

MYSQL ASSIGNMENT – 1

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ROLL NO : 20AD039

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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.

Good luck with your assignment, and may your SQL skills shine brightly in the realm of databases!

ANSWER :

A.Retrieve all the books from the database.

```
-- TO CREATE A DATABASE
```

```
SHOW DATABASES;
```

```
CREATE DATABASE BooksDB;
```

```
USE BooksDB;
```

```
CREATE TABLE Books(  
SNo INT PRIMARY KEY,  
TITLE VARCHAR(30),  
AUTHOR VARCHAR(40),  
GENRE VARCHAR(40),  
PUBLICATIONYEAR INT ,  
PRICE INT  
);
```

```
DESCRIBE Books;
```

```
INSERT INTO Books VALUES(1,"ODYSSEY","C.CLARKE","20TH CENTURY SCIENCE FICTION",1982,167);
```

```
INSERT INTO Books VALUES(2,"THE YEAR OF MAGNA CARTA","DANNY  
DANZIGER","HISTORY,MEDIEVAL,BRITISH LITERATURE",2003,285);
```

```
INSERT INTO Books VALUES(3,"THE YEAR THAT ROCKED THE WORLD","MARK  
KURLANSKY","POLITICS,SOCIOLOGY,NONFICTION",2004,189);
```

```
INSERT INTO Books VALUES(4,"THE YEAR OF THE CONQUEST","DAVID HOWARTH","BRITISH  
LITERATURE, WAR",1977,520);
```

```
INSERT INTO Books VALUES(5,"COUNTDOWN TO WAR","RICHARD OVERY","WORLD WARII, MILITARY  
HISTORY, POLITICS",2009,980);
```

```
SELECT * FROM Books;
```

19 • **SELECT * FROM Books;**

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	SNo	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
▶	1	ODYSSEY	C.CLARKE	20TH CENTURY SCIENCE FICTION	1982	167
	2	THE YEAR OF MAGNA CARTA	DANNY DANZIGER	HISTORY,MEDIEVAL,BRITISH LITERATURE	2003	285
	3	THE YEAR THAT ROCKED THE WORLD	MARK KURLANSKY	POLITICS,SOCIOLOGY,NONFICTION	2004	189
	4	THE YEAR OF THE CONQUEST	DAVID HOWARTH	BRITISH LITERATURE, WAR	1977	520
	5	COUNTDOWN TO WAR	RICHARD OVERY	WORLD WARII, MILITARY HISTORY, POLITICS	2009	980
*	NULL	NULL	NULL	NULL	NULL	NULL

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

-- TO CREATE A DATABASE

SHOW DATABASES;

CREATE DATABASE BooksDB;

USE BooksDB;

```
CREATE TABLE Books(  
SNo INT PRIMARY KEY,  
TITLE VARCHAR(30),  
AUTHOR VARCHAR(40),  
GENRE VARCHAR(40),  
PUBLICATIONYEAR INT ,  
PRICE INT  
);
```

DESCRIBE Books;

INSERT INTO Books VALUES(1,"ODYSSEY","C.CLARKE","20TH CENTURY SCIENCE FICTION",1982,167);

INSERT INTO Books VALUES(2,"THE YEAR OF MAGNA CARTA","DANNY
DANZIGER","HISTORY,MEDIEVAL,BRITISH LITERATURE",2003,285);

INSERT INTO Books VALUES(3,"THE YEAR THAT ROCKED THE WORLD","MARK
KURLANSKY","POLITICS,SOCIOLOGY,NONFICTION",2004,189);








INSERT INTO Books VALUES(4,"THE YEAR OF THE CONQUEST","DAVID HOWARTH","BRITISH
LITERATURE, WAR",1977,520);

INSERT INTO Books VALUES(5,"COUNTDOWN TO WAR","RICHARD OVERY","WORLD WARII, MILITARY
HISTORY, POLITICS",2009,980);

SELECT * FROM Books WHERE TITLE="THE YEAR THAT ROCKED THE WORLD";

20

21 • `SELECT * FROM Books WHERE TITLE="THE YEAR THAT ROCKED THE WORLD";`

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

	SNo	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
▶	3	THE YEAR THAT ROCKED THE WORLD	MARK KURLANSKY	POLITICS,SOCIOLOGY,NONFICTION	2004	189
•	NULL	NULL	NULL	NULL	NULL	NULL

c. Update the price of a book.

-- TO CREATE A DATABASE

SHOW DATABASES;

CREATE DATABASE BooksDB;

USE BooksDB;

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CREATE TABLE Books(  
SNo INT PRIMARY KEY,  
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AUTHOR VARCHAR(40),  
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PRICE INT  
);
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DESCRIBE Books;

INSERT INTO Books VALUES(1,"ODYSSEY","C.CLARKE","20TH CENTURY SCIENCE FICTION",1982,167);

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DANZIGER","HISTORY,MEDIEVAL,BRITISH LITERATURE",2003,285);

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KURLANSKY","POLITICS,SOCIOLOGY,NOFICTION",2004,189);

INSERT INTO Books VALUES(4,"THE YEAR OF THE CONQUEST","DAVID HOWARTH","BRITISH
LITERATURE, WAR",1977,520);

INSERT INTO Books VALUES(5,"COUNTDOWN TO WAR","RICHARD OVERY","WORLD WARII, MILITARY
HISTORY, POLITICS",2009,980);

UPDATE Books SET PRICE = 320 WHERE SNo=2;

