

- a. Create order header table with fields orderno, orderdate, customer name... Order number can be key. ...

```
Columns . . . : 1 100 Browse GOP2LIB/QSQLSRC
SEU==> ORDERHDR1
FMT ** ..... 1 ..... 2 ..... 3 ..... 4 ..... 5 ..... 6 ..... 7 ..... 8 ..... 9 ..... 0
***** Beginning of data *****
0001.00 CREATE OR REPLACE TABLE ORDERHDR1( 250126
0002.00 ORDERNO NUMERIC(3) NOT NULL WITH DEFAULT, 250125
0004.00 ORDERDATE DATE NOT NULL WITH DEFAULT CURRENT DATE, 250125
0005.00 CUSTNAME VARCHAR(10) NOT NULL WITH DEFAULT, 250126
0006.00 PRIMARY KEY(ORDERNO)); 250126
***** End of data *****
```

```
Position to line . . . . .
.....1.....2.....3
ORDERNO ORDERDATE CUSTNAME
101 05/09/23 RAVI
102 06/09/23 PAVI
103 06/10/23 KAVI
104 07/10/23 GORI
105 07/11/23 GANGA
106 08/11/23 SHYAM
***** End of data *****
```

- b. Create order detail table with order no, item no, item qty and per unit item price as fields.

```
Columns . . . : 1 100 Browse GOP2LIB/QSQLSRC
SEU==> ODRDTLTAB
FMT ** ..... 1 ..... 2 ..... 3 ..... 4 ..... 5 ..... 6 ..... 7 ..... 8 ..... 9 ..... 0
***** Beginning of data *****
0001.00 CREATE OR REPLACE TABLE ODRDTLTAB( 250125
0002.00 ORDERNO NUMERIC(3) NOT NULL WITH DEFAULT, 250125
0003.00 ITEMNO NUMERIC(3) NOT NULL WITH DEFAULT, 250125
0004.00 QTY NUMERIC(5,2) NOT NULL WITH DEFAULT, 250125
0005.00 PRICEPITEM NUMERIC(5,2) NOT NULL WITH DEFAULT); 250125
***** End of data *****
```

```
Position to line . . . . .
Line .....1.....2.....3.....
ORDERNO ITEMNO QTY PRICEPITEM
000001 101 1 5.00 5.00
000002 101 2 6.00 5.00
000003 101 3 10.00 7.00
000004 102 4 10.00 7.00
000005 102 5 11.00 7.00
000006 101 4 10.00 7.00
000007 103 1 5.00 5.00
000008 103 2 6.00 5.00
000009 104 2 6.00 5.00
000010 105 4 10.00 7.00
000011 106 4 10.00 7.00
***** End of report *****
```

- c. Create billing detail table with billno (format :BL_ orderno), itemno, item quantity and total line price as fields.

```
Columns . . . : 1 100 Browse GOP2LIB/QSQLSRC
SEU==> BILLDTLTB1
FMT ** ..... 1 ..... 2 ..... 3 ..... 4 ..... 5 ..... 6 ..... 7 ..... 8 ..... 9 ..... 0
***** Beginning of data *****
0001.00 CREATE OR REPLACE TABLE BILLDTLTB1( 250126
0002.00 BILLNO VARCHAR(6) NOT NULL WITH DEFAULT, 250126
0004.00 ITEMNO NUMERIC(3) NOT NULL WITH DEFAULT, 250126
0005.00 QTY NUMERIC(5,2) NOT NULL WITH DEFAULT, 250126
0005.01 TOT_LINE_PRICE NUMERIC(5,2) NOT NULL WITH DEFAULT); 250126
***** End of data *****
```

