

```
CREATE TABLE author (  
    Author_id INT,  
    Name VARCHAR(20),  
    City VARCHAR(20),  
    Country VARCHAR(20),  
    PRIMARY KEY(author_id));
```

```
CREATE TABLE publisher(  
    Publisher_id INT,  
    Name VARCHAR(20),  
    City VARCHAR(20),  
    Country VARCHAR(20),  
    PRIMARY KEY(publisher_id));
```

```
CREATE TABLE category (  
    Category_id INT,  
    Description VARCHAR(30),  
    PRIMARY KEY(category_id) );
```

```
Create TABLE catalogue(  
    Book_id INT,  
    Book_title VARCHAR(30),  
    Author_id INT,  
    Publisher_id INT,  
    Category_id INT,  
    Year INT,  
    Price INT,  
    PRIMARY KEY(book_id),  
    FOREIGN KEY(author_id) REFERENCES author(author_id),  
    FOREIGN KEY(publisher_id) REFERENCES publisher(publisher_id),  
    FOREIGN KEY(category_id) REFERENCES category(category_id) );
```

```
CREATE TABLE orderdetails(
```

```
    Order_no INT,
```

```
    Book_id INT,
```

```
    Quantity INT,
```

```
    PRIMARY KEY(order_no),
```

```
    FOREIGN KEY(book_id) REFERENCES catalogue(book_id));
```

```
INSERT INTO author1 (author1_id,author1_name,author1_city,author1_country) VALUES
```

```
    (1001,'JK Rowling','London','England'),
```

```
    (1002,'Chetan Bhagat','Mumbai','India'),
```

```
    (1003,'John McCarthy','Chicago','USA'),
```

```
    (1004,'Dan Brown','California','USA')
```

```
    (1005,'John Green','Berlin','Germany');
```

```
INSERT INTO publisher (publisher_id,name,city,country) VALUES
```

```
(2001,'Bloomsbury','London','England'),
```

```
    (2002,'Scholastic','Washington','USA'),
```

```
    (2003,'Pearson','London','England'),
```

```
    (2004,'Rupa','Delhi','India') ,
```

```
(2005,'stefan','Berlin','Germany');
```

```
Insert INTO category (category_id,description) VALUES
```

```
    (3001,'Fiction'),
```

```
    (3002,'Non-Fiction'),
```

```
    (3003,'thriller'),
```

```
    (3004,'action'),
```

```
    (3005,'fiction') ;
```

```
INSERT INTO catalogue (book_id,book_title,author_id,publisher_id,category_id,year,price) VALUES
```

```

(4001,'HP and Goblet Of Fire',1001,2001,3001,2002,600),
(4002,'HP and Order Of Phoenix',1001,2002,3001,2005,650),
(4003,'Two States',1002,2004,3001,2009,65),
(4004,'3 Mistakes of my life',1002,2004,3001,2007,55),
(4005,'Da Vinci Code',1004,2003,3001,2004,450),
(4006,'Angels and Demons',1004,2003,3001,2003,350),
(4007,'Artificial Intelligence',1003,2002,3002,1970,500);

```

```

INSERT INTO orderdetails (order_no,book_id,quantity) VALUES

```

```

(5001,4001,5),
(5002,4002,7),
(5003,4003,15),
(5004,4004,11),
(5005,4005,9),
(5006,4006,8),
(5007,4007,2),
(5008,4004,3) ;

```

1)

```

SELECT * FROM author
WHERE author_id IN
(SELECT author_id FROM catalogue WHERE
Year>2000 AND price>
(SELECT AVG(price) FROM catalogue)
GROUP BY author_id HAVING COUNT(*)>1);

```

2)

```

SELECT name FROM author a,catalogue c WHERE a.author_id=c.author_id AND book_id IN (SELECT
book_id FROM orderdetails WHERE quantity= (SELECT MAX(quantity) FROM orderdetails));

