28/10/2020

DBMS Lab Assignment -2

- Abdullah Jamal - 2018UCP1712

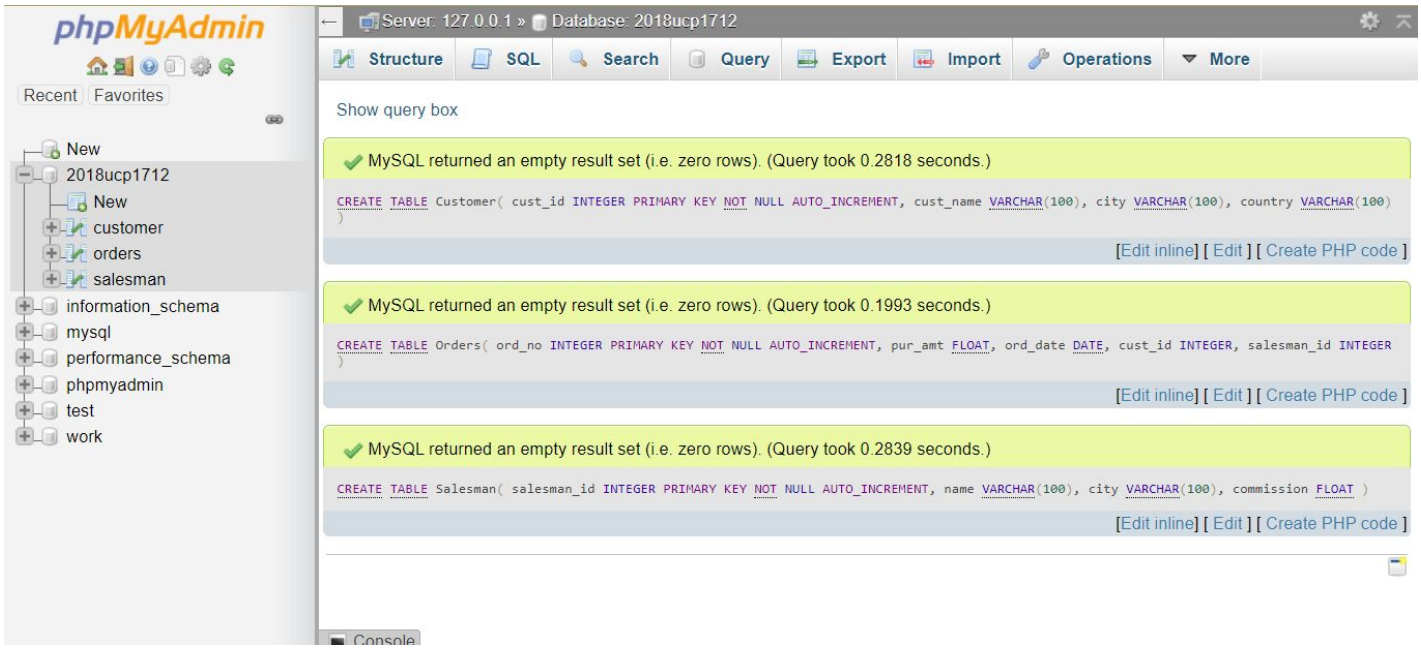
---

1. Create a database with your ID (example - 2018ucp2123). Then, create the following tables in that database.

- **Customer (cust_id, cust_name, city, country)**
- **Orders (ord_no, pur_amt, ord_date, cust_id, salesman_id)**
- **Salesman (salesman_id, name, city, commission)**

MySQL Query

```
CREATE TABLE Customer(
   cust_id INTEGER PRIMARY KEY NOT NULL AUTO_INCREMENT,
   cust_name VARCHAR(100),
   city VARCHAR(100),
   country VARCHAR(100)
   );

CREATE TABLE Orders(
   ord_no INTEGER PRIMARY KEY NOT NULL AUTO_INCREMENT,
   pur_amt FLOAT,
   ord_date DATE,
   cust_id INTEGER,
   salesman_id INTEGER
   );

CREATE TABLE Salesman(
   salesman_id INTEGER PRIMARY KEY NOT NULL AUTO_INCREMENT,
   name VARCHAR(100),
   city VARCHAR(100),
   commission FLOAT
   );
```

