```sql
create database Book_dealer
use Book_dealer


CREATE TABLE AUTHORS(

    AUTHOR_ID INT,

    A_NAME VARCHAR(10),

    CITY VARCHAR(10),

    COUNTRY VARCHAR(10),

    PRIMARY KEY(AUTHOR_ID)

    );


CREATE TABLE PUBLISHERS(

    PUBLISHER_ID INT,

    P_NAME VARCHAR(10),

    CITY VARCHAR(20),

    COUNTRY VARCHAR(10),

    PRIMARY KEY(PUBLISHER_ID)

    );


CREATE TABLE CATEGORY(

    CATEGORY_ID INT,

    DESCRIPTIONS VARCHAR(10),

    PRIMARY KEY(CATEGORY_ID)

    );


CREATE TABLE CATALOG(

    BOOK_ID INT,

    TITLE VARCHAR(10),

    AUTHOR_ID INT,

    PUBLISHER_ID INT,
```

```sql
    CATEGORY_ID INT,

    P_YEAR INT,

    PRICE INT,

    PRIMARY KEY(BOOK_ID),

    FOREIGN KEY(AUTHOR_ID) REFERENCES AUTHORS(AUTHOR_ID),

    FOREIGN KEY(PUBLISHER_ID) REFERENCES PUBLISHERS(PUBLISHER_ID),

    FOREIGN KEY(CATEGORY_ID) REFERENCES CATEGORY(CATEGORY_ID)

    );


CREATE TABLE ORDER_DETAILS(

    ORDER_NO INT,

    BOOK_ID INT,

    QTY INT,

    PRIMARY KEY(ORDER_NO),

    FOREIGN KEY (BOOK_ID) REFERENCES CATALOG(BOOK_ID)

    );


INSERT INTO AUTHORS VALUES(10,'SAM','BLORE','INDIA');

INSERT INTO AUTHORS VALUES(20,'VARAD','COORG','INDIA');

INSERT INTO AUTHORS VALUES(30,'OSHIKA','CA','USA');

INSERT INTO AUTHORS VALUES(40,'SOUNDARYA','SPAIN','BARCELONA');

INSERT INTO AUTHORS VALUES(50,'VIVEK','DELHI','INDIA');

SELECT * FROM AUTHORS;


INSERT INTO PUBLISHERS VALUES(1,'PHI','NY','USA');

INSERT INTO PUBLISHERS VALUES(2,'EEE','LA','USA');

INSERT INTO PUBLISHERS VALUES(3,'SWAPNA','','INDIA');

INSERT INTO PUBLISHERS VALUES(4,'MGH','NY','USA');

INSERT INTO PUBLISHERS VALUES(5,'PEARSON','DELHI','INDIA');

SELECT * FROM PUBLISHERS;
```

```sql
INSERT INTO CATEGORY VALUES(11,'CS');

INSERT INTO CATEGORY VALUES(22,'EC');

INSERT INTO CATEGORY VALUES(33,'OS');

INSERT INTO CATEGORY VALUES(44,'C++');

INSERT INTO CATEGORY VALUES(55,'DBMS');

SELECT * FROM CATEGORY;


INSERT INTO CATALOG VALUES(111,'BASICS',50,2,11,2003,200);

INSERT INTO CATALOG VALUES(222,'PROG',40,5,44,1999,500);

INSERT INTO CATALOG VALUES(333,'MP',50,1,11,2009,900);

INSERT INTO CATALOG VALUES(444,'CIRCUITS',50,2,22,1997,300);

INSERT INTO CATALOG VALUES(555,'DATA',30,3,55,2005,600);

SELECT * FROM CATALOG;


INSERT INTO ORDER_DETAILS VALUES(123,222,100);

INSERT INTO ORDER_DETAILS VALUES(231,111,150);

INSERT INTO ORDER_DETAILS VALUES(143,333,90);

INSERT INTO ORDER_DETAILS VALUES(156,555,200);

INSERT INTO ORDER_DETAILS VALUES(218,444,70);

SELECT * FROM ORDER_DETAILS;


SELECT A.A_NAME,C.TITLE,C.PRICE FROM AUTHORS A,CATALOG C WHERE
C.AUTHOR_ID=A.AUTHOR_ID AND C.P_YEAR>=2000 AND A.A_NAME=(SELECT A.A_NAME FROM
AUTHORS A,CATALOG C WHERE A.AUTHOR_ID=C.AUTHOR_ID GROUP BY C.AUTHOR_ID HAVING
COUNT(*)>=2);


SELECT A.A_NAME FROM AUTHORS A,CATALOG C,ORDER_DETAILS O WHERE
O.BOOK_ID=C.BOOK_ID AND A.AUTHOR_ID=C.AUTHOR_ID AND O.BOOK_ID=(SELECT BOOK_ID
FROM ORDER_DETAILS WHERE QTY=(SELECT MAX(QTY) FROM ORDER_DETAILS));


UPDATE CATALOG SET PRICE=1.10*PRICE;

SELECT * FROM CATALOG;
```

```
48
49  ●  INSERT INTO AUTHORS VALUES(10,'SAM','BLORE','INDIA');
50  ●  INSERT INTO AUTHORS VALUES(20,'VARAD','COORG','INDIA');
51  ●  INSERT INTO AUTHORS VALUES(30,'OSHIKA','CA','USA');
52  ●  INSERT INTO AUTHORS VALUES(40,'SOUNDARYA','SPAIN','BARCELONA');
53  ●  INSERT INTO AUTHORS VALUES(50,'VIVEK','DELHI','INDIA');
54  ●  SELECT * FROM AUTHORS;
55
56  ●  INSERT INTO PUBLISHERS VALUES(1,'PHI','NY','USA');
57  ●  INSERT INTO PUBLISHERS VALUES(2,'EEE','LA','USA');
```

