

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. The SQL Editor contains a query that creates a database, a table, and inserts data. The query is executed, and the results are displayed in the Result Grid. The Result Grid shows 4 rows of data for the 'bookstores' table.

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

The Output pane shows the execution log with the following actions:

#	Time	Action	Message	Duration / Fetch
1	20:49:05	CREATE DATABASE BookStores	1 row(s) affected	0.250 sec
2	20:49:05	USE BookStores	0 row(s) affected	0.000 sec
3	20:49:53	CREATE TABLE bookstores(id INT PRIMARY KEY, title VARCHAR(100) NOT NULL, author ...	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','C...	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

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

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

The screenshot shows the MySQL Workbench interface. The SQL Editor contains a query that creates a database, a table, and inserts data. The query is executed, and the results are displayed in the Result Grid. The Result Grid shows 1 row of data for the 'bookstores' table where the title is 'book3'.

id	title	author	genre	pub_y	price
3	book3	george	science	2002	10.76

The Output pane shows the execution log with the following actions:

#	Time	Action	Message	Duration / Fetch
2	20:49:05	USE BookStores	0 row(s) affected	0.000 sec
3	20:49:53	CREATE TABLE bookstores(id INT PRIMARY KEY, title VARCHAR(100) NOT NULL, autho...	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',...	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. The SQL Editor contains the following queries:

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

The Result Grid shows the data for the 'bookstores' table:

id	title	author	genre	pub_y	price
1	book1	Jane Austin	Classic	2000	9.99
2	book2	Harper	Fiction	2001	9.99
3	book3	george	science	2002	10.76
4	book4	rose	romantic	2003	10.23

The Action Output pane shows the execution of the UPDATE query:

#	Time	Action	Message	Duration / Fetch
10	20:53:53	UPDATE bookstores SET price=9.99 WHERE id=2	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.250 sec
11	20:54:04	UPDATE bookstores SET price=9.99 WHERE id=2	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
12	20:54:10	UPDATE bookstores SET price=9.99 WHERE id=2	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
13	20:55:29	SELECT*FROM bookstores LIMIT 0, 5000	4 row(s) returned	0.000 sec / 0.000 sec
14	20:55:29	UPDATE bookstores SET price=9.99 WHERE id=2	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
15	20:55:29	SELECT*FROM bookstores LIMIT 0, 5000	4 row(s) returned	0.000 sec / 0.000 sec
16	20:55:29	UPDATE bookstores SET price=9.99 WHERE id=2	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec

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

DELETE FROM bookstores WHERE title='book4';

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following queries:

```
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';
```

The Action Output pane shows the execution of the DELETE query:

#	Time	Action	Message	Duration / Fetch
14	20:55:29	UPDATE bookstores SET price=9.99 WHERE id=2	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
15	20:55:29	SELECT*FROM bookstores LIMIT 0, 5000	4 row(s) returned	0.000 sec / 0.000 sec
16	20:55:29	UPDATE bookstores SET price=9.99 WHERE id=2	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
17	20:56:00	UPDATE bookstores SET price=9.99 WHERE title='book3'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.234 sec
18	20:56:13	SELECT*FROM bookstores LIMIT 0, 5000	4 row(s) returned	0.000 sec / 0.000 sec
19	20:56:13	UPDATE bookstores SET price=9.99 WHERE title='book3'	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
20	20:56:44	DELETE FROM bookstores WHERE title='book4'	1 row(s) affected	0.125 sec

