

Workshop 5.3.2 - Create FAVIN Test Data Records

Create three data records for the FAVRPT program, based on the record layout shown below

1. Edit LEARN.FAVIN and delete all of the existing content.
2. **Add three records** - carefully matching the field definitions in the record layout to the bytes in the file
 - Line up the DATA DIVISION variables with the LEARN.FAVIN data record data **Byte-for-Byte** →
 - The use of split screen editing will make this easier
3. When you're sure that your test data works with FAVRPT, Save the file, Compile/Link-Edit and Debug your program.
4. Send me the SPOOL file output

```
FAVRPT.cbl
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+
01  BLOCK CONTAINS 0 RECORDS
    DATA RECORD IS FAVIN-REC.
    FAVIN-REC.
      05 ARTIST-NAME          PIC X(30).
      05 NUMBER-OF-MUSICIANS  PIC 9(02).
      05 MUSICAL-GENRE        PIC X(12).
      05 COST.
        10 CD-COST           PIC 9(3)V99.
        10 SHIPPING-COST     PIC 9(2)V99.
        10 TAX               PIC 9(2)V99.
      05 BAND-IS-STILL-TOGETHER PIC X(1).
    FD FAVOIT
```

Input Data

```
DDS0001.LEARN.FAVIN
BERLIN PHILHARMONIC          99Classical  1111122223333Y
Bela Fleck & the Flecktones  03Hybrid Jazz 1111122223333Y
SNARKY LETTUCE              18Jazz       1111122223333Y
|||||||1|||||||2|||||||3|||||||4|||||||5|||||||
```

If you add the ||||||| characters, remove them before running the program

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Answer :

```
COBUCLG.jcl  COBUCLD.jcl  FAVRPT.cbl  USER35.USER35G.JOB00195.D0000107....  USER35.LEARN.FAVIN
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+
USER35 OTHMAN EMARA          15Blues      0001000200015N
The Rockers                  07Rock      0005000300016N
The Rappers                  13Rap       0007000400017Y
The poppers                  22Pop       0008000500018Y
The Jazzers                  33Jazz      0009000600019Y
```

COBUCLG.jcl						
COBUCLD.jcl						
FAVRPT.cbl						
USER35.USER35G.JOB00195.D0000107....						
USER35.LEARN.FAVIN						
-----1-----2-----3-----4-----5-----6-----7-- -----						
Musical Bands Report -FAVRPT						
USER35 OTHMAN EMARA						
15Blues		0001000200015N				
The Rockers		07Rock 0005000300016N				
The Rappers		13Rap 0007000400017Y				
The poppers		22Pop 0008000500018Y				
The Jazzers		33Jazz 0009000600019Y				

IDENTIFICATION DIVISION.

PROGRAM-ID. FAVRPT.

***** This MODULE Workshop 5.3.1b - Create new COBOL program

***** THAT USES A FILE READ

ENVIRONMENT DIVISION.

INPUT-OUTPUT SECTION.

FILE-CONTROL.

SELECT FAVIN1 ASSIGN TO FAVIN
FILE STATUS IS FAVIN-F-STATUS.

SELECT OUT2 ASSIGN TO FAVRPT.

DATA DIVISION.

FILE SECTION.

FD FAVIN1

RECORDING MODE IS F

LABEL RECORDS ARE STANDARD

RECORD CONTAINS 80 CHARACTERS

BLOCK CONTAINS 0 RECORDS

DATA RECORD IS FAVIN-REC.

01 FAVIN-REC.

05 ARTIST-NAME PIC X(30).

05 NUMBER-OF-MUSICIAN PIC 9(02).

05 MUSICAL-GENRE PIC X(12).

05 COST.

10 CD-COST PIC 9(3)V99.

10 SHIPPING-COST PIC 9(2)V99.

10 TAX PIC 9(2)V99.

05 BAND-IS-STILL-TOGETHER PIC X(1).

```

FD OUT2
  RECORDING MODE IS F
  LABEL RECORDS ARE STANDARD
  RECORD CONTAINS 80 CHARACTERS
  BLOCK CONTAINS 0 RECORDS
  DATA RECORD IS FAVOUT-REC.

