SQL ASSIGNMENT 1

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Question:

Once upon a time, in a small town called SQLville, there was a renowned bookstore named "Books & Bytes." The store had a vast collection of books, ranging from classic literature to modern technology.As part of their college curriculum, the students of SQLville University were tasked with learning the basics of MySQL and database management. To make the learning experience more interactive and practical, the bookstore decided to collaborate with the university and create a hands-on assignment for the students. Assignment: You are a student studying computer science at SQLville University, and you have recently started your journey into the world of databases and SQL. The assignment given to you by "Books & Bytes" is as follows: 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. 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. Your task is to complete the assignment by writing the required SQL queries and demonstrating your understanding of basic MySQL concepts.

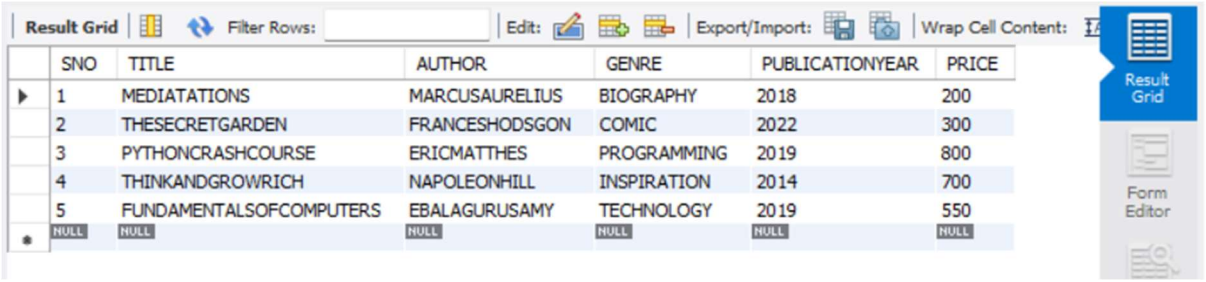
ANSWER:

a . Retrieve all the books from the database.

```
CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOK(

SNO INT PRIMARY KEY ,

TITLE VARCHAR(50),

AUTHOR VARCHAR(30),
```

```
GENRE VARCHAR(30),
PUBLICATIONYEAR INT ,
PRICE INT
);
DESCRIBE BOOK;
INSERT INTO BOOK
VALUES(1,"MEDIATATIONS","MARCUSAURELIUS","BIOGRAPHY",201
8,200);
INSERT INTO BOOK
VALUES(2,"THESECRETGARDEN","FRANCESHODSGON","COMIC",202
2,300);
INSERT INTO BOOK
VALUES(3,"PYTHONCRASHCOURSE","ERICMATTHES","PROGRAMMI
NG",2019,800);
INSERT INTO BOOK
VALUES(4,"THINKANDGROWRICH","NAPOLEONHILL","INSPIRATION
",2014,700);
INSERT INTO BOOK
VALUES(5,"FUNDAMENTALSOFCOMPUTERS","EBALAGURUSAMY","
TECHNOLOGY",2019,550);
SELECT * FROM BOOK;
```

OUTPUT:



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

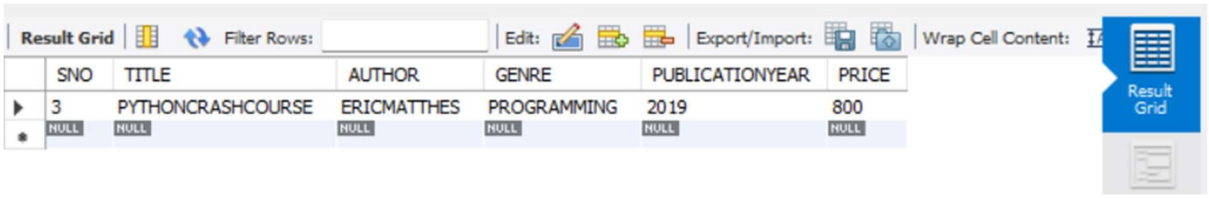
SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
1	MEDIATATIONS	MARCUSAURELIUS	BIOGRAPHY	2018	200
2	THESECRETGARDEN	FRANCESHODSGON	COMIC	2022	300
3	PYTHONCRASHCOURSE	ERICMATTHES	PROGRAMMING	2019	800
4	THINKANDGROWRICH	NAPOLEONHILL	INSPIRATION	2014	700
5	FUNDAMENTALSOFCOMPUTERS	EBALAGURUSAMY	TECHNOLOGY	2019	550
NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor

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

```
CREATE DATABASE BOOKSDB;
USE BOOKSDB;
CREATE TABLE BOOK(
```

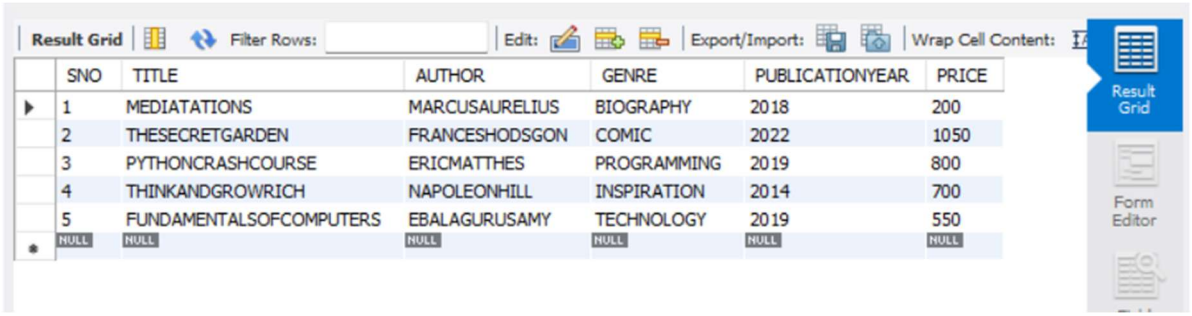
```
SNO INT PRIMARY KEY ,
TITLE VARCHAR(50),
AUTHOR VARCHAR(30),
GENRE VARCHAR(30),
PUBLICATIONYEAR INT ,
PRICE INT
);
DESCRIBE BOOK;
INSERT INTO BOOK
VALUES(1,"MEDIATATIONS","MARCUSAURELIUS","BIOGRAPHY",201
8,200);
INSERT INTO BOOK
VALUES(2,"THESECRETGARDEN","FRANCESHODSGON","COMIC",202
2,300);
INSERT INTO BOOK
VALUES(3,"PYTHONCRASHCOURSE","ERICMATTHES","PROGRAMMI
NG",2019,800);
INSERT INTO BOOK
VALUES(4,"THINKANDGROWRICH","NAPOLEONHILL","INSPIRATION
",2014,700);
INSERT INTO BOOK
VALUES(5,"FUNDAMENTALSOFCOMPUTERS","EBALAGURUSAMY","
TECHNOLOGY",2019,550);
SELECT * FROM BOOK WHERE TITLE="PYTHONCRASHCOURSE";
```



C. Update the price of a book

```
CREATE DATABASE BOOKSDB;
USE BOOKSDB;
```

```
CREATE TABLE BOOK(
SNO INT PRIMARY KEY ,
TITLE VARCHAR(50),
AUTHOR VARCHAR(30),
GENRE VARCHAR(30),
PUBLICATIONYEAR INT ,
PRICE INT
);
DESCRIBE BOOK;
INSERT INTO BOOK
VALUES(1,"MEDIATATIONS","MARCUSAURELIUS","BIOGRAPHY",201
8,200);
INSERT INTO BOOK
VALUES(2,"THESECRETGARDEN","FRANCESHODSGON","COMIC",202
2,300);
INSERT INTO BOOK
VALUES(3,"PYTHONCRASHCOURSE","ERICMATTHES","PROGRAMMI
NG",2019,800);
INSERT INTO BOOK
VALUES(4,"THINKANDGROWRICH","NAPOLEONHILL","INSPIRATION
",2014,700);
INSERT INTO BOOK
VALUES(5,"FUNDAMENTALSOFCOMPUTERS","EBALAGURUSAMY","
TECHNOLOGY",2019,550);
UPDATE BOOK SET PRICE=1050 WHERE SNO=2;
SELECT * FROM BOOK;
```



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NULL	NULL	NULL	NULL	NULL	NULL

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

```
CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOK(

SNO INT PRIMARY KEY ,

TITLE VARCHAR(50),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT ,

PRICE INT

);

DESCRIBE BOOK;

INSERT INTO BOOK
VALUES(1,"MEDIATATIONS","MARCUSAURELIUS","BIOGRAPHY",201
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VALUES(3,"PYTHONCRASHCOURSE","ERICMATTHES","PROGRAMMI
NG",2019,800);

INSERT INTO BOOK
VALUES(4,"THINKANDGROWRICH","NAPOLEONHILL","INSPIRATION
",2014,700);

INSERT INTO BOOK
VALUES(5,"FUNDAMENTALSOFCOMPUTERS","EBALAGURUSAMY","
TECHNOLOGY",2019,550);

DELETE FROM BOOK WHERE TITLE="THINKANDGROWRICH";

SELECT *  FROM BOOK;
```

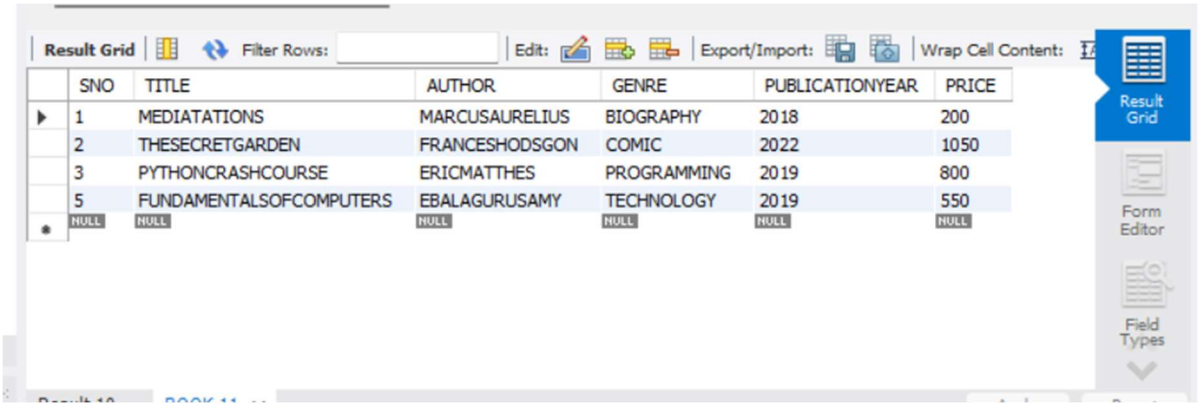

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NULL	NULL	NULL	NULL	NULL	NULL