SQL ASSIGNMENT 1

FULL QUERY:

```
CREATE DATABASE BooksDB;
USE BooksDB;
CREATE TABLE Books(
title VARCHAR(20),
author VARCHAR(20),
genre VARCHAR(10),
pyear INT,
price INT
);
DESCRIBE Books;
INSERT INTO Books VALUES("Life of Pi","Yann Martel","Advendure",2001,2456);
INSERT INTO Books VALUES("Bird Box","Josh Malerman","Horror",2015,2126);
INSERT INTO Books VALUES("The Night Fire","Michael Connelly","Mystry",2019,2476);
INSERT INTO Books VALUES("Dare Devil","Stan Lee","Comic",1964,700);
INSERT INTO Books VALUES("The Water Dancer","Ta-Nehisi Coats","Fantasy",2018,1018);

SELECT * FROM Books;
SELECT * FROM Books WHERE title="The Night Fire";
UPDATE Books SET price=2750 WHERE title="Life of Pi";
DELETE FROM Books WHERE title="Dare Devil";
```

Four types of Operations

There are four types of operations are used in MySql.

They are:

1) Create
2) Read
3) Update
4) Delete

In one table we can using all these four operations.

Questions:

Create a database named "BooksDB" to store information about the bookstore's collection of books.

Design a table called "Books" to store the details of each book, including the book's title, author, genre, publication year, and price.

Insert at least five books into the "Books" table, ensuring that each book has unique information for all columns.

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:

OUTPUTS:

SCREENSHOTS:

Describe Books:

In this area we describe our table.

Query:

DESCRIBE Books;

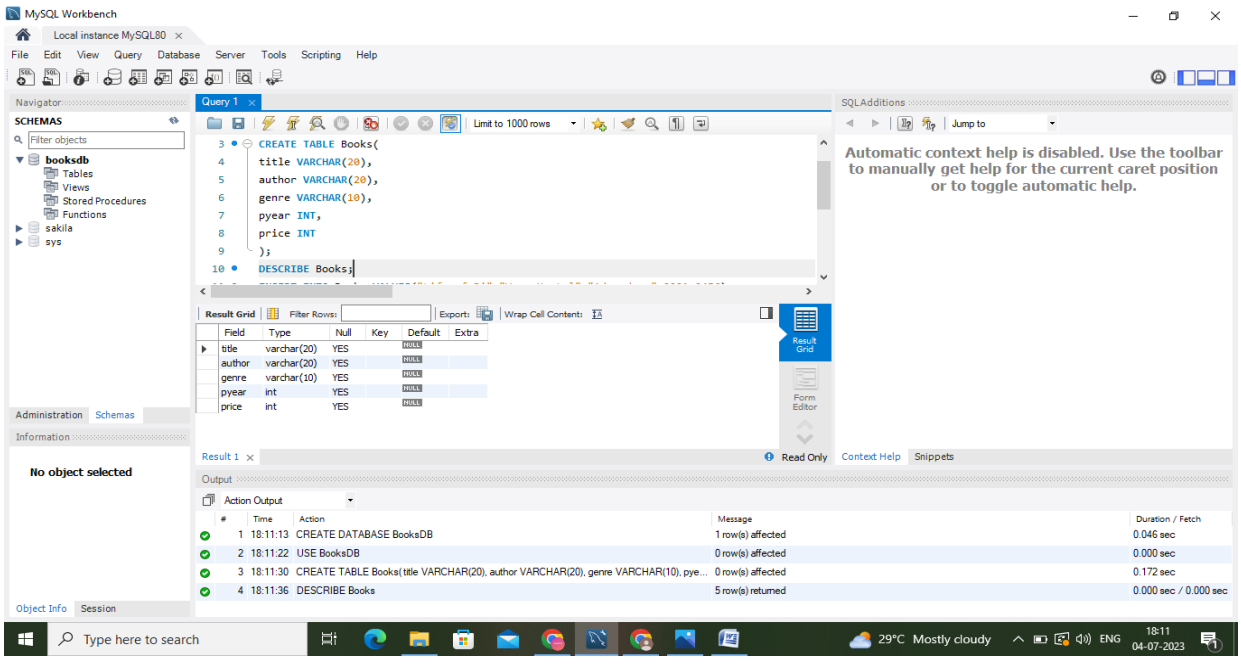
INSERT INTO Books VALUES("Life of Pi","Yann Martel","Advendure",2001,2456);

INSERT INTO Books VALUES("Bird Box","Josh Malerman","Horror",2015,2126);