| Result Grid | Filter Rows: | | Edit: | Export/Import: | Wrap Cell Conte |

AUTHOR_ID	A_NAME	CITY	COUNTRY
10	SAM	BLORE	INDIA
20	VARAD	COORG	INDIA
30	OSHIKA	CA	USA
40	SOUNDARYA	SPAIN	BARCELONA
50	VIVEK	DELHI	INDIA
NULL	NULL	NULL	NULL

```
70 ● INSERT INTO CATALOG VALUES(111,'BASICS',50,2,11,2003,200);
71 ● INSERT INTO CATALOG VALUES(222,'PROG',40,5,44,1999,500);
72 ● INSERT INTO CATALOG VALUES(333,'MP',50,1,11,2009,900);
73 ● INSERT INTO CATALOG VALUES(444,'CIRCUITS',50,2,22,1997,300);
74 ● INSERT INTO CATALOG VALUES(555,'DATA',30,3,55,2005,600);
75 ● SELECT * FROM CATALOG;
76
77 ● INSERT INTO ORDER_DETAILS VALUES(123,222,100);
78 ● INSERT INTO ORDER_DETAILS VALUES(231,111,150);
79 ● INSERT INTO ORDER_DETAILS VALUES(143,333,90);
80 ● INSERT INTO ORDER_DETAILS VALUES(156,555,200);
81 ● INSERT INTO ORDER DETAILS VALUES(218,444,70);
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

BOOK_ID	TITLE	AUTHOR_ID	PUBLISHER_ID	CATEGORY_ID	P_YEAR	PRICE
111	BASICS	50	2	11	2003	200
222	PROG	40	5	44	1999	500
333	MP	50	1	11	2009	900
444	CIRCUITS	50	2	22	1997	300
555	DATA	30	3	55	2005	600
NULL	NULL	NULL	NULL	NULL	NULL	NULL

CATALOG 4

```
63 ● INSERT INTO CATEGORY VALUES(11,'CS');
64 ● INSERT INTO CATEGORY VALUES(22,'EC');
65 ● INSERT INTO CATEGORY VALUES(33,'OS');
66 ● INSERT INTO CATEGORY VALUES(44,'C++');
67 ● INSERT INTO CATEGORY VALUES(55,'DBMS');
68 ● SELECT * FROM CATEGORY;
69 
70 ● INSERT INTO CATALOG VALUES(111,'BASICS',50,2,11,2003,200);
71 ● INSERT INTO CATALOG VALUES(222,'PROG',40,5,44,1999,500);
72 ● INSERT INTO CATALOG VALUES(333,'MP',50,1,11,2009,900);
73 ● INSERT INTO CATALOG VALUES(444,'CIRCUITS',50,2,22,1997,300);
74 ● INSERT INTO CATALOG VALUES(555,'DATA',30,3,55,2005,600);
75 ● SELECT * FROM CATALOG;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

