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MySql Assignment -1:

TASK:

To Create a database named "BooksDB" to store information about the bookstore's collection of books.

CODING:

```
create database Bookdb;

use Bookdb;

create table Books (
    title VARCHAR(50),
    author VARCHAR(50),
    genre VARCHAR(50),
    publication_year VARCHAR(50),
    price DECIMAL(5,2)
);

insert into Books values('OnePiece','MOHA','HORROR',2000,100.98);
insert into Books values('Naruto','MILLER','ACTION',2001,199.98);
insert into Books values('Deathnote','VALLAL','THRILLER',2002,299.98);
insert into Books values('Demonslayer','RAKESH','FUNNY',2003,399.98);
insert into Books values('Jujutsukaisan','HARISH','SORROW',2004,499.98);

describe books;

select * from Books;

select * from Books WHERE title='OnePiece';

update Books set price='999.98' where title='Naruto';

delete from Books WHERE title='Jujutsukaisan';

drop database Bookdb;

drop table Books;
```

a. Retrieve all the books from the database:

`select * from Books;`

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
10 insert into Books values('OnePiece','MOHA','HORROR',2000,100.98);
11 insert into Books values('Naruto','MILLER','ACTION',2001,199.98);
12 insert into Books values('Deathnote','VALLAL','THRILLER',2002,299.98);
13 insert into Books values('Demonlayer','RAKESH','FUNNY',2003,399.98);
14 insert into Books values('Jujutsukaisen','HARISH','SORROW',2004,499.98);
15 describe books;
16 select * from Books;
17 select * from Books WHERE title='OnePiece';
18
19 update Books set price='999.98' where title='Naruto';
20
21 delete from Books WHERE title='Jujutsukaisen';
22
```

The Results grid shows the output of the query:

title	author	genre	publication_year	price
OnePiece	MOHA	HORROR	2000	100.98
Naruto	MILLER	ACTION	2001	199.98
Deathnote	VALLAL	THRILLER	2002	299.98
Demonlayer	RAKESH	FUNNY	2003	399.98
Jujutsukaisen	HARISH	SORROW	2004	499.98

The Action Output pane shows the execution details of the queries, including the creation of the database, table, and the insertion of data.

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

`select * from Books WHERE title='OnePiece';`

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
6 genre VARCHAR(50),
7 publication_year VARCHAR(50),
8 price DECIMAL(5,2)
9 );
10 insert into Books values('OnePiece','MOHA','HORROR',2000,100.98);
11 insert into Books values('Naruto','MILLER','ACTION',2001,199.98);
12 insert into Books values('Deathnote','VALLAL','THRILLER',2002,299.98);
13 insert into Books values('Demonlayer','RAKESH','FUNNY',2003,399.98);
14 insert into Books values('Jujutsukaisen','HARISH','SORROW',2004,499.98);
15 describe books;
16 select * from Books;
17 select * from Books WHERE title='OnePiece';
18
```

The Results grid shows the output of the query:

title	author	genre	publication_year	price
OnePiece	MOHA	HORROR	2000	100.98

The Action Output pane shows the execution details of the queries, including the creation of the database, table, and the insertion of data.

C .Update the price of a book:

update Books set price='999.98' where title='Naruto';

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
6  genre VARCHAR(50),
7  publication_year VARCHAR(50),
8  price DECIMAL(5,2)
9  );
10 insert into Books values('OnePiece','MOHA','HORROR',2000,100.98);
11 insert into Books values('Naruto','MILLER','ACTION',2001,199.98);
12 insert into Books values('Deathnote','VALLAL','THRILLER',2002,299.98);
13 insert into Books values('Demonlayer','RAKESH','FUNNY',2003,399.98);
14 insert into Books values('Jujutsukaisan','HARISH','SORROW',2004,499.98);
15 describe books;
16 select * from Books;
17 select * from Books WHERE title='OnePiece';
18
19 update Books set price='999.98' where title='Naruto';
20
21 delete from Books WHERE title='Jujutsukaisan';
22
23 drop database Bookdb;
24 drop table Books;
25
```

The Output window shows the results of the queries:

#	Time	Action	Message	Duration / Fetch
123	16:26:41	insert into Books values('OnePiece','MOHA','HORROR',2000,100.98)	1 row(s) affected	0.047 sec
124	16:26:41	insert into Books values('Naruto','MILLER','ACTION',2001,199.98)	1 row(s) affected	0.000 sec
125	16:26:41	insert into Books values('Deathnote','VALLAL','THRILLER',2002,299.98)	1 row(s) affected	0.000 sec
126	16:26:41	insert into Books values('Demonlayer','RAKESH','FUNNY',2003,399.98)	1 row(s) affected	0.015 sec
127	16:26:41	insert into Books values('Jujutsukaisan','HARISH','SORROW',2004,499.98)	1 row(s) affected	0.000 sec
128	16:27:00	select * from Books LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
129	16:27:14	select * from Books WHERE title='OnePiece' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
130	16:27:30	update Books set price='999.98' where title='Naruto'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec

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

delete from Books WHERE title='Jujutsukaisan';

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
6  genre VARCHAR(50),
7  publication_year VARCHAR(50),
8  price DECIMAL(5,2)
9  );
10 insert into Books values('OnePiece','MOHA','HORROR',2000,100.98);
11 insert into Books values('Naruto','MILLER','ACTION',2001,199.98);
12 insert into Books values('Deathnote','VALLAL','THRILLER',2002,299.98);
13 insert into Books values('Demonlayer','RAKESH','FUNNY',2003,399.98);
14 insert into Books values('Jujutsukaisan','HARISH','SORROW',2004,499.98);
15 describe books;
16 select * from Books;
17 select * from Books WHERE title='OnePiece';
18
19 update Books set price='999.98' where title='Naruto';
20
21 delete from Books WHERE title='Jujutsukaisan';
22
23 drop database Bookdb;
24 drop table Books;
25
```

The Output window shows the results of the queries:

#	Time	Action	Message	Duration / Fetch
124	16:26:41	insert into Books values('Naruto','MILLER','ACTION',2001,199.98)	1 row(s) affected	0.000 sec
125	16:26:41	insert into Books values('Deathnote','VALLAL','THRILLER',2002,299.98)	1 row(s) affected	0.000 sec
126	16:26:41	insert into Books values('Demonlayer','RAKESH','FUNNY',2003,399.98)	1 row(s) affected	0.015 sec
127	16:26:41	insert into Books values('Jujutsukaisan','HARISH','SORROW',2004,499.98)	1 row(s) affected	0.000 sec
128	16:27:00	select * from Books LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
129	16:27:14	select * from Books WHERE title='OnePiece' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
130	16:27:30	update Books set price='999.98' where title='Naruto'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
131	16:27:51	delete from Books WHERE title='Jujutsukaisan'	1 row(s) affected	0.047 sec