INSERT INTO Books VALUES("The Night Fire","Michael Connelly","Mystry",2019,2476);

INSERT INTO Books VALUES("Dare Devil","Stan Lee","Comic",1964,700);

INSERT INTO Books VALUES("The Water Dancer","Ta-Nehisi Coats","Fantasy",2018,1018);



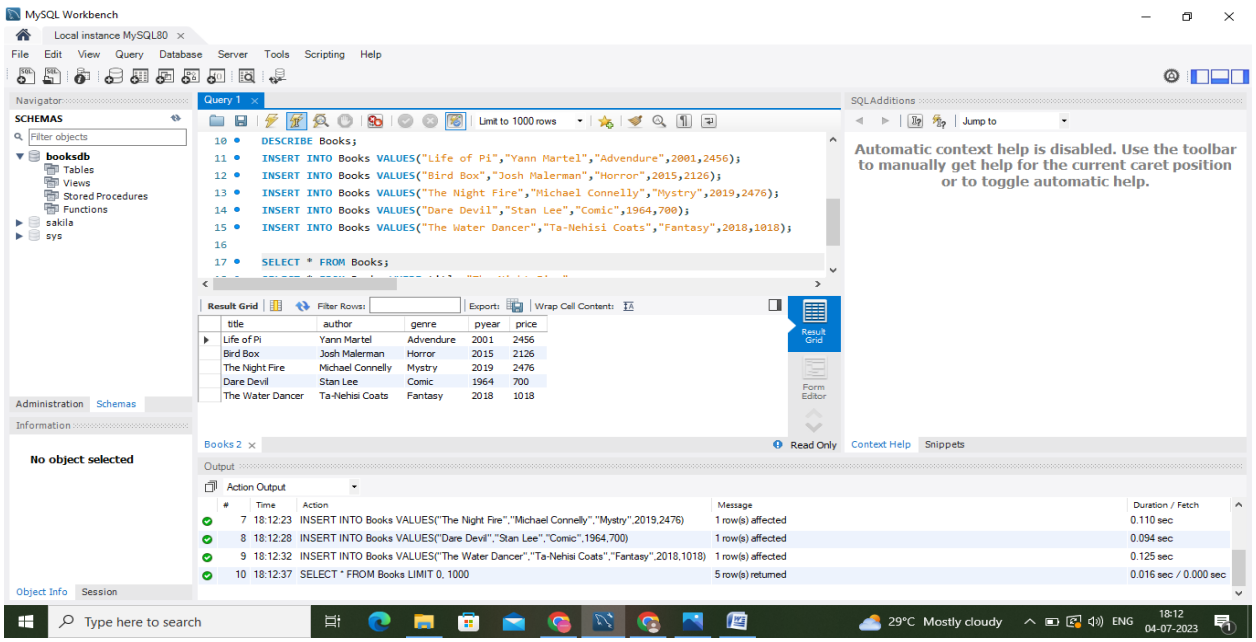
A).Retrieve all the books from the database.

Our table was created. All the books from the database can be retrieved.

Query:

```
SELECT * FROM Books;
```

title	author	genre	pyear	price
Life of Pi	Yann Martel	Advendure	2001	2456
Bird Box	Josh Malerman	Horror	2015	2126
The Night Fire	Michael Connelly	Mystry	2019	2476
Dare Devil	Stan Lee	Comic	1964	700
The Water Dancer	Ta-Nehisi Coats	Fantasy	2018	1018



