT.
  14* FOR EACH CUSTOMER RECORD READ AN OUTPUT LINE WILL BE PRINTED
  15* CONTAINING THE CUSTOMER NUMBER, THE CUSTOMER NAME AND THE
  16* AMOUNT PURCHASED BY THE CUSTOMER.
                                       THE DATA IS PRINTED IN
  17* EDITED FORM.
                   THE PROGRAM ACCUMULATES THE PURCHASE AMOUNTS
  18* SO THAT THE TOTAL AMOUNT PURCHASED BY THE CUSTOMERS CAN BE
  19* PRINTED AT THE END OF THE REPORT.
  20*
  21* THE OUTPUT IS A MULTI-PAGE DETAIL REPORT WITH APPROPRIATE
  22* REPORT AND COLUMN HEADINGS. THERE IS A MAXIMUM OF 40 DETAIL
  23* LINES PER PAGE.
  25
  26 ENVIRONMENT DIVISION.
  27
  28 INPUT-OUTPUT SECTION.
  29
  30 FILE-CONTROL.
  31
         SELECT PURCHASE-TRANS-FILE ASSIGN TO "A:\PURCHASE.DAT"
  32
            ORGANIZATION IS LINE SEQUENTIAL.
         SELECT PURCHASE-RPT-FILE ASSIGN TO "A:\PURCHRPT.PRN".
  33
  34
  35 DATA DIVISION.
  36
  37 FILE SECTION.
  38
  39 FD PURCHASE-TRANS-FILE
  40
        BLOCK CONTAINS O RECORDS
        RECORD CONTAINS 32 CHARACTERS.
  41
  42
  43 01 PURCHASE-TRANS-REC.
  44
  45
         05 CUST-NUM-IN
                               PIC X(05).
                               PIC X(20).
  46
        05 CUST-NAME-IN
  47
         05 PURCH-AMT-IN
                               PIC 9(05) V99.
  48
  49 FD
        PURCHASE-RPT-FILE
  50
        BLOCK CONTAINS O RECORDS
        RECORD CONTAINS 80 CHARACTERS.
  51
  52
  53 01
       OUTPUT-LINE
                               PIC X(80).
  54
  55
  56 WORKING-STORAGE SECTION.
  57
```

05 RT-DATE PIC X(08). 61

05 FILLER 62

PIC X(13) VALUE SPACES.
PIC X(30) VALUE 'PURCHASE REPORT'.
PIC X(05) VALUE 'PAGE'. 63 05 FILLER 64 05 FILLER

65 05 RT-PG-CTR PIC Z9.

05 FILLER 66 PIC X(12) VALUE SPACES. 67

68 01 COL-HDLINE.

69 70 05 FILLER PIC X(10) VALUE SPACES.

71 05 FILLER PIC X(14) VALUE 'CUSTOMER NO'. 72 05 FILLER PIC X(26) VALUE 'CUSTOMER NAME'.

73 05 FILLER PIC X(30) VALUE

74 'AMOUNT OF PURCHASE'. 75

76 01 DETAIL-LINE.

77

78 05 FILLER PIC X(13) VALUE SPACES.

79 05 DL-CUST-NUM PIC X(05).

80 05 FILLER PIC X(06) VALUE SPACES.

81 05 DL-CUST-NAME PIC X(20).

82 05 FILLER PIC X(15) VALUE SPACES.

PIC ZZ, ZZ9.99. 83 05 DL-PURCH-AMT

84 05 FILLER PIC X(12) VALUE SPACES. 85

86 01 TOTAL-LINE.

87 05 FILLER 88

PIC X(47) VALUE SPACES. 05 FILLER 89 PIC X(08) VALUE 'TOTAL:'.

90 05 TL-PURCH-ACC PIC \$\$,\$\$\$,\$\$9.99.

91 05 FILLER PIC X(12) VALUE SPACES. 92

93 94 01 INDICATORS.

