MY SQL ASSIGNMENT-1

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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.

QUESTIONS

Write SQL queries to perform the following tasks:

  a. Retrieve all the books from the database.

```
CREATE DATABASE BOOKSDB;
use BOOKSDB;
```

```
CREATE TABLE BOOKS (
ID INT PRIMARY KEY,
TITLE VARCHAR(30),
AUTHOR VARCHAR(30),
GENRE VARCHAR(30),
PUBLICATIONYEAR INT,
price INT
);
DESCRIBE BOOKS;
INSERT INTO BOOKS VALUES(1,"THE MODERN BREKUP"," DANIEL
CHIDIAC","ROMANCE",2021,550);
INSERT INTO BOOKS VALUES(2,"NA ISTAM","
RAMGOPALVARMA","AUTOBIOGRAPHY",2022,450);
INSERT INTO BOOKS VALUES(3,"THE REAL
YOGI","GANA","BIOGRAPHY",2022,750);
INSERT INTO BOOKS VALUES(4,"EXPLORERS ON THE
MOON","HERGE","ADVENTURE",2021,930);
INSERT INTO BOOKS VALUES(5,"HOME BEFORE
DARK","RILEY","HORROR",2021,350);
SELECT* FROM Books
```

OUTPUT:

ID	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	price
1	THE MODERN BREKUP	DANIEL CHIDIAC	ROMANCE	2021	550
2	NA ISTAM	RAMGOPALVARMA	AUTOBIOGRAPHY	2022	450
3	THE REAL YOGI	GANA	BIOGRAPHY	2022	750
4	EXPLORERS ON THE MOON	HERGE	ADVENTURE	2021	930
5	HOME BEFORE DARK	RILEY	HORROR	2021	350
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 (

ID INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

price INT
```

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE MODERN BREKUP"," DANIEL CHIDIAC","ROMANCE",2021,550);

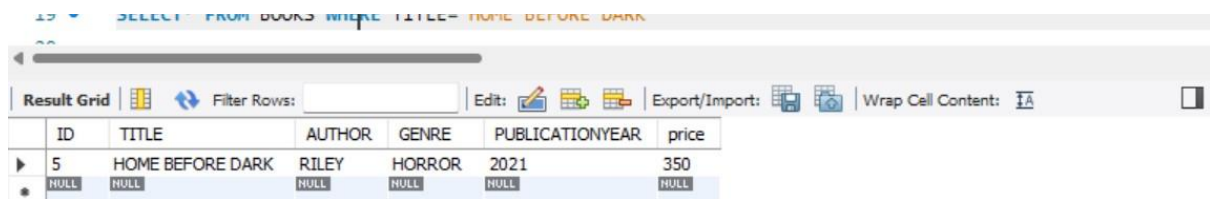INSERT INTO BOOKS VALUES(2,"NA ISTAM"," RAMGOPALVARMA","AUTOBIOGRAPHY",2022,450);

INSERT INTO BOOKS VALUES(3,"THE REAL YOGI","GANA","BIOGRAPHY",2022,750);

INSERT INTO BOOKS VALUES(4,"EXPLORERS ON THE MOON","HERGE","ADVENTURE",2021,930);

INSERT INTO BOOKS VALUES(5,"HOME BEFORE DARK","RILEY","HORROR",2021,350);

SELECT* FROM BOOKS WHERE TITLE="HOME BEFORE DARK"

OUTPUT:

c. Update the price of a book.

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS (

ID INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

price INT

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE MODERN BREKUP"," DANIEL CHIDIAC","ROMANCE",2021,550);

INSERT INTO BOOKS VALUES(2,"NA ISTAM"," RAMGOPALVARMA","AUTOBIOGRAPHY",2022,450);

INSERT INTO BOOKS VALUES(3,"THE REAL YOGI","GANA","BIOGRAPHY",2022,750);

INSERT INTO BOOKS VALUES(4,"EXPLORERS ON THE MOON","HERGE","ADVENTURE",2021,930);

INSERT INTO BOOKS VALUES(5,"HOME BEFORE DARK","RILEY","HORROR",2021,350);

UPDATE BOOKS SET PRICE=1250 WHERE ID=3;

SELECT*FROM BOOKS;

OUTPUT:

ID	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	price
1	THE MODERN BREKUP CHIDIAC		ROMANCE	2021	550
2	NA ISTAM	RAMGOPALVARMA	AUTOBIOGRAPHY	2022	450
3	THE REAL YOGI	GANA	BIOGRAPHY	2022	1250
4	EXPLORERS ON THE MOON	HERGE	ADVENTURE	2021	930
5	HOME BEFORE DARK	RILEY	HORROR	2021	350
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 (

ID INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE INT

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE MODERN BREKUP"," DANIEL CHIDIAC","ROMANCE",2021,550);

INSERT INTO BOOKS VALUES(2,"NA ISTAM"," RAMGOPALVARMA","AUTOBIOGRAPHY",2022,450);

INSERT INTO BOOKS VALUES(3,"THE REAL YOGI","GANA","BIOGRAPHY",2022,750);

INSERT INTO BOOKS VALUES(4,"EXPLORERS ON THE MOON","HERGE","ADVENTURE",2021,930);

INSERT INTO BOOKS VALUES(5,"HOME BEFORE DARK","RILEY","HORROR",2021,350);

DELETE FROM BOOKS WHERE TITLE="THE REAL YOGI";

SELECT * FROM BOOKS;

OUTPUT:

ID	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	price
1	THE MODERN BREKUP	DANIEL CHIDIAC	ROMANCE	2021	550
2	NA ISTAM	RAMGOPALVARMA	AUTOBIOGRAPHY	2022	450
4	EXPLORERS ON THE MOON	HERGE	ADVENTURE	2021	930
5	HOME BEFORE DARK	RILEY	HORROR	2021	350
NULL	NULL	NULL	NULL	NULL	NULL