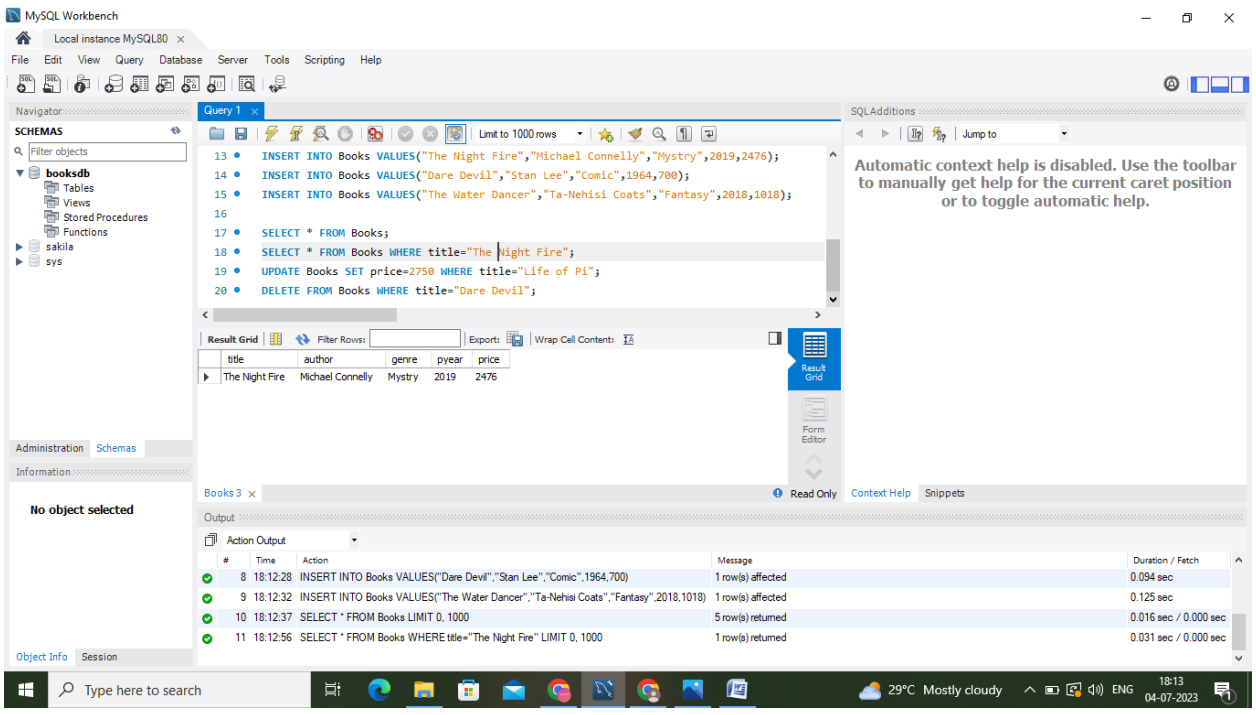
B).Retrieve the details of a book based on its title:

Using the title name we can retrieve the particular row from the database.

Query:

```
SELECT * FROM Books WHERE title="The Night Fire";
```

title	author	genre	pyear	price
The Night Fire	Michael Connelly	Mystry	2019	2476



C) Update the price of a book.

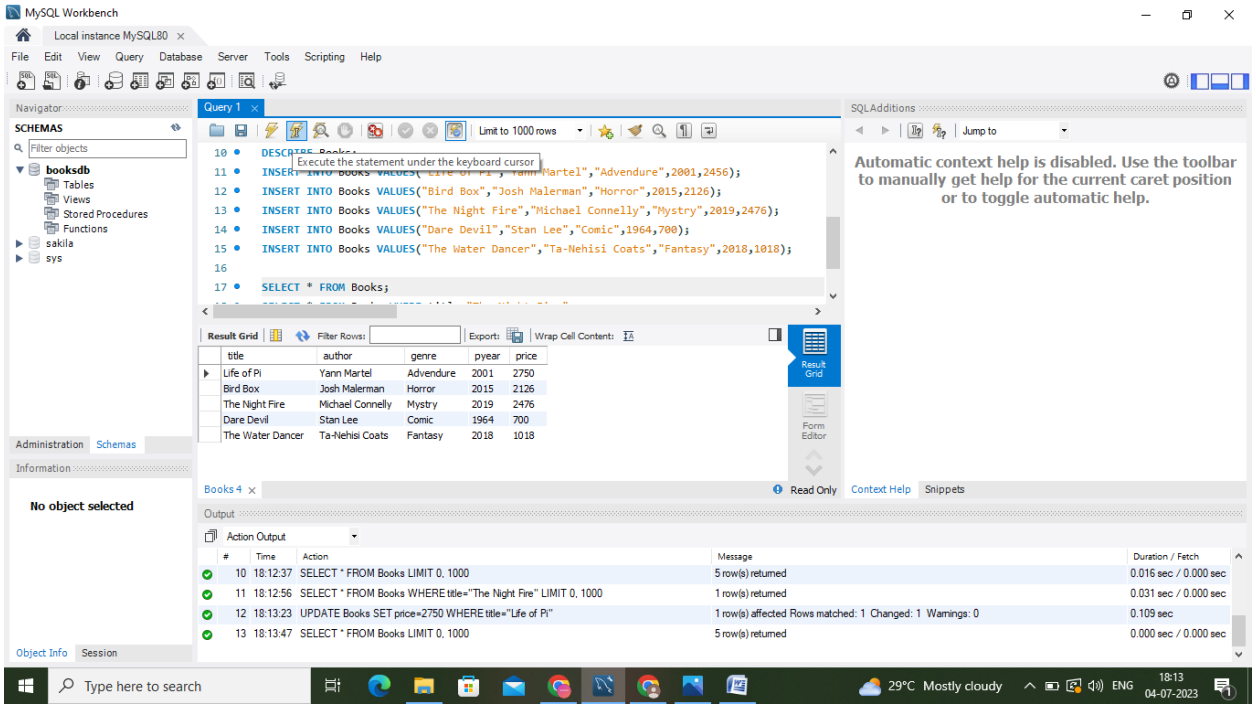
In this question we use the Update method. Using update method we can update any values in the table.