95 96 05 END-OF-FILE PIC X(01) VALUE 'N'. 97 88 EOF VALUE 'Y'.

98 05 CC PIC 9(01).

99 05 MAX-LINES PIC S9(02) VALUE +40 BINARY. 100

101 01 WORKFIELDS.

102 103 05 RUN-DATE.

104 10 RUN-YR PIC 9(02).

105 10 RUN-MTH PIC 9(02). PIC 9(02). 106 10 RUN-DAY

107 108 01 COUNTERS.

109

05 LINE-CTR 110 PIC S9(02) VALUE +40 BINARY.

111 05 PG-CTR PIC S9(02) VALUE +0 PACKED-DECIMAL. 112

113 01 ACCUMULATORS.

114

115 05 PURCH-ACC PIC S9(07) V99 VALUE +0 PACKED-DECIMAL.

```
3
```

```
117 PROCEDURE DIVISION.
118
119 A0000-MAINLINE.
120
121
      PERFORM B1000-INITIALIZE
      PERFORM B2000-PROCESS
122
123
        UNTIL EOF
124
      PERFORM B3000-TERMINATE
125
      STOP RUN.
126
127 B1000-INITIALIZE.
128
130* INVOKED BY THE MAINLINE RTN.
                            THIS MODULE OPENS THE FILES,
131* ACCEPTS THE RUN DATE AND DOES THE PRIME READ.
133
      OPEN INPUT PURCHASE-TRANS-FILE
134
          OUTPUT PURCHASE-RPT-FILE.
135
136
      ACCEPT RUN-DATE FROM DATE
      STRING RUN-MTH '/' RUN-DAY '/' RUN-YR
137
138
        DELIMITED BY SIZE INTO RT-DATE
139
      READ PURCHASE-TRANS-FILE AT END
        SET EOF TO TRUE
140
141
      END-READ.
142
143 B2000-PROCESS.
144
145**********************
146* INVOKED BY THE MAINLINE RTN. THIS MODULE INVOKES THE DETAIL
147* LINE RTN IN ORDER TO SEND A LINE TO THE REPORT. IT ACCUMULATES *
148* THE TOTAL PURCHASE AMOUNTS, THEN IT DOES THE SECONDARY READ.
149**********************************
150
151
      PERFORM C2000-DETAIL-LINE
      ADD PURCH-AMT-IN TO PURCH-ACC
152
153
      READ PURCHASE-TRANS-FILE AT END
        SET EOF TO TRUE
154
      END-READ.
155
156
157 B3000-TERMINATE.
158
160* INVOKED BY THE MAINLINE RTN. THIS MODULE PRINTS FINAL TOTALS
161* AND CLOSES THE FILES.
162*********************************
163
164
      MOVE PURCH-ACC TO TL-PURCH-ACC
      WRITE OUTPUT-LINE FROM TOTAL-LINE
165
166
        AFTER ADVANCING 2 LINES
      CLOSE PURCHASE-TRANS-FILE
167
           PURCHASE-RPT-FILE.
168
169
170 C2000-DETAIL-LINE.
171
THIS MODULE MOVES FIELDS TO THE
173* INVOKED BY B2000-PROCESS.
```

```
Micro Focus COBOL Version 3.0.62 L2.4 revision 003 14-Dec-93 16:30 Page
                                    PURCHRPT.CBL
  174* DETAIL LINE, CHECKS FOR A PAGE OVERFLOW, AND PRINTS THE DETAIL *
  175* LINE.
  176*********************
  177
         ADD 1 TO LINE-CTR
  178
          IF LINE-CTR > MAX-LINES
  179
           PERFORM D2000-HEADINGS
  180
  181
          END-IF
         MOVE CUST-NUM-IN TO DL-CUST-NUM
  182
         MOVE CUST-NAME-IN TO DL-CUST-NAME
  183
         MOVE PURCH-AMT-IN TO DL-PURCH-AMT
  184
  185
         WRITE OUTPUT-LINE FROM DETAIL-LINE
           AFTER ADVANCING CC LINES
  186
         MOVE 1 TO CC.