- d. Create billing header table with bill no, total bill value and customer name as fields

```
Columns . . . : 1 100 Browse GOP2LIB/QSQLSRC
SEU==> BILLHRTB1
FMT ** ..... 1 ..... 2 ..... 3 ..... 4 ..... 5 ..... 6 ..... 7 ..... 8 ..... 9 ..... 0
***** Beginning of data *****
0001.00 CREATE OR REPLACE TABLE BILLHRTB1( 250126
0002.00 BILLNO VARCHAR(6) NOT NULL WITH DEFAULT, 250126
0002.01 ORDERNO NUMERIC(3) NOT NULL WITH DEFAULT, 250126
0005.00 TOT_VAL NUMERIC(6,2) NOT NULL WITH DEFAULT, 250126
0005.01 CUSTNAME VARCHAR(10) NOT NULL WITH DEFAULT, 250126
0006.00 PRIMARY KEY(BILLNO); 250126
***** End of data *****
```

- e. Create sql rpgle program to take order no as input and generate billing header and detail records for this

```
DEMO
File Edit View Tools Help
Clear Erase Attn Sysreq Help
Columns . . . : 6 80 Browse GOP2LIB/QSQLSRC
SEU==> CLASSTEST1
FMT D *****ETDFrom***To/Lt***IDC,Keywords*****
***** Beginning of data *****
0000.01 DORDER S 3 0 250126
0000.02 DORDER1 S 3 0 250126
0000.03 DTOTAL S 6 2 250125
0000.04 DORD S 6 250126
0000.05 DNAME S 10 250126
0000.06 DINO S 3 0 250126
0000.07 DQTY S 5 2 250126
0000.08 DPRICEF S 5 2 250126
0000.09 *----- 250126
0000.10 C *ENTRY PLIST 250126
0000.11 C PARM ORDER 250126
0000.12 *----- 250126
0000.13 ORD = 'BL_' + %CHAR(ORDER); 250126
0000.14 250126
0001.00 EXEC SQL 250125
0002.00 SET OPTION COMMIT = *NONE; 250125
0002.01 250126
0002.02 EXEC SQL 250126
0002.03 SELECT ITEMNO,QTY,SUM(QTY*PRICEITEM) INTO 250126
F3=Exit F5=Refresh F6=Retrieve F10=Cursor F11=Toggle F12=Cancel
F14=Repeat find F24=More keys
(C) COPYRIGHT IBM CORP. 1981, 2013.
```

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DEMO
File Edit View Tools Help
Columns . . . : 6 80 Browse GOPALIB/QRFGLESRC
SEU==> CLASSTESTE
FMT ** ... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
0002.04 :INO,:QTY,:TOTAL FROM ODRDTLTAB WHERE ORDERNO = :ORDER 250126
0002.05 GROUP BY ITEMNO,QTY; 250126
0002.06 250126
0003.00 EXEC SQL 250126
0003.01 INSERT INTO BILLDTLTB1(BILLNO,ITEMNO,QTY,TOT_LINE_PRICE) 250126
0003.02 SELECT :ORD,ITEMNO,QTY,SUM(QTY*PRICEPITEM) FROM ODRDTLTAB 250126
0003.03 WHERE ORDERNO = :ORDER GROUP BY OREDRNO,ITEMNO,QTY; 250126
0003.04 250126
0003.05 EXEC SQL 250126
0003.06 UPDATE BILLDTLTB1 SET ITEMNO=:INO,QTY=:QTY, 250126
0003.07 TOT_LINE_PRICE=:TOTAL WHERE BILLNO=:ORD; 250126
0026.00 250125
0026.01 EXEC SQL 250126
0026.02 INSERT INTO BILLHDTB1(BILLNO,TOT_VAL) 250126
0026.03 SELECT BILLNO,SUM(TOT_LINE_PRICE) FROM BILLDTLTB1 250126
0026.04 GROUP BY BILLNO; 250126
0026.05 250126
0026.06 EXEC SQL 250126
0026.07 UPDATE BILLHDTB1 SET ORDERNO = :ORDER,CUSTNAME=(SELECT 250126
0026.08 CUSTNAME FROM ORDERHDTB1 WHERE ORDERNO = :ORDER); 250126

F3=Exit F5=Refresh F8=Retrieve F10=Cursor F11=Toggle F12=Cancel
F14=Repeat find F24=More keys

```