CATEGORY_ID	DESCRIPTIONS
11	CS
22	EC
33	OS
44	C++
55	DBMS
NULL	NULL

```
77 •     INSERT INTO ORDER_DETAILS VALUES(123,222,100);
78 •     INSERT INTO ORDER_DETAILS VALUES(231,111,150);
79 •     INSERT INTO ORDER_DETAILS VALUES(143,333,90);
80 •     INSERT INTO ORDER_DETAILS VALUES(156,555,200);
81 •     INSERT INTO ORDER_DETAILS VALUES(218,444,70);
82 •     SELECT * FROM ORDER_DETAILS;
83
```

Result Grid | Filter Rows: | Edit: | Export/Import:

ORDER_NO	BOOK_ID	QTY
123	222	100
143	333	90
156	555	200
218	444	70
231	111	150
NULL	NULL	NULL

ORDER_DETAILS 5 ×

Output

```
56 •     INSERT INTO PUBLISHERS VALUES(1,'PHI','NY','USA');
57 •     INSERT INTO PUBLISHERS VALUES(2,'EEE','LA','USA');
58 •     INSERT INTO PUBLISHERS VALUES(3,'SWAPNA','','INDIA');
59 •     INSERT INTO PUBLISHERS VALUES(4,'MGH','NY','USA');
60 •     INSERT INTO PUBLISHERS VALUES(5,'PEARSON','DELHI','INDIA');
61 •     SELECT * FROM PUBLISHERS;
62
63 •     INSERT INTO CATEGORY VALUES(11,'CS');
64 •     INSERT INTO CATEGORY VALUES(22,'EC');
65 •     INSERT INTO CATEGORY VALUES(33,'OS');
66 •     INSERT INTO CATEGORY VALUES(44,'C++');
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

PUBLISHER_ID	P_NAME	CITY	COUNTRY
1	PHI	NY	USA
2	EEE	LA	USA
3	SWAPNA		INDIA
4	MGH	NY	USA
5	PEARSON	DELHI	INDIA
NULL	NULL	NULL	NULL

PUBLISHERS 2 ∨

```
84 •  SELECT A.A_NAME,C.TITLE,C.PRICE FROM AUTHORS A,CATALOG C WHERE C.AUTHOR_ID=A.AUTHOR_ID AND C.P_YEAR>=2000 AND A.A_NAME=(SELECT A.A_NAME FROM AUTHORS A,CATALOG C WHERE A.AUTHOR_
85
86 •  SELECT A.A_NAME FROM AUTHORS A,CATALOG C,ORDER_DETAILS O WHERE O.BOOK_ID=C.BOOK_ID AND A.AUTHOR_ID=C.AUTHOR_ID AND O.BOOK_ID=(SELECT BOOK_ID FROM ORDER_DETAILS WHERE QTY=(SELEC
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

A_NAME	TITLE	PRICE
VIVEK	BASICS	200
VIVEK	MP	900

```
86 •  SELECT A.A_NAME FROM AUTHORS A,CATALOG C,ORDER_DETAILS O WHERE O.BOOK_ID=C.BOOK_ID AND A.AUTHOR_ID=C.AUTHOR_ID AND O.BOOK_ID=(SELECT BOOK_ID FROM ORDER_DETAILS WHERE QTY=(SELEC
87
88 •  UPDATE CATALOG SET PRICE=1.10*PRICE;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

A_NAME
OSHIKA

Result 7 ×   ⓘ Read Only

Output

```
87
88 •  UPDATE CATALOG SET PRICE=1.10*PRICE;
89 •  SELECT * FROM CATALOG;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

BOOK_ID	TITLE	AUTHOR_ID	PUBLISHER_ID	CATEGORY_ID	P_YEAR	PRICE
111	BASICS	50	2	11	2003	200
222	PROG	40	5	44	1999	500
333	MP	50	1	11	2009	900
444	CIRCUITS	50	2	22	1997	300
555	DATA	30	3	55	2005	600
NULL	NULL	NULL	NULL	NULL	NULL	NULL

CATALOG 8 ⌄