  187
  188
  189 D2000-HEADINGS.
  190
  192* INVOKED BY C2000-DETAIL-LINE. THIS MODULE PRINTS THE REPORT
  193* TITLES, RE-INITIALIZES THE LINE CTR AND SETS THE CARRIAGE CTRL.*
  194**********************************
  195
  196
         ADD 1 TO PG-CTR
         MOVE PG-CTR TO RT-PG-CTR
  197
  198
         WRITE OUTPUT-LINE FROM REPORT-TITLE-LINE
  199
           AFTER ADVANCING PAGE
         WRITE OUTPUT-LINE FROM COL-HDLINE
  200
  201
           AFTER ADVANCING 3 LINES
         MOVE 1 TO LINE-CTR
  202
         MOVE 2 TO CC.
  203
 Micro Focus COBOL Version 3.0.62
                                L2.4 revision 003
 Copyright (C) 1985,1992 Micro Focus Ltd.
                                          URN AXUPA/ZZ0/29744
                                          REF GNB-043052003A8
* Total Messages:
```

608

1358

\* Data:

Code:

CUSTOMER NO	CUSTOMER NAME	AMOUNT	OF PURCHASE
12345 21456 34111	Susan Smith Tammy Cree Peter Jones		175.23 218.17 2,183.19
		TOTAL:	\$2,576.59

PURCHASE REPORT

PAGE 1

## TEST RUN

01/09/93

CUSTOMER NO	CUSTOMER NAME	AMOUNT OF PURCHASE
12346	Susan Brown	900.00
13345	Thomas Armstrong	1,000.00
13555	James Atre	450.00
14567	Karen Bradley	100.00
14669	Linda Carlson	1,250.76
15678	Joanne Klimbie	837.50
16788	Robert Hardgrave	132.50
17890	Tammy Martin	210.40
23451	Claude Bouffard	901.23
23566	Douglas Clayton	1,245.60
23677	George Cliche	230.00
34566	Adolphus Lewis	457.75
45673	Caroline Revnolds	2,250.00

PURCHASE REPORT

PAGE 1

\$9,965.74

TOTAL:

01/09/93

## PRODUCTION RUN

COBOL I 420-201-90 Section 02

REPORT PROGRAM GUIDELINES

C. LEGENDREC. MARCHAND

#### THE REPORT PROGRAM

#### Typical structural REPORT requirements

- 1. Headings report column
- 2. Detail lines
- 3. Summary lines
- 4. Pagination
- 5. Totals
- 1. <u>HEADINGS</u>
- i) Report Headings
  - appear at the top of each page of the report
  - are usually centered on each page
  - consist of a single line or two
  - are simple and descriptive

#### Contents

- title of report declared as a literal in Working-Storage Section

THE REPORT PROGRAM - PAGE 1

#### ii) <u>Column Headings</u>

- appear at the top of columns of data
- describe accurately the information below them
- well spaced for readability
- aligned with the data in the columns
  - a) centered for fixed length fields
  - b) left-justified for variable non-numeric fields
  - c) right-justified for numeric fields

#### 2. Detail lines

- generally indicative or constant information is placed on the left and variable information on the right
- numeric data is right-justified
- non-numeric data is left justified
- detail information is edited before printing
- blank lines are inserted between report and column headings, and between column headings and summary lines

#### 3. Summary lines

- totals of a group of records
- generally indicative or constant information is placed on the left and variable information on the right
- numeric data is right-justified
- non-numeric data is left-justified
- summary information is edited before printing
- blank lines are inserted between report and column headings, and between column headings and summary lines
- if the report contains both summary and detail lines then
  - . detail lines may be group indicated (key field(s) printed only when there is a change in group)
  - . blank lines are inserted between detail and summary lines

THE REPORT PROGRAM - PAGE 2

#### 4. Pagination

- titles are produced at start of report and whenever the maximum number of lines per page is reached
- line counter is required (declared as a variable in the Working-Storage Section)
- in Summary report, often a change in group will also force a new page

#### 5. Totals

- totals are the result of the summation of detail information in the columns
- totals are often printed within the same column as the data which is being summed; if so column width must be large enough to include the total field
- totals may be printed outside the column of detail information; however, an indicative literal should precede them
- totals are edited prior to printing

#### REPORT TYPES

- 1. Detail reports
- 2. Summary or Control break reports
- 3. Exception reports
- 4. Selection/Extraction reports
- 5. Classification reports

#### 1. <u>Detail report</u>

Each record in the input file produces one or more lines of output on the report.

