

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 BooksDB;
```

```
USE BooksDB;
```

```
CREATE TABLE Books (
```

```
    id INT AUTO_INCREMENT PRIMARY KEY,
```

```
    title VARCHAR(100) ,
```

```
    author VARCHAR(100),
```

```
    genre VARCHAR(50),
```

```
    publication_year INT ,
```

```
    price DECIMAL(8,2)
```

```
);
```

```
INSERT INTO Books (title, author, genre, publication_year, price)
```

```
VALUES ('Pride and Prejudice', 'Jane Austen', 'Classic', 1813, 9.99),
```

```
    ('To Kill a Mockingbird', 'Harper Lee', 'Fiction', 1960, 12.50),
```

```
    ('1984', 'George Orwell', 'Science Fiction', 1949, 10.75),
```

```
    ('The Great Gatsby', 'F. Scott Fitzgerald', 'Classic', 1925, 8.99),
```

```
    ('The Catcher in the Rye', 'J.D. Salinger', 'Fiction', 1951, 11.25);
```

```
SELECT * FROM Books;
```

```
SELECT * FROM Books WHERE title = '1984';
```

```
UPDATE Books SET price = 15.99 WHERE id =4;
```

DELETE Books

FROM Books

JOIN (SELECT id FROM Books WHERE title = 'The Catcher in the Rye') AS temp

WHERE Books.id = temp.id;

a. Retrieve all the books from the database.

SELECT * FROM Books;

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying a SQL script. The script includes a VALUES statement with book details, followed by a SELECT statement to retrieve all books from the 'Books' table. The 'Result Grid' shows the output of the SELECT statement, displaying a table with columns: id, title, author, genre, publication_year, and price. The table contains five rows of data. The 'Output' tab at the bottom shows the execution log, indicating that the database was created, the table was created, and the data was inserted successfully. The status bar at the bottom shows the date and time as 22:03 on 04-07-2023.

