SQL PROJECT

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BK02

*You have a task to create database to manage a online book store the database should store information about books ,authors ,customers , orders.

ONLINE BOOKS STORE

1.Create database to books store.

```
mysql> create database booksstore;
Query OK, 1 row affected (0.03 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| booksstore         |
| information_schema |
| mysql              |
| performance_schema |
| student            |
| sys                |
+--------------------+
6 rows in set (0.03 sec)
```

2.Create tables for books , authors , customers, orders specify the columns and data type for each table.

Books and authors tables:

```
o int,publication_year date,total_copies int,price int)' at line 1
mysql> create table books(books_id int, title varchar(30),author_name varchar(30),isbi_no varchar(20),publication_year date,total_copies int,price int);
Query OK, 0 rows affected (0.05 sec)

mysql> create table authors(author_id int primary key,author_name varchar(30));
Query OK, 0 rows affected (0.04 sec)

mysql> create table customers(customer_id int,customer_name varchar(30),email varchar(30),phone_no bigint,address varchar(50),order placed date date,city va
```

Customers table:

```
 at line 1
mysql> create table customers(customer_id int primary key,customer_name varchar(30),email varchar(30),phone_no bigint,address varchar(50),city varchar(20));
Query OK, 0 rows affected (0.02 sec)

mysql> create table orders(order_id int,order_item varchar(20),customer_id int foreign key(customer_id)references customers(customer_id),total_amount int);
```

Orders table:

```
mysql> create table orders(order_id int,order_item varchar(20),customer_id int,foreign key(customer_id) references customers(customer_id),total_amount int);

Query OK, 0 rows affected (0.03 sec)
```

3.Insert sample data into tables with sql schema.

Books , authors data inserting :

```
Records: 0  Duplicates: 0  Warnings: 0

mysql> insert into books values(1,'Gone with the Wind','Margaret Mitchell','ab11',1948,50,1100),(2,'The Grapes of Wrath','John Steinbeck','cd22',1950,45,150
0),(3,'Great Work of Time','John Crowley','ef33',1975,55,1430),(4,'The Green Bay Tree','Louis Bromfield','gh44','1943',30,1320),(5,'Behold the Man','Margare
t Mitchell','mn55',1955,35,1460);
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
'> ^C

mysql> insert into authors values(101,'Margaret Mitchell'),(102,'John Steinbeck'),(103,'John Crowley'),(104,'Louis Bromfield'),(105,'Margaret Mitchell');
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

Customers ,orders data inserting:

```
insert into customers values(11,'ammu','ammu@gmail.com',225588,'1-25 ma' at line 1
mysql> insert into customers values(11,'ammu','ammu@gmail.com',225588,'1-25 mainroad','kakinada'),(12,'divya','divya@gmail.com',235383,'2-85 ramalayam stree
t','jagampeta'),(13,'siri','siri@gmail.com',275787,'7-57 oppo to aptronix','peddapuram'),(14,'rajesh','rajesh@gmail.com',586848,'7-55 mainroad','yanam'),(15
,'vijay','viajy@gmail.com',245484,'8-75 steelplant raod','vizag');
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> create table orders(order_id int,order_item varchar(20),customer_id int,foreign key(customer_id) references customers(customer_id),total_amount int);

Query OK, 0 rows affected (0.03 sec)
```

4.Retrieve the all books from data base:

```
mysql> select title from books;
+---------------------+
| title               |
+---------------------+
| Gone with the Wind  |
| The Grapes of Wrath |
| Great Work of Time  |
| The Green Bay Tree  |
| Behold the Man      |
+---------------------+
5 rows in set (0.00 sec)
```

5.Retrieve the details of the books based on Isbi no from data base:

```
mysql> select isbi_no,title from books;
+---------+---------------------+
| isbi_no | title               |
+---------+---------------------+
| ab11    | Gone with the Wind  |
| cd22    | The Grapes of Wrath |
| ef33    | Great Work of Time  |
| gh44    | The Green Bay Tree  |
| mn55    | Behold the Man      |
+---------+---------------------+
5 rows in set (0.00 sec)
```

6.Retrieve the all books written by specific author from data base:

```
mysql> select * from books where  author_name='Margaret Mitchell';
+----------+-------------------+-------------------+---------+------------------+--------------+-------+
| books_id | title             | author_name       | isbi_no | publication_year | total_copies | price |
+----------+-------------------+-------------------+---------+------------------+--------------+-------+
|        1 | Gone with the Wind | Margaret Mitchell | ab11    |             1948 |           50 |  1100 |
|        5 | Behold the Man    | Margaret Mitchell | mn55    |             1955 |           35 |  1460 |
+----------+-------------------+-------------------+---------+------------------+--------------+-------+
2 rows in set (0.00 sec)
```

7.Update the price of the books with isbi no:

```
mysql> update books set price=price+300 where isbi_no='ef33';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from books;
+----------+--------------------+-------------------+---------+------------------+--------------+-------+
| books_id | title              | author_name       | isbi_no | publication_year | total_copies | price |
+----------+--------------------+-------------------+---------+------------------+--------------+-------+
|        1 | Gone with the Wind | Margaret Mitchell | ab11    |             1948 |           50 |  1100 |
|        2 | The Grapes of Wrath| John Steinbeck    | cd22    |             1950 |           45 |  1500 |
|        3 | Great Work of Time | John Crowley      | ef33    |             1975 |           55 |  1730 |
|        4 | The Green Bay Tree  | Louis Bromfield   | gh44    |             1943 |           30 |  1320 |
|        5 | Behold the Man     | Margaret Mitchell | mn55    |             1955 |           35 |  1460 |
+----------+--------------------+-------------------+---------+------------------+--------------+-------+
5 rows in set (0.00 sec)
```

8.Delete a customer from batabase:

```
mysql> delete from customers where customer_id=15;
Query OK, 1 row affected (0.00 sec)

mysql> select * from customers;
+-------------+---------------+------------------+----------+------------------------+------------+
| customer_id | customer_name | email            | phone_no | address                | city       |
+-------------+---------------+------------------+----------+------------------------+------------+
|          11 | ammu          | ammu@gmail.com   |   225588 | 1-25 mainroad          | kakinada   |
|          12 | divya         | divya@gmail.com  |   235383 | 2-85 ramalayam street  | jagampeta  |
|          13 | siri          | siri@gmail.com   |   275787 | 7-57 oppo to aptronix  | peddapuram |
|          14 | rajesh        | rajesh@gmail.com |   586848 | 7-55 mainroad          | yanam      |
+-------------+---------------+------------------+----------+------------------------+------------+
4 rows in set (0.00 sec)
```

9.Calculate the total no of orders placed by specific customer:

```
mysql> select count(customer_id) from orders where customer_id=13;
+--------------------+
| count(customer_id) |
+--------------------+
|                  2 |
+--------------------+
1 row in set (0.00 sec)

mysql>
```

10.Calculate the total revenew generated by all orders:

```
mysql> select sum(total_amount) from orders;
+-------------------+
| sum(total_amount) |
+-------------------+
|              6810 |
+-------------------+
1 row in set (0.01 sec)
```

Thank you