```

0026.09 250126
0027.00 *INLR = '1'; 250125
***** End of data *****

```

```

Position to line . . . . .
....+....1....+....2....+....3....+....
BILLNO  ITEMNO      QTY    TOT_LINE_PRICE
BL_101   1         5.00      25.00
BL_101   1         5.00      25.00
BL_101   1         5.00      25.00
BL_101   1         5.00      25.00
***** End of data *****

```

```

Position to line . . . . .
....+....1....+....2....+....3....+....
BILLNO  ORDERNO    TOT_VAL  CUSTNAME
BL_101   101        100.00  RAVI
***** End of data *****

```

- f. Create one more sql rpgle program to take order no as input and generate bill (report) for that order no, header should have customer name and bill no, detail should have item details and total price per line(from bill detail) and footer can have total billing amount

```

Columns . . . : 1 121                                Design Report                                GOP2LIB/QDDSSRC
RLU==>
BASE ..... 1 ..... 2 ..... 3 ..... 4 ..... 5 ..... 6 ..... 7 ..... 8 ..... 9 ..... 0 ..... 1 ..... 2
----- Start of Page 001 -----
FLD1      <.....> <.....>                                <.....> <.....>
HEADER    CUSTOMER_NAME: XXXXXXXXXX                      BILLNO: XXXXXX
FLD1      <.....> <.>                                <.....>
HEAD      ITEMNO          QTY          TOT_LINE_PRICE
FLD1      <.>          <...>          <...>
DETAILS   999          99999          99999
FLD1      <.....>
FHEAD     TOT_VAL
FLD1      <.....>
FOOTER    999999
----- End of Report -----

```

```

DEMO
File Edit View Tools Help
Clear Erase Attn Sysreq Help
Columns . . . : 6 80                                Browse                                GOP2LIB/QRPGLESRC
SEU==>
FMT F FFilename+IPEASPRlen+LKlen+AIDevice+.Keywords+++++
***** Beginning of data *****
0001.00 FCLSTEST O E PRINTER OFLIND(*IN99) 250126
0002.00 DORDER S 3 0 250126
0002.01 DINO S 3 0 250126
0002.02 DQTY S 5 2 250126
0002.03 DTOTAL S 5 2 250126
0003.00 DNAME S 10 250125
0003.01 DBILL S 6 250126
0003.02 DSQLSTR S 1500 250125
0003.03 DTOT S 6 2 250126
0004.00 *----- 250125
0005.00 C *ENTRY PLIST 250125
0006.00 C PARM ORDER 250126
0007.00 *----- 250125
0008.00 EXEC SQL 250125
0009.00 SET OPTION COMMIT = *NONE; 250125
0016.00 *----- 250125
0017.01 SQLSTR = 'SELECT CUSTNAME, BILLNO + 250126
0017.02 FROM BILLHDRTB1 WHERE ORDERNO = '+''+%CHAR(ORDER)+'''; 250126
0017.03 Exec SQL 250125

F3=Exit F5=Refresh F9=Retrieve F10=Cursor F11=Toggle F12=Cancel
F16=Repeat find F24=More keys
(C) COPYRIGHT IBM CORP. 1981, 2013.
Online 2,9

```

```

DEMO
File Edit View Tools Help
Clear Erase Attn Sysreq Help
Columns . . . : 6 80                                Browse                                GOP2LIB/QRPGLESRC
SEU==>
FMT ** ..... 1 ..... 2 ..... 3 ..... 4 ..... 5 ..... 6 ..... 7 ..... 8
0017.04 Prepare S1 From :SQLSTR; 250125
0017.06 Exec SQL 250125
0017.07 Declare C2 Cursor For S1; 250125
0017.08 Exec SQL 250125
0017.09 Open C2; 250125
0017.11 Exec SQL 250125
0017.12 Fetch C2 Into :NAME,:BILL; 250126
0017.14 Exec SQL 250125
0017.15 Close C2; 250125
0020.00 250125
0020.02 CUSTNAME=NAME; 250126
0020.03 BILLNO=BILL; 250126
0021.00 C WRITE HEADER 250125
0021.01 C WRITE HEAD 250126
0022.00 250125
0023.00 EXEC SQL 250125
0024.00 DECLARE C1 CURSOR FOR SELECT ITEMNO,QTY,TOT_LINE_PRICE 250126
0024.01 FROM BILLDTLFB1 WHERE BILLNO = :BILL; 250126
0025.00 250125
0026.00 EXEC SQL 250125