This question we change the book price from the books table.

Query:

```
UPDATE Books SET price=2750 WHERE title="Life of Pi";
```

title	author	genre	pyear	price
Life of Pi	Yann Martel	Advendure	2001	2750
Bird Box	Josh Malerman	Horror	2015	2126
The Night Fire	Michael Connelly	Mystry	2019	2476
Dare Devil	Stan Lee	Comic	1964	700
The Water Dancer	Ta-Nehisi Coats	Fantasy	2018	1018



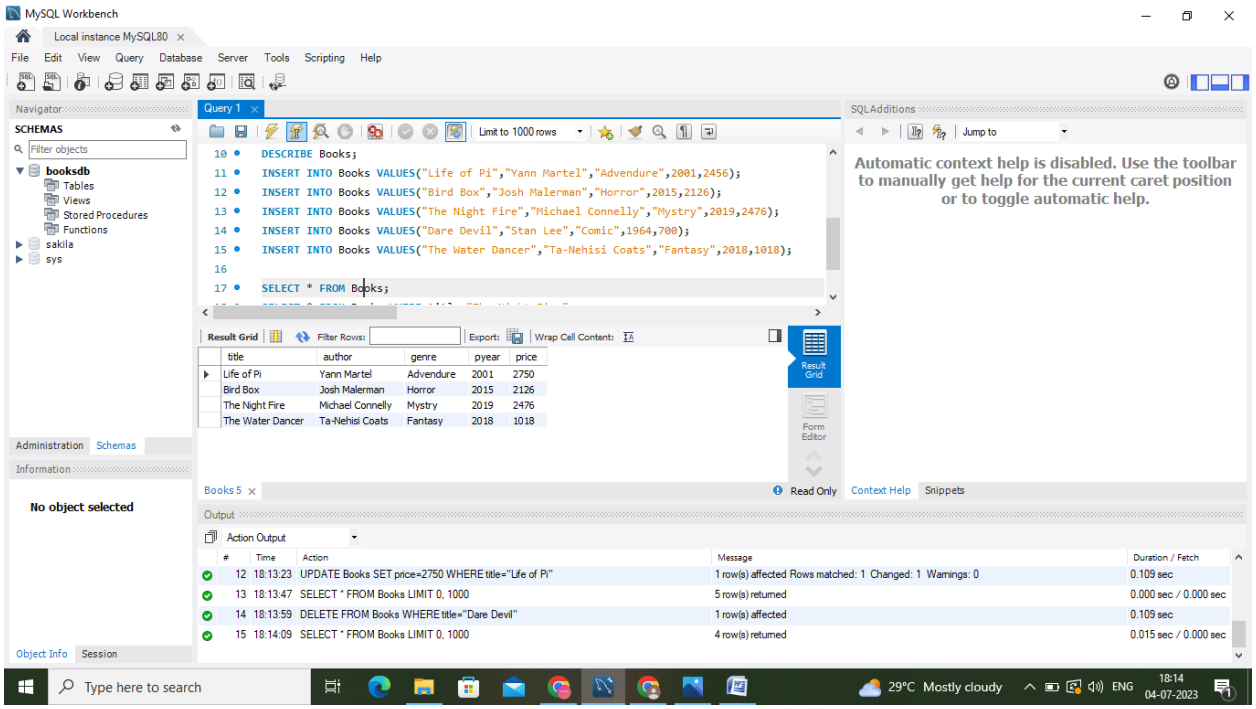
D).Delete a book from the database based on its title:

In this question we use delete method. Using delete method we can delete a any particular row.

Query:

```
DELETE FROM Books WHERE title="Dare Devil";
```

title	author	genre	pyear	price
Life of Pi	Yann Martel	Advendure	2001	2750
Bird Box	Josh Malerman	Horror	2015	2126
The Night Fire	Michael Connelly	Mystry	2019	2476
The Water Dancer	Ta-Nehisi Coats	Fantasy	2018	1018



Final Output:

Final output for the question.