#### Report recipient:

Lower management or clerical staff

#### THE REPORT PROGRAM - PAGE 3

#### Report contents:

Information reflecting the day-to-day operations - the operating status of the organization.

#### 2. <u>Summary or Control Break reports</u>

The information is condensed. One or more lines of output is produced for <u>each group</u> of records in the input file. Accumulators (totals and subtotals) are printed.

#### Report recipient:

Lower, middle and higher management

#### Report contents :

Information that presents the overall picture of the organization, dept. etc.

#### 3. Exception reports

One line or more of output is produced for each record that contains information that is "other than normal".

#### Report recipient :

Person requiring specific information to make decisions or to take specific actions

#### Report contents :

The required information at minimum cost and maximum usability.

#### **EXAMPLES**

A paycheck containing an excessive amount

An item in inventory whose quantity has fallen below its reorder point

#### 4. <u>Selection/Extraction reports</u>

One or more lines of output are produced from each input record that satisfies predetermined criteria.

#### Report recipient:

Lower management or clerical staff
THE REPORT PROGRAM - PAGE 4

#### Report contents:

Similar to detail report, but list only those records which meet specified criteria - required information at minimum cost and maximum usability

#### 5. Classification reports

Each record is classified according to specific criteria and then printed. One or more lines of output is produced for each input record read. The information must be sorted either on one or more groups prior to its being printed.

#### Report recipient:

Lower management or clerical staff

#### Report contents:

Similar to detail report, but breaks the report into two or more groups for processing.

#### **EXAMPLES**

A list by job title or years of experience

A list of grocery store sales by food items- perishable and non-perishable and non-food items

### FILE DESCRIPTION FORM

FILE DEF	INITION:			٠				
INT EXT	NAME: PERNAL							ME/DDNAME)
DSN	IAME				(M	AINFRA	ME ON	тт,
MEDIU	M: MICR	O DISK	INPUT	STREA	M	MAINFR	AME D	OISK
		NARY	MAINFRA	V V	HYSICA SAM-ES SAM-KS SAM-RR ARTITI	DS DS DS	ENTIA	AL
PEGOD	D MANES							
RECOR RECOR	D NAME: D LENGTH: D FORMAT:	FIXED VARIABLE	BLOCKS	-				
	RY KEY:				LENGTH LENGTH	:	KEY	POSITION:
FIELD DE	FINITION	(S):						
COLUMNS		FIELD NA	ME.		TY	PE/PIC	TURE	SIZE/BYTES
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					İ	1				İ		Ī								İ						İ			İ	1					Ī	İ	İ	Ī					İ		-					Ī					Ī				İ	Ī	I			İ			L	I	1	-			+		
2					I																																L					L			-									L	L						1			1			_	-	1	communication			-	L	
3			1	1		1				L	-	1	-	-	1				-	1	_					1			_	1	_	-			ļ.	-	-	+	-	_		-	1						-	-	4			L	ļ	1			-	ļ	-			+			-	ļ	-	-			-	-	
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## SPACING ART

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