```
14 VALUES ('Pride and Prejudice', 'Jane Austen', 'Classic', 1813, 9.99),
15          ('To Kill a Mockingbird', 'Harper Lee', 'Fiction', 1960, 12.50),
16          ('1984', 'George Orwell', 'Science Fiction', 1949, 10.75),
17          ('The Great Gatsby', 'F. Scott Fitzgerald', 'Classic', 1925, 8.99),
18          ('The Catcher in the Rye', 'J.D. Salinger', 'Fiction', 1951, 11.25);
19
20 SELECT * FROM Books;
```

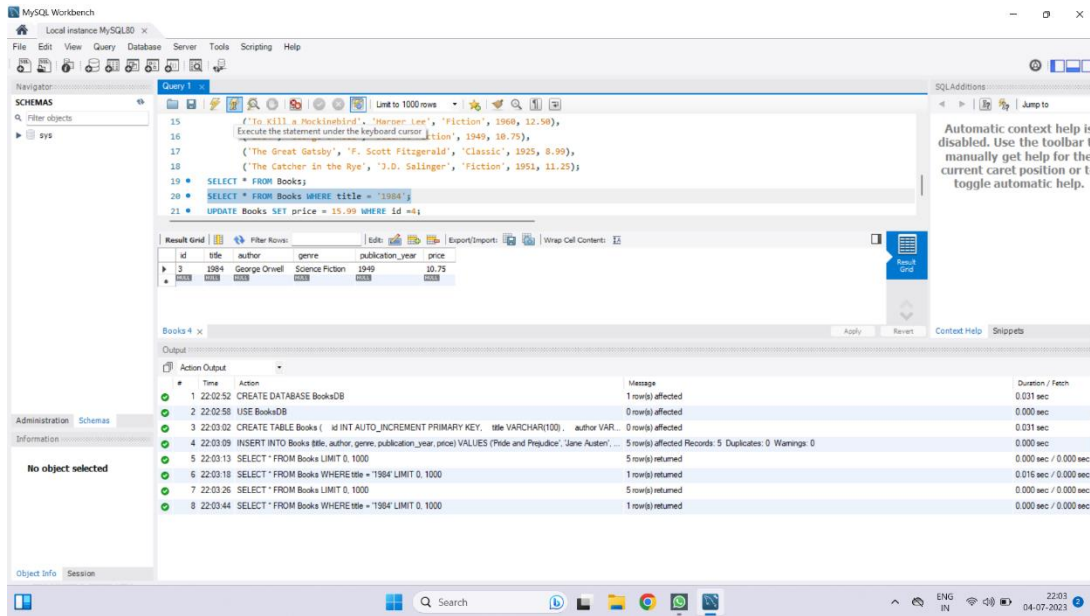
id	title	author	genre	publication_year	price
1	Pride and Prejudice	Jane Austen	Classic	1813	9.99
2	To Kill a Mockingbird	Harper Lee	Fiction	1960	12.50
3	1984	George Orwell	Science Fiction	1949	10.75
4	The Great Gatsby	F. Scott Fitzgerald	Classic	1925	8.99
5	The Catcher in the Rye	J.D. Salinger	Fiction	1951	11.25

Output:

#	Time	Action	Message	Duration / Fetch
1	22:02:52	CREATE DATABASE BooksDB	1 row(s) affected	0.031 sec
2	22:02:58	USE BooksDB	0 row(s) affected	0.000 sec
3	22:03:02	CREATE TABLE Books (id INT AUTO_INCREMENT PRIMARY KEY, title VARCHAR(100), author VARCHAR(100), genre VARCHAR(100), publication_year INT, price DECIMAL(10,2))	0 row(s) affected	0.031 sec
4	22:03:09	INSERT INTO Books (title, author, genre, publication_year, price) VALUES ('Pride and Prejudice', 'Jane Austen', 'Classic', 1813, 9.99), ('To Kill a Mockingbird', 'Harper Lee', 'Fiction', 1960, 12.50), ('1984', 'George Orwell', 'Science Fiction', 1949, 10.75), ('The Great Gatsby', 'F. Scott Fitzgerald', 'Classic', 1925, 8.99), ('The Catcher in the Rye', 'J.D. Salinger', 'Fiction', 1951, 11.25)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
5	22:03:13	SELECT * FROM Books LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
6	22:03:18	SELECT * FROM Books WHERE title = '1984' LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 sec
7	22:03:26	SELECT * FROM Books LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

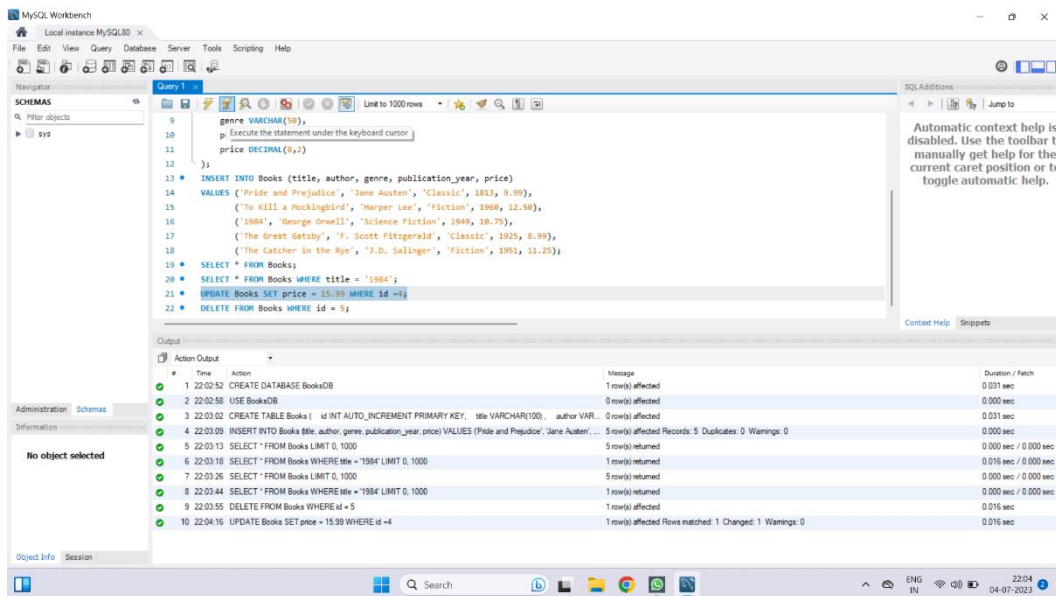
b. Retrieve the details of a book based on its title.

SELECT * FROM Books WHERE title = '1984';



c. Update the price of a book.

UPDATE Books SET price = 15.99 WHERE id =4;



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

DELETE Books

FROM Books

JOIN (SELECT id FROM Books WHERE title = 'The Catcher in the Rye') AS temp

WHERE Books.id = temp.id;