```

3)

```

UPDATE catalogue SET price=1.1*price

```

```
WHERE publisher_id IN  
(SELECT publisher_id FROM publisher WHERE  
Name='pearson');
```

```
MariaDB [book]> select * from author;
```

author_id	name	city	country
1001	JK Rowling	London	England
1002	Chetan Bhagat	Mumbai	India
1003	John McCarthy	Chicago	USA
1004	Dan Brown	California	USA
1005	John Green	Berlin	Germany

```
5 rows in set (0.004 sec)
```

```
MariaDB [book]> select * from publisher;
```

publisher_id	name	city	country
2001	Bloomsbury	London	England
2002	Scholastic	Washington	USA
2003	Pearson	London	England
2004	Rupa	Delhi	India
2005	stefan	Berlin	Germany

```
5 rows in set (0.001 sec)
```

```
MariaDB [book]> select * from category;
```

category_id	description
3001	Fiction
3002	Non-Fiction
3003	thriller
3004	action
3005	fiction

```
5 rows in set (0.002 sec)
```

```
MariaDB [book]> select * from catalogue;
```

book_id	book_title	author_id	publis
her_id	category_id	year	price
4001	HP and Goblet Of Fire	1001	
2001	3001	2002	600
4002	HP and Order Of Phoenix	1001	
2002	3001	2005	650
4003	Two States	1002	
2004	3001	2009	65
4004	3 Mistakes of my life	1002	
2004	3001	2007	55
4005	Da Vinci Code	1004	
2003	3001	2004	495
4006	Angels and Demons	1004	

```

MariaDB [book]> SELECT * FROM author
-> WHERE author_id IN
-> (SELECT author_id FROM catalogue WHERE
-> year>2000 AND price>
-> (SELECT AVG(price) FROM catalogue)
-> GROUP BY author_id HAVING COUNT(*)>1);

```

```

+-----+-----+-----+-----+
| author_id | name      | city   | country |
+-----+-----+-----+-----+
|      1001 | JK Rowling | London | England |
+-----+-----+-----+-----+
1 row in set (0.129 sec)

```

```

MariaDB [book]> SELECT name FROM author a,catalogue c WH
ERE a.author_id=c.author_id AND book_id IN (SELECT book_
id FROM orderdetails WHERE quantity= (SELECT MAX(quantit
y) FROM orderdetails));

```

```

+-----+
| name      |
+-----+
| Chetan Bhagat |
+-----+
1 row in set (0.004 sec)

```

```

MariaDB [book]> UPDATE catalogue SET price=1.1*price
-> WHERE publisher_id IN
-> (SELECT publisher_id FROM publisher WHE
RE
-> name='pearson');

```

```

Query OK, 2 rows affected (0.007 sec)
Rows matched: 2  Changed: 2  Warnings: 0

```

```
MariaDB [book]> select * from catalogue;
```

```
+-----+-----+-----+-----+
-----+-----+-----+-----+
| book_id | book_title                | author_id | publis
her_id | category_id | year | price |
+-----+-----+-----+-----+
-----+-----+-----+-----+
|      4001 | HP and Goblet Of Fire    |      1001 |
2001 |      3001 | 2002 |    600 |
|      4002 | HP and Order Of Phoenix  |      1001 |
2002 |      3001 | 2005 |    650 |
|      4003 | Two States               |      1002 |
2004 |      3001 | 2009 |     65 |
|      4004 | 3 Mistakes of my life    |      1002 |
2004 |      3001 | 2007 |     55 |
|      4005 | Da Vinci Code            |      1004 |
2003 |      3001 | 2004 |    495 |
|      4006 | Angels and Demons        |      1004 |
2003 |      3001 | 2003 |    385 |
|      4007 | Artificial Intelligence   |      1003 |
2002 |      3002 | 1970 |    500 |
+-----+-----+-----+-----+
-----+-----+-----+-----+
```

```
7 rows in set (0.143 sec)
```

