

## **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 BOOKS(
```

```
SNO INT PRIMARY KEY ,
```

```

TITLE VARCHAR(50),
AUTHOR VARCHAR(30),
GENRE VARCHAR(30),
PUBLICATIONYEAR INT ,
PRICE INT
);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE REAL
YOGI","GANA","BIOGRAPHY",2022,500);

INSERT INTO BOOKS VALUES(2,"NA
ISHTAM","RAMGOPALVARMA","AUTOBIOGRAPHY",2022,300);

INSERT INTO BOOKS VALUES(3,"EXPLORERS ON THE
MOON","HERGE","ADVENTURE",2013,1100);

INSERT INTO BOOKS VALUES(4,"HOME BEFORE
DARK","RILEY","HORROR",2021,650);

INSERT INTO BOOKS VALUES(5,"THE MODERN BREAKUP","DANIEL
CHIDIAC","ROMANCE",2021,550);

SELECT * FROM BOOKS;

```

### Output:

Result Grid						
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:
SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE	
1	THE REAL YOGI	GANNA	BIOGRAPHY	2022	500	
2	NA ISHTAM	RAMGOPALVARMA	AUTOBIOGRAPHY	2022	300	
3	EXPLORERS ON THE MOON	HERGE	ADVENTURE	2013	1100	
4	HOME BEFORE DARK	RILEY	HORROR	2021	650	
5	THE MODERN BREAKUP	DANIEL CHIDIAC	ROMANCE	2021	550	
6	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(50),
AUTHOR VARCHAR(30),
GENRE VARCHAR(30),
PUBLICATIONYEAR INT ,
PRICE INT
);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE REAL
YOGI","GANA","BIOGRAPHY",2022,500);

INSERT INTO BOOKS VALUES(2,"NA
ISHTAM","RAMGOPALVARMA","AUTOBIOGRAPHY",2022,300);

INSERT INTO BOOKS VALUES(3,"EXPLORERS ON THE
MOON","HERGE","ADVENTURE",2013,1100);

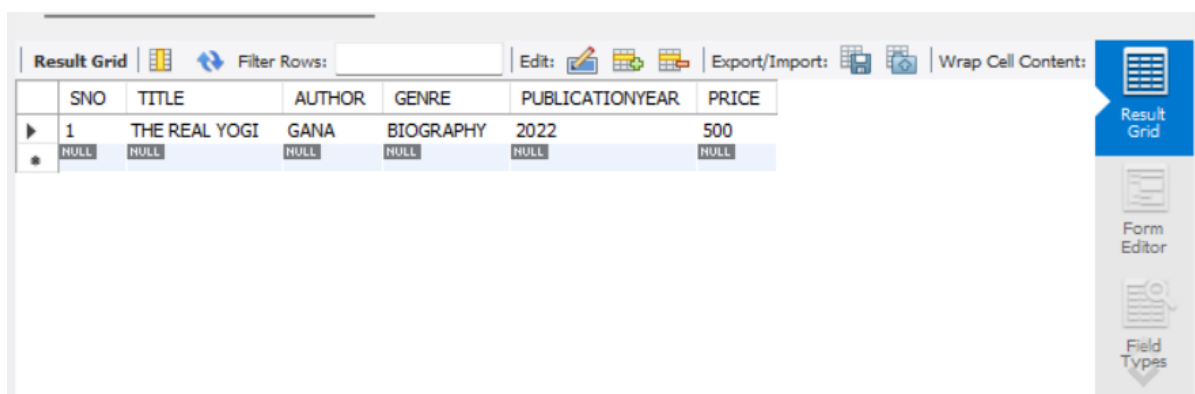
INSERT INTO BOOKS VALUES(4,"HOME BEFORE
DARK","RILEY","HORROR",2021,650);

INSERT INTO BOOKS VALUES(5,"THE MODERN BREAKUP","DANIEL
CHIDIAC","ROMANCE",2021,550);

SELECT * FROM BOOKS WHERE TITLE="THE REAL YOGI"

```

### Output:



The screenshot shows a database application interface. At the top, there is a toolbar with buttons for 'Result Grid', 'Filter Rows', 'Edit', 'Export/Import', and 'Wrap Cell Content'. Below the toolbar is a table with the following columns: SNO, TITLE, AUTHOR, GENRE, PUBLICATIONYEAR, and PRICE. The table contains one row of data: SNO 1, TITLE 'THE REAL YOGI', AUTHOR 'GANA', GENRE 'BIOGRAPHY', PUBLICATIONYEAR 2022, and PRICE 500. Below the table, there is a 'Form Editor' and 'Field Types' section.

SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
1	THE REAL YOGI	GANA	BIOGRAPHY	2022	500

### c. Update the price of a book.

```

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

```

```

CREATE TABLE BOOKS(
SNO INT PRIMARY KEY ,
TITLE VARCHAR(50),
AUTHOR VARCHAR(30),
GENRE VARCHAR(30),
PUBLICATIONYEAR INT ,
PRICE INT
);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE REAL
YOGI","GANA","BIOGRAPHY",2022,500);

INSERT INTO BOOKS VALUES(2,"NA
ISHTAM","RAMGOPALVARMA","AUTOBIOGRAPHY",2022,300);

INSERT INTO BOOKS VALUES(3,"EXPLORERS ON THE
MOON","HERGE","ADVENTURE",2013,1100);

INSERT INTO BOOKS VALUES(4,"HOME BEFORE
DARK","RILEY","HORROR",2021,650);

INSERT INTO BOOKS VALUES(5,"THE MODERN BREAKUP","DANIEL
CHIDIAC","ROMANCE",2021,550);

UPDATE BOOKS SET PRICE=1050 WHERE SNO=1;

SELECT * FROM BOOKS;

```

### Output:

Result Grid						
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:
SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE	
1	THE REAL YOGI	GANNA	BIOGRAPHY	2022	1050	
2	NA ISHTAM	RAMGOPALVARMA	AUTOBIOGRAPHY	2022	300	
3	EXPLORERS ON THE MOON	HERGE	ADVENTURE	2013	1100	300
4	HOME BEFORE DARK	RILEY	HORROR	2021	650	
5	THE MODERN BREAKUP	DANIEL CHIDIAC	ROMANCE	2021	550	
*	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(50),
AUTHOR VARCHAR(30),
GENRE VARCHAR(30),
PUBLICATIONYEAR INT ,
PRICE INT
);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE REAL
YOGI","GANA","BIOGRAPHY",2022,500);

INSERT INTO BOOKS VALUES(2,"NA
ISHTAM","RAMGOPALVARMA","AUTOBIOGRAPHY",2022,300);

INSERT INTO BOOKS VALUES(3,"EXPLORERS ON THE
MOON","HERGE","ADVENTURE",2013,1100);

INSERT INTO BOOKS VALUES(4,"HOME BEFORE
DARK","RILEY","HORROR",2021,650);

INSERT INTO BOOKS VALUES(5,"THE MODERN BREAKUP","DANIEL
CHIDIAC","ROMANCE",2021,550);

DELETE FROM BOOKS WHERE TITLE="NA ISHTAM";
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
▶	1	THE REAL YOGI	GANA	BIOGRAPHY	2022	1050
	3	EXPLORERS ON THE MOON	HERGE	ADVENTURE	2013	1100
	4	HOME BEFORE DARK	RILEY	HORROR	2021	650
	5	THE MODERN BREAKUP	DANIEL CHIDIAC	ROMANCE	2021	550
✱	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid

Form Editor

Field Types

