

Write SQL queries to perform the following tasks:

- a. Retrieve all the books from the database.
- b. Retrieve the details of a book based on its title.
- c. Update the price of a book.
- d. Delete a book from the database based on its title.

```
CREATE DATABASE BookStores;
```

```
USE BookStores;
```

```
CREATE TABLE bookstores(
```

```
    id INT PRIMARY KEY,  
    title VARCHAR(100) NOT NULL,  
    author VARCHAR(100) NOT NULL,  
    genre VARCHAR(100) NOT NULL,  
    pub_y INT NOT NULL,  
    price DECIMAL(8,2) NOT NULL  
);
```

```
INSERT INTO bookstores(id,title,author,genre,pub_y,price)  
VALUES(1,'book1','Jane Austin','Classic',2000,9.99),  
(2,'book2','Harper','Fiction',2001,12.20),  
(3,'book3','george','science',2002,10.76),  
(4,'book4','rose','romantic',2003,10.23);
```

```
SELECT*FROM bookstores;
```

```
SELECT*FROM bookstores WHERE title='book3';
```

```
UPDATE bookstores SET price=9.99 WHERE id=2;
```

```
DELETE FROM bookstores WHERE title='book4';
```

a. Retrieve all the books from the database.

SELECT*FROM bookstores;

The screenshot shows the MySQL Workbench interface. In the SQL Editor tab, the following SQL code is written:

```
11 • 1 Execute the selected portion of the script or everything, if there is no selection
12   VALUES(1,'book1','Jane Austin','Classic',2000,9.99),
13   (2,'book2','Harper','Fiction',2001,12.20),
14   (3,'book3','george','science',2002,10.76),
15   (4,'book4','rose','romantic',2003,10.23);
16 •  SELECT*FROM bookstores;
```

The Result Grid shows the following data:

ID	Title	Author	Genre	Pub_Y	Price
1	book1	Jane Austin	Classic	2000	9.99
2	book2	Harper	Fiction	2001	12.20
3	book3	george	science	2002	10.76
4	book4	rose	romantic	2003	10.23
*	NULL	NULL	NULL	NULL	NULL

The Output tab shows the following log entries:

#	Time	Action	Message	Duration / Fetch
1	20:49:05	CREATE DATABASE BookStores	1 row(s) affected	0.250 sec
2	20:49:05	USE Book Stores	0 row(s) affected	0.000 sec
3	20:49:53	CREATE TABLE bookstores(id INT PRIMARY KEY,title VARCHAR(100) NOT NULL,author VARCHAR(100) NOT NULL,genre VARCHAR(100) NOT NULL,pub_y YEAR NOT NULL,price DECIMAL(5,2) NOT NULL)	0 row(s) affected	0.969 sec
4	20:50:22	INSERT INTO bookstores(id,title,author,genre,pub_y,price) VALUES(1,'book1','Jane Austin','Classic',2000,9.99),(2,'book2','Harper','Fiction',2001,12.20),(3,'book3','george','science',2002,10.76),(4,'book4','rose','romantic',2003,10.23)	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.187 sec
5	20:50:43	SELECT*FROM bookstores LIMIT 0,5000	4 row(s) returned	0.000 sec / 0.000 sec
6	20:51:03	SELECT*FROM bookstores LIMIT 0,5000	4 row(s) returned	0.016 sec / 0.000 sec
7	20:51:03	SELECT*FROM bookstores WHERE title='book3' LIMIT 0,5000	1 row(s) returned	0.000 sec / 0.000 sec

b. Retrieve the details of a book based on its title.

SELECT*FROM bookstores WHERE title='book3';

The screenshot shows the MySQL Workbench interface. In the SQL Editor tab, the following SQL code is written:

```
12   VALUES(1,'book1','Jane Austin','Classic',2000,9.99),
13   (2,'book2','Harper','Fiction',2001,12.20),
14   (3,'book3','george','science',2002,10.76),
15   (4,'book4','rose','romantic',2003,10.23);
16 •  SELECT*FROM bookstores;
17 •  SELECT*FROM bookstores WHERE title='book3';
```

The Result Grid shows the following data:

ID	Title	Author	Genre	Pub_Y	Price
3	book3	george	science	2002	10.76
*	NULL	NULL	NULL	NULL	NULL

The Output tab shows the following log entries:

#	Time	Action	Message	Duration / Fetch
2	20:49:05	USE Book Stores	0 row(s) affected	0.000 sec
3	20:49:53	CREATE TABLE bookstores(id INT PRIMARY KEY,title VARCHAR(100) NOT NULL,author VARCHAR(100) NOT NULL,genre VARCHAR(100) NOT NULL,pub_y YEAR NOT NULL,price DECIMAL(5,2) NOT NULL)	0 row(s) affected	0.969 sec
4	20:50:22	INSERT INTO bookstores(id,title,author,genre,pub_y,price) VALUES(1,'book1','Jane Austin','Classic',2000,9.99),(2,'book2','Harper','Fiction',2001,12.20),(3,'book3','george','science',2002,10.76),(4,'book4','rose','romantic',2003,10.23)	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.187 sec
5	20:50:43	SELECT*FROM bookstores LIMIT 0,5000	4 row(s) returned	0.000 sec / 0.000 sec
6	20:51:03	SELECT*FROM bookstores LIMIT 0,5000	4 row(s) returned	0.016 sec / 0.000 sec
7	20:51:03	SELECT*FROM bookstores WHERE title='book3' LIMIT 0,5000	1 row(s) returned	0.000 sec / 0.000 sec

c. Update the price of a book.

UPDATE bookstores SET price=9.99 WHERE id=2;

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema tree with databases like bookdb, booksdb, bookstore, bookstroredb, bookstroredbs, college, rose, rosie, sakila, sys, and world.
- SQL File 2***: Contains the SQL code:

```
12 VALUES(1,'book1','Jane Austin','Classic',2000,9.99),
13 (2,'book2','Harper','Fiction',2001,12.20),
14 (3,'book3','george','science',2002,10.76),
15 (4,'book4','rose','romantic',2003,10.23);
16 • SELECT*FROM bookstores;
17 • UPDATE bookstores SET price=9.99 WHERE id=2;
```
- Result Grid**: Displays the results of the SELECT query, showing 4 rows of book information.
- Action Output**: Shows the log of actions taken by the session, including the UPDATE statement and its execution details.
- Output**: Shows the execution results of the UPDATE statement.

d. Delete a book from the database based on its title.

DELETE FROM bookstores WHERE title='book4';

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema tree with the same set of databases as the previous screenshot.
- SQL File 2***: Contains the SQL code:

```
5 title VARCHAR(100) NOT NULL,
6 author VARCHAR(100) NOT NULL,
7 genre VARCHAR(100) NOT NULL,
8 pub_y INT NOT NULL,
9 price DECIMAL(8,2) NOT NULL
10 );
11 • INSERT INTO bookstores(id,title,author,genre,pub_y,price)
12 VALUES(1,'book1','Jane Austin','Classic',2000,9.99),
13 (2,'book2','Harper','Fiction',2001,12.20),
14 (3,'book3','george','science',2002,10.76),
15 (4,'book4','rose','romantic',2003,10.23);
16 • SELECT*FROM bookstores;
17 • SELECT*FROM bookstores WHERE title='book3';
18 • UPDATE bookstores SET price=9.99 WHERE id=2;
19 • DELETE FROM bookstores WHERE title='book4';
```
- Action Output**: Shows the log of actions taken by the session, including the DELETE statement and its execution details.
- Output**: Shows the execution results of the DELETE statement.