```

```
01 FAVOUT-REC.
```

```

05 ARTIST-NAME-OUT          PIC X(30).
05 NUMBER-OF-MUSICIAN-OUT   PIC 9(02).
05 MUSICAL-GENRE-OUT        PIC X(12).
05 COST-OUT.
    10 CD-COST-OUT           PIC 9(3)V99.
    10 SHIPPING-COST-OUT     PIC 9(2)V99.
    10 TAX-OUT               PIC 9(2)V99.
05 BAND-IS-STILL-TOGETHER-OUT PIC X(1).
05 FILLER                   PIC X(20) VALUE SPACES.

```

```
WORKING-STORAGE SECTION.
```

```
01 HEADER-1.
```

```

05 FILLER                   PIC X(30) VALUE SPACES.
05 FILLER PIC X(30) VALUE 'Musical Bands Report -FAVRPT'.
05 FILLER                   PIC X(20) VALUE SPACES.

```

```
01 DEBUG-1.
```

```

05 FILLER PIC X(5) VALUE 'DEBUG' JUSTIFIED RIGHT.
05 FILLER PIC X(13) VALUE ' file status:'.
05 FAVIN-F-STATUS          PIC X(2).
05 FILLER                   PIC X(4) VALUE ' LR:'.
05 LASTREC                 PIC X    VALUE SPACES.
    88 STELL-THERE-REC      VALUE ' '.
    88 NO-MORE-RECORDS      VALUE 'Y'.
05 DEBUG-MSG               PIC X(30).

```

```
77 COMPUTED-COST PIC 9(5).99 .
```

```
PROCEDURE DIVISION.
```

```
OPEN INPUT FAVIN1.
```

```
OPEN OUTPUT OUT2.
```

```
WRITE FAVOUT-REC FROM HEADER-1.
```

```
MOVE SPACES TO FAVOUT-REC.
```

```
WRITE FAVOUT-REC AFTER ADVANCING 1 LINES.
```

```
* Prime Read
```

```
PERFORM READ-RECORD .
```

```
PERFORM UNTIL LASTREC = 'Y' OR NO-MORE-RECORDS
```

```
    PERFORM PROCESS-RECORDS
```

```
    PERFORM WRITE-RECORD
```

```
    PERFORM READ-RECORD
```

```

        END-PERFORM
    PERFORM CLOSE-FILES
    STOP RUN.
READ-RECORD.
    READ FAVIN1
*       AT END    MOVE 'Y' TO LASTREC
        AT END    PERFORM END-OF-FILE
        NOT AT END PERFORM PROCESS-RECORDS
    END-READ.
PROCESS-RECORDS .
*       MOVE '    PROCESS-RECORDS . ' TO DEBUG-MSG .
*       WRITE FAVOUT-REC FROM DEBUG-1.
        COMPUTE COMPUTED-COST = (CD-COST + SHIPPING-COST + TAX).
WRITE-RECORD .
*       MOVE '    WRITE-RECORD . ' TO DEBUG-MSG .
*       WRITE FAVOUT-REC FROM DEBUG-1.
        MOVE FAVIN-REC TO FAVOUT-REC.
        WRITE FAVOUT-REC .
CLOSE-FILES.
*       MOVE '    CLOSE-FILES ' TO DEBUG-MSG .
*       WRITE FAVOUT-REC FROM DEBUG-1.
        CLOSE FAVIN1.
        CLOSE OUT2.
END-OF-FILE.
        MOVE 'Y' TO LASTREC .
*       MOVE '    END-OF-FILE ' TO DEBUG-MSG .
*       WRITE FAVOUT-REC FROM DEBUG-1.

```