

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:

```
create database BooksDB;
```

```
use BooksDB;
```

```
create table Books (
```

```
bookid int primary key /*auto_increment*/,
```

```
title varchar(100),
```

```
author varchar(100),
```

```
introduced_time int,
```

```
price decimal(8,2),
```

```
based varchar (50)
```

);

insert into Books values(1,"Romio juliut","A.r.Murugadhas",2016,80.00,"Romance");

insert into Books values(2,"Avengers","kevin fige",2010,150.00,"Fantosy");

insert into Books values(3,"Iron man","chatbig posman",2008,100.00,"Scince Fiction");

insert into Books values(4,"brahmastra","Kumaran",2022,120.00,"Mystery");

insert into Books values(5,"Kanchana","Ragava lawrence",2012,180.00,"thriller");

insert into Books values(6,"Doctor","Nelson",2020,130.00,"Comedy");

select*from Books;

bookid	title	author	introduced_time	price	based
1	Romio juliut	A.r.Murugadhas	2016	80.00	Romance
2	Avengers	kevin fige	2010	150.00	Fantosy
3	Iron man	chatbig posman	2008	140.50	Scince Fiction
4	brahmastra	Kumaran	2022	120.00	Mystery
5	Kanchana	Ragava lawrence	2012	180.00	thriller
6	Doctor	Nelson	2020	130.00	Comedy

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

create database BooksDB;

use BooksDB;

create table Books (

bookid int primary key /*auto_increment*/,

title varchar(100),

author varchar(100),

introduced_time int,

price decimal(8,2),

based varchar (50)

);

insert into Books values(1,"Romio juliut","A.r.Murugadhas",2016,80.00,"Romance");

insert into Books values(2,"Avengers","kevin fige",2010,150.00,"Fantosy");

insert into Books values(3,"Iron man","chatbig posman",2008,100.00,"Scince Fiction");

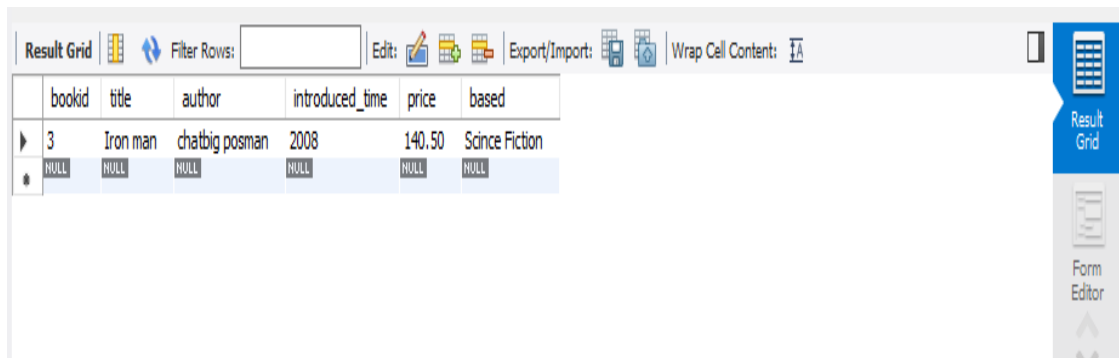
insert into Books values(4,"brahmastra","Kumaran",2022,120.00,"Mystery");

insert into Books values(5,"Kanchana","Ragava lawrence",2012,180.00,"thriller");

insert into Books values(6,"Doctor","Nelson",2020,130.00,"Comedy");

select*from Books;

```
select * from Books where title ="Iron man";
```



The screenshot shows a database management interface. At the top, there is a toolbar with icons for 'Result Grid', 'Filter Rows', 'Edit', 'Export/Import', and 'Wrap Cell Content'. Below the toolbar is a table with the following columns: bookid, title, author, introduced_time, price, and based. The first row of data shows bookid 3, title 'Iron man', author 'chatbig posman', introduced_time 2008, price 140.50, and based 'Scince Fiction'. Below this row, there are two rows of 'NULL' values. On the right side of the interface, there is a vertical sidebar with buttons for 'Result Grid' and 'Form Editor'.

bookid	title	author	introduced_time	price	based
3	Iron man	chatbig posman	2008	140.50	Scince Fiction
NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL

C.Update the price of a book.

```
create database BooksDB;
```

```
use BooksDB;
```

```
create table Books (
```

```
bookid int primary key /*auto_increment*/,
```

```
title varchar(100),
```

```
author varchar(100),
```

```
introduced_time int,
```

```
price decimal(8,2),
```

```
based varchar (50)
```

```
);
```

```
insert into Books values(1,"Romio juliut","A.r.Murugadhas",2016,80.00,"Romance");
```

```
insert into Books values(2,"Avengers","kevin fige",2010,150.00,"Fantosy");
```

```
insert into Books values(3,"Iron man","chatbig posman",2008,100.00,"Scince Fiction");
```

```
insert into Books values(4,"brahmastra","Kumaran",2022,120.00,"Mystery");
```

```
insert into Books values(5,"Kanchana","Ragava lawrence",2012,180.00,"thriller");
```

```
insert into Books values(6,"Doctor","Nelson",2020,130.00,"Comedy");
```

```
select*from Books;
```

```
select * from Books where title ="Iron man";
```

```
update Books set price=140.50 where bookid=3;
```

```
select*from Books;
```

Result Grid						
	bookid	title	author	introduced_time	price	based
1	Romio juliut	A.r.Murugadhas	2016	80.00	Romance	
2	Avengers	kevin fige	2010	150.00	Fantasy	
3	Iron man	chatbig posman	2008	140.50	Scince Fiction	
4	brahmastra	Kumaran	2022	120.00	Mystery	
5	Kanchana	Ragava lawrence	2012	180.00	thriller	
6	Doctor	Nelson	2020	130.00	Comedy	
*	NULL	NULL	NULL	NULL	NULL	NULL

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

```
create database BooksDB;
```

```
use BooksDB;
```

```
create table Books (
```

```
bookid int primary key /*auto_increment*/,
```

```
title varchar(100),
```

```
author varchar(100),
```

```
introduced_time int,
```

```
price decimal(8,2),
```

```
based varchar (50)
```

```
);
```

```
insert into Books values(1,"Romio juliut","A.r.Murugadhas",2016,80.00,"Romance");
```

```
insert into Books values(2,"Avengers","kevin fige",2010,150.00,"Fantasy");
```

```
insert into Books values(3,"Iron man","chatbig posman",2008,100.00,"Scince Fiction");
```

```
insert into Books values(4,"brahmastra","Kumaran",2022,120.00,"Mystery");
```

```
insert into Books values(5,"Kanchana","Ragava lawrence",2012,180.00,"thriller");
```

```
insert into Books values(6,"Doctor","Nelson",2020,130.00,"Comedy");
```

```
select*from Books;
```

```
select * from Books where title ="Iron man";
```

```
update Books set price=140.50 where bookid=3;
```

```
select*from Books;
```

```
delete from Books where bookid=2;
```

```
select*from Books;
```

Result Grid						
			Filter Rows:		Edit:	
	bookid	title	author	introduced_time	price	based
▶	1	Romio juliut	A.r.Murugadhas	2016	80.00	Romance
	3	Iron man	chatbig posman	2008	140.50	Scince Fiction
	4	brahmastra	Kumaran	2022	120.00	Mystery
	5	Kanchana	Ragava lawrence	2012	180.00	thriller
	6	Doctor	Nelson	2020	130.00	Comedy
✱	NULL	NULL	NULL	NULL	NULL	NULL