F3=Exit F5=Refresh F9=Retrieve F10=Cursor F11=Toggle F12=Cancel
F16=Repeat find F24=More keys
Online 2,9

```

```
DEMO
File Edit View Tools Help
Clear Erase Attn Sysreq Help
Columns . . . : 6 80 Browse GOP2LIB/QRPGLESRC
SEU==> CLASSTESTF
FMT ** ... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
0027.00 OPEN C1; 250125
0028.00 250125
0029.00 EXEC SQL 250125
0030.00 FETCH C1 INTO :INO,:QTY,:TOTAL; 250126
0031.00 250125
0031.01 DOW SQLCODE <> 100; 250125
0031.02 250125
0031.03 IF *IN99 = '1'; 250125
0031.04 C WRITE HEADER 250125
0031.05 C WRITE HEAD 250126
0031.06 *IN99 = '0'; 250125
0031.07 ENDIF; 250125
0031.08 250125
0032.00 QTY = QTY; 250126
0033.00 ITEMNO = INO; 250125
0034.00 TOT_L00001 = TOTAL; 250126
0034.01 C WRITE DETAILS 250126
0035.00 250125
0035.14 250125
0035.15 EXEC SQL 250125
F3=Exit F5=Refresh F9=Retrieve F10=Cursor F11=Toggle F12=Cancel
F16=Repeat find F24=More keys
```

Online 2,9

31°C Mostly sunny

Search

ENG IN

12:01 27-01-2025

```
DEMO
File Edit View Tools Help
Clear Erase Attn Sysreq Help
Columns . . . : 6 80 Browse GOP2LIB/QRPGLESRC
SEU==> CLASSTESTF
FMT ** ... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
0035.16 FETCH C1 INTO :INO,:QTY,:TOTAL; 250126
0035.17 250125
0036.00 ENDDO; 250125
0036.01 EXEC SQL 250125
0036.02 CLOSE C1; 250125
0037.00 *----- 250125
0037.01 SQLSTR = 'SELECT TOT_VAL FROM + 250126
0037.02 BILLHDRTB1 WHERE ORDERNO = '+'*'+%CHAR(ORDER)+'*'; 250126
0037.04 Exec SQL 250125
0037.05 Prepare S2 From :SQLSTR; 250125
0037.06 Exec SQL 250125
0037.07 Declare C3 Cursor For S2; 250125
0037.08 Exec SQL 250125
0037.09 Open C3; 250125
0037.10 Exec SQL 250125
0037.11 Fetch C3 INTO :TOT; 250125
0037.12 Exec SQL 250125
0037.13 Close C3; 250125
0038.00 TOT_VAL = TOT; 250126
0038.01 C WRITE FHEAD 250126
F3=Exit F5=Refresh F9=Retrieve F10=Cursor F11=Toggle F12=Cancel
F16=Repeat find F24=More keys
```

Online 2,9

31°C Mostly sunny

Search

ENG IN

12:01 27-01-2025

```
FMT C CL0N01Factor1+++++Opcode&ExtFactor2+++++Result+++++Len++D+HiLoEq...
0039.00 C WRITE FOOTER 250125
0040.00 C EVAL *INLR = '1' 250125
***** End of data *****
```

Display Spooled File

File : CLSTEST

Page/Line 1/1

Control : _____

Columns 1 - 130

Find : _____

*...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...8...+...9...+...0...+...1...+...2...+...3

CUSTOMER_NAME: RAVI

BILLNO: BL_101

ITEMNO

QTY

TOT_LINE_PRICE

001

00500

02500

001

00500

02500

001

00500

02500

001

00500

02500

TOT_VAL

010000