SELECT * FROM Books;

23 • UPDATE Books SET PRICE = 320 WHERE SNo=2;
24 • SELECT * FROM Books;

	SNo	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
▶	1	ODYSSEY	C.CLARKE	20TH CENTURY SCIENCE FICTION	1982	167
	2	THE YEAR OF MAGNA CARTA	DANNY DANZIGER	HISTORY,MEDIEVAL,BRITISH LITERATURE	2003	320
	3	THE YEAR THAT ROCKED THE WORLD	MARK KURLANSKY	POLITICS,SOCIOLOGY,NOFICTION	2004	189
	4	THE YEAR OF THE CONQUEST	DAVID HOWARTH	BRITISH LITERATURE, WAR	1977	520
	5	COUNTDOWN TO WAR	RICHARD OVERY	WORLD WARII, MILITARY HISTORY, POLITICS	2009	980
*	NULL	NULL	NULL	NULL	NULL	NULL

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

-- TO CREATE A DATABASE

SHOW DATABASES;

CREATE DATABASE BooksDB;

USE BooksDB;

```
CREATE TABLE Books(  
SNo INT PRIMARY KEY,  
TITLE VARCHAR(30),  
AUTHOR VARCHAR(40),  
GENRE VARCHAR(40),  
PUBLICATIONYEAR INT ,  
PRICE INT  
);
```

DESCRIBE Books;

INSERT INTO Books VALUES(1,"ODYSSEY","C.CLARKE","20TH CENTURY SCIENCE FICTION",1982,167);

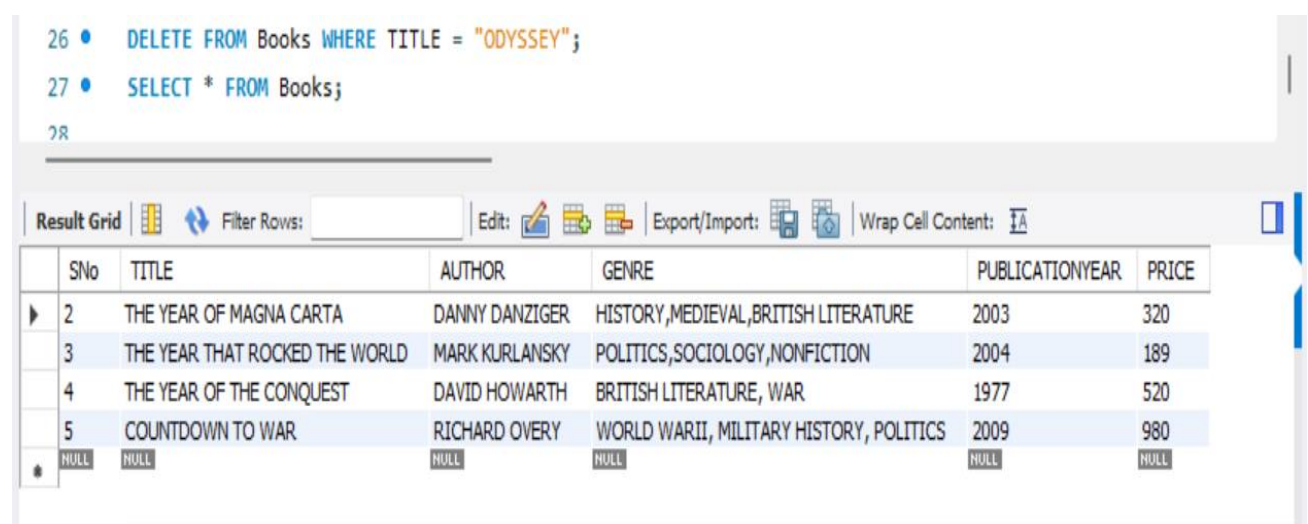
INSERT INTO Books VALUES(2,"THE YEAR OF MAGNA CARTA","DANNY DANZIGER","HISTORY,MEDIEVAL,BRITISH LITERATURE",2003,285);

INSERT INTO Books VALUES(3,"THE YEAR THAT ROCKED THE WORLD","MARK KURLANSKY","POLITICS,SOCIOLOGY,NOFICTION",2004,189);

INSERT INTO Books VALUES(4,"THE YEAR OF THE CONQUEST","DAVID HOWARTH","BRITISH LITERATURE, WAR",1977,520);

INSERT INTO Books VALUES(5,"COUNTDOWN TO WAR","RICHARD OVERY","WORLD WARII, MILITARY HISTORY, POLITICS",2009,980);

```
DELETE FROM Books WHERE TITLE = "ODYSSEY";  
SELECT * FROM Books;
```



The screenshot shows a database management interface. At the top, two SQL commands are entered in a text area:

```
26 • DELETE FROM Books WHERE TITLE = "ODYSSEY";  
27 • SELECT * FROM Books;
```

Below the text area is a "Result Grid" tab. The grid displays the results of the second query, showing a list of books. The columns are SNo, TITLE, AUTHOR, GENRE, PUBLICATIONYEAR, and PRICE. The data rows are:

SNo	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
2	THE YEAR OF MAGNA CARTA	DANNY DANZIGER	HISTORY,MEDIEVAL,BRITISH LITERATURE	2003	320
3	THE YEAR THAT ROCKED THE WORLD	MARK KURLANSKY	POLITICS,SOCIOLOGY,NOFICTION	2004	189
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*	NULL	NULL	NULL	NULL	NULL

