MYSQL ASSIGNMENT – 1

NAME : D. Sai Ramesh

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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.CREATE

ANSWER :

a. Retrieve all the books from the database

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DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS(

SNO INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),
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GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE INT

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE INDIAN STORY","BIMAL JALAL","HISTORY",1978,480);

INSERT INTO BOOKS VALUES(2,"A PLACE CALLED HOME","PREETI SHENOY","MEMORIES OF HOME",2003,790);

INSERT INTO BOOKS VALUES(3,"LAL SALAM","SHASHI THAROOR","POLITICS",1984,467);

INSERT INTO BOOKS VALUES(4,"QUEEN OF FIRE","DEVIKA RANGACHARI","RELIGIOUS",1996,367);

INSERT INTO BOOKS VALUES(5,"HEAR YOURSELF","RAJESH TALWAR","INSPIRATIONAL CONTENT",2006,683);

SELECT * FROM BOOKS;

SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
1	THE INDIAN STORY	BIMAL JALAL	HISTORY	1978	480
2	A PLACE CALLED HOME	PREETI SHENOY	MEMORIES OF HOME	2003	790
3	LAL SALAM	SHASHI THAROOR	POLITICS	1984	467
4	QUEEN OF FIRE	DEVIKA RANGACHARI	RELIGIOUS	1996	367
5	HEAR YOURSELF	RAJESH TALWAR	INSPIRATIONAL CONTENT	2006	683
NULL	NULL	NULL	NULL	NULL	NULL

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

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS(

SNO INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE INT

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE INDIAN STORY","BIMAL JALAL","HISTORY",1978,480);
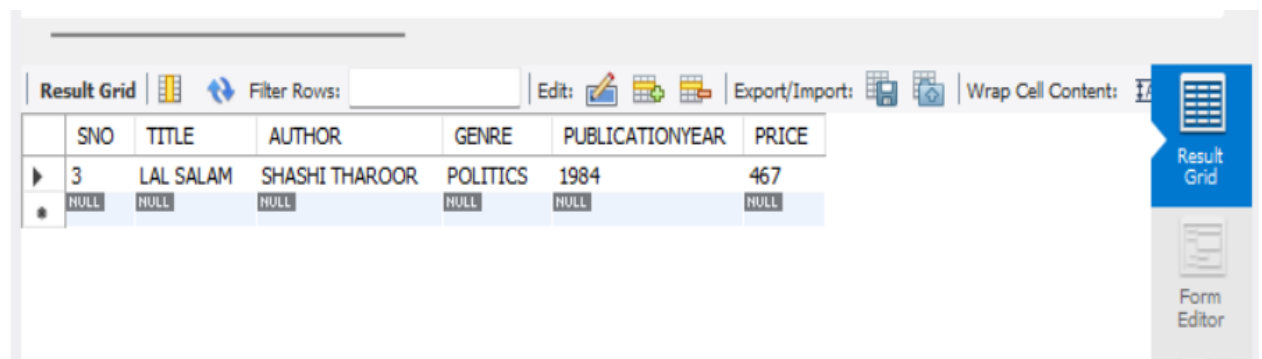
INSERT INTO BOOKS VALUES(2,"A PLACE CALLED HOME","PREETI SHENOY","MEMORIES OF HOME",2003,790);

INSERT INTO BOOKS VALUES(3,"LAL SALAM","SHASHI THAROOR","POLITICS",1984,467);

INSERT INTO BOOKS VALUES(4,"QUEEN OF FIRE","DEVIKA RANGACHARI","RELIGIOUS",1996,367);

INSERT INTO BOOKS VALUES(5,"HEAR YOURSELF","RAJESH TALWAR","INSPIRATIONAL CONTENT",2006,683);

SELECT * FROM BOOKS WHERE TITLE = "LAL SALAM";

c. Update the price of a book.

