Homework #3

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Assignment: Page 100 Debugging Exercises #1-2 Programming Exercises #1-3

**Debugging Exercises:**

**#1**

**Original Code:**

DATA DIVISION.

FILE-SECTION.

FD SALES-FILE.

01 INPUT.

05 TRANS.NO PICTURE 9999.

05 TRANSACTION-NAME PICTURE X20.

05 ADDRESS

10 NUMBER PICTURE XXXX.

10 STREET PICTURE A(15).

10 CITY PICTURE AAA.

05 CREDIT-RATING PICTURE XX.

10 CREDIT-CODE PICTURE X.

10 LIMIT OF PURCHASE PICTURE X.

05 UNIT-PRICE PICTURE 99.99.

05 QTY-PURCHASED PICTURE 9(5).

05 DISCOUNT-% PICTURE V99.

**Correct Code:**

DATA DIVISION.

FILE-SECTION.

FD SALES-FILE.

01 INPUT-RECORD.

05 TRANS-NO-IN PICTURE 9(4).

05 TRANSACTION-NAME-IN PICTURE X(20).

05 ADDRESS-IN

10 NUMBER-IN PICTURE X(4).

10 STREET -IN PICTURE X(15).

10 CITY-IN PICTURE X(3).

05 CREDIT-RATING-IN

10 CREDIT-CODE-IN PICTURE X.

10 LIMIT OF PURCHASE-IN PICTURE X.

05 UNIT-PRICE-IN PICTURE 99V9.

05 QTY-PURCHASED-IN PICTURE 9(5).

05 DISCOUNT-PERCENT-IN PICTURE V99.

**#2**

1. Correct

05 WS-TOTAL PIC 9(5).

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MOVE SPACES TO WS-TOTAL.

1. Correct

05 CODE-IN PIC X(5) VALUE ZEROS.

1. Not Correct

**WRONG**

05 TAX-RATE PIC 99V99 VALUE 0850.

**CORRECT**

05 TAX-RATE PIC 99V99 VALUE 08.50.

**Programming Exercises:**

#1

**Files:**

* EMPLOYEE-DATA
* PAYROLL-LISTING

**Records:**

* 01 EMPLOYEE-RECORD
* 01 PRINT-REC

**Fields:**

* 05 EMPLOYEE-NAME-IN PICTURE X(20)
* 05 HOURS-WORKED-IN PICTURE 9(2)
* 05 HOURLY-RATE-IN PICTURE 9V99
* 05 PICTURE X(20)
* 05 NAME-OUT PICTURE X(20)
* 05 PICTURE X(10)
* 05 HOURS-OUT PICTURE 9(2)
* 05 PICTURE X(8)
* 05 RATE-OUT PICTURE 9.99
* 05 PICTURE X(6)
* 05 WEEKLY-WAGES-OUT PICTURE 999.99
* 01 ARE-THERE-MORE-RECORDS PICTURE XXX VALUE ‘YES’

**Numeric Literals:**

* 05 HOURS-WORKED-IN PICTURE 9(2)
* 05 HOURLY-RATE-IN PICTURE 9V99
* 05 HOURS-OUT PICTURE 9(2)
* 05 RATE-OUT PICTURE 9.99
* 05 WEEKLY-WAGES-OUT PICTURE 999.99

**Nonnumeric Literals:**

* 05 EMPLOYEE-NAME-IN PICTURE X(20)
* 05 PICTURE X(20)
* 05 NAME-OUT PICTURE X(20)
* 05 PICTURE X(10)
* 05 PICTURE X(8)
* 05 PICTURE X(6)
* 01 ARE-THERE-MORE-RECORDS PICTURE XXX VALUE ‘YES’

**Figurative Constants:**

* MOVE SPACES TO PRINT-REC

#2

**Files:**

* SALES-FILE
* PRINT-FILE

**Records:**

* 01 SALES-RECORD
* 01 PRINT-REC

**Fields:**

* 05 NAME-IN PICTURE X(15)
* 05 AMOUNT-OF-SALES-IN PICTURE 999V99
* 05 PICTURE X(20)
* 05 NAME-OUT PICTURE X(15)
* 05 PICTURE X(20)
* 05 AMT-COMMISSION-OUT PICTURE 99.99
* 05 PICTURE X(72)
* 01 ARE-THERE-MORE-RECORDS PICTURE XXX VALUE ‘YES’

**Numeric Literals:**

* 05 AMOUNT-OF-SALES-IN PICTURE 999V99
* 05 AMT-COMMISSION-OUT PICTURE 99.99

**Nonnumeric Literals:**

* 05 NAME-IN PICTURE X(15)
* 05 PICTURE X(20)
* 05 NAME-OUT PICTURE X(15)
* 05 PICTURE X(20)
* 05 PICTURE X(72)
* 01 ARE-THERE-MORE-RECORDS PICTURE XXX VALUE ‘YES’

**Figurative Constants:**

* MOVE SPACES TO PRINT-REC

#3

**Files:**

* PAYROLL-IN
* PAYROLL-OUT

**Records:**

* 01 PAYROLL-REC
* 01 RECORD-OUT

**Fields:**

* 05 EMPLOYEE-NUMBER-IN PICTURE 9(5)
* 05 EMPLOYEE-NAME-IN PICTURE X(20)
* 05 LOCATION-CODE-IN PICTURE 9999
* 05 ANNUAL-SALARY-IN PICTURE 9(6)
* 05 EMPLOYEE-NUMBER-OUT PICTURE 9(5)
* 05 EMPLOYEE NAME-OUT PICTURE X(20)
* 05 ANNUAL-SALARY-OUT PICTURE 9(6)
* 01 ARE-THERE-MORE-RECORDS PICTURE XXX VALUE ‘YES’

**Numeric Literals:**

* 05 EMPLOYEE-NUMBER-IN PICTURE 9(5)
* 05 LOCATION-CODE-IN PICTURE 9999
* 05 ANNUAL-SALARY-IN PICTURE 9(6)
* 05 EMPLOYEE-NUMBER-OUT PICTURE 9(5)
* 05 ANNUAL-SALARY-OUT PICTURE 9(6)

**Nonnumeric Literals:**

* 05 EMPLOYEE-NAME-IN PICTURE X(20)
* 05 EMPLOYEE NAME-OUT PICTURE X(20)
* 01 ARE-THERE-MORE-RECORDS PICTURE XXX VALUE ‘YES’

**Figurative Constants:**

* No Figurative Constants