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS(

SNO INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE INT

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE INDIAN STORY","BIMAL JALAL","HISTORY",1978,480);

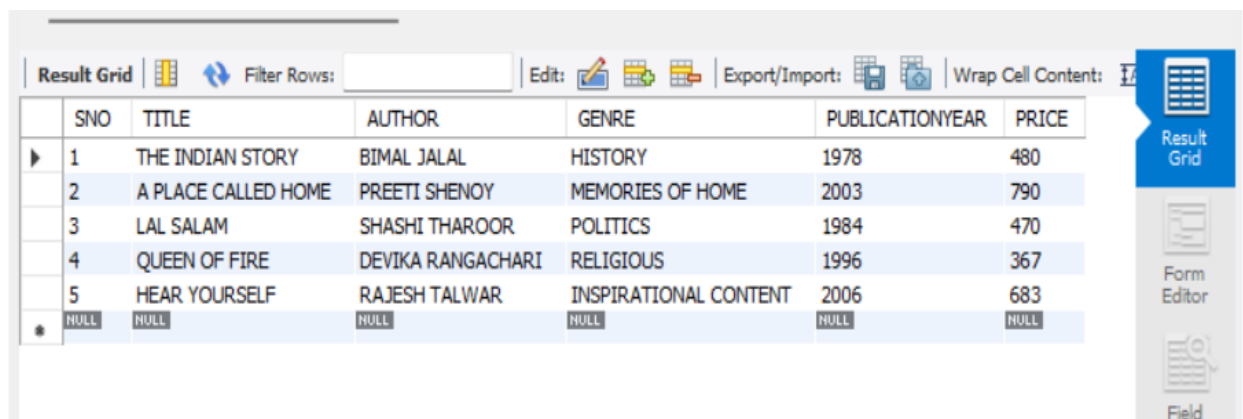INSERT INTO BOOKS VALUES(2,"A PLACE CALLED HOME","PREETI SHENOY","MEMORIES OF HOME",2003,790);

INSERT INTO BOOKS VALUES(3,"LAL SALAM","SHASHI THAROOR","POLITICS",1984,467);

INSERT INTO BOOKS VALUES(4,"QUEEN OF FIRE","DEVIKA RANGACHARI","RELIGIOUS",1996,367);

INSERT INTO BOOKS VALUES(5,"HEAR YOURSELF","RAJESH TALWAR","INSPIRATIONAL CONTENT",2006,683);

UPDATE BOOKS SET PRICE = 470 WHERE SNO=3;

SELECT * FROM BOOKS;

SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
1	THE INDIAN STORY	BIMAL JALAL	HISTORY	1978	480
2	A PLACE CALLED HOME	PREETI SHENOY	MEMORIES OF HOME	2003	790
3	LAL SALAM	SHASHI THAROOR	POLITICS	1984	470
4	QUEEN OF FIRE	DEVIKA RANGACHARI	RELIGIOUS	1996	367
5	HEAR YOURSELF	RAJESH TALWAR	INSPIRATIONAL CONTENT	2006	683
NULL	NULL	NULL	NULL	NULL	NULL

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

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS(

SNO INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE INT

```sql
);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE INDIAN STORY","BIMAL JALAL","HISTORY",1978,480);

INSERT INTO BOOKS VALUES(2,"A PLACE CALLED HOME","PREETI SHENOY","MEMORIES OF
HOME",2003,790);

INSERT INTO BOOKS VALUES(3,"LAL SALAM","SHASHI THAROOR","POLITICS",1984,467);

INSERT INTO BOOKS VALUES(4,"QUEEN OF FIRE","DEVIKA RANGACHARI","RELIGIOUS",1996,367);

INSERT INTO BOOKS VALUES(5,"HEAR YOURSELF","RAJESH TALWAR","INSPIRATIONAL
CONTENT",2006,683);


DELETE FROM BOOKS WHERE TITLE="THE INDIAN STORY";

SELECT * FROM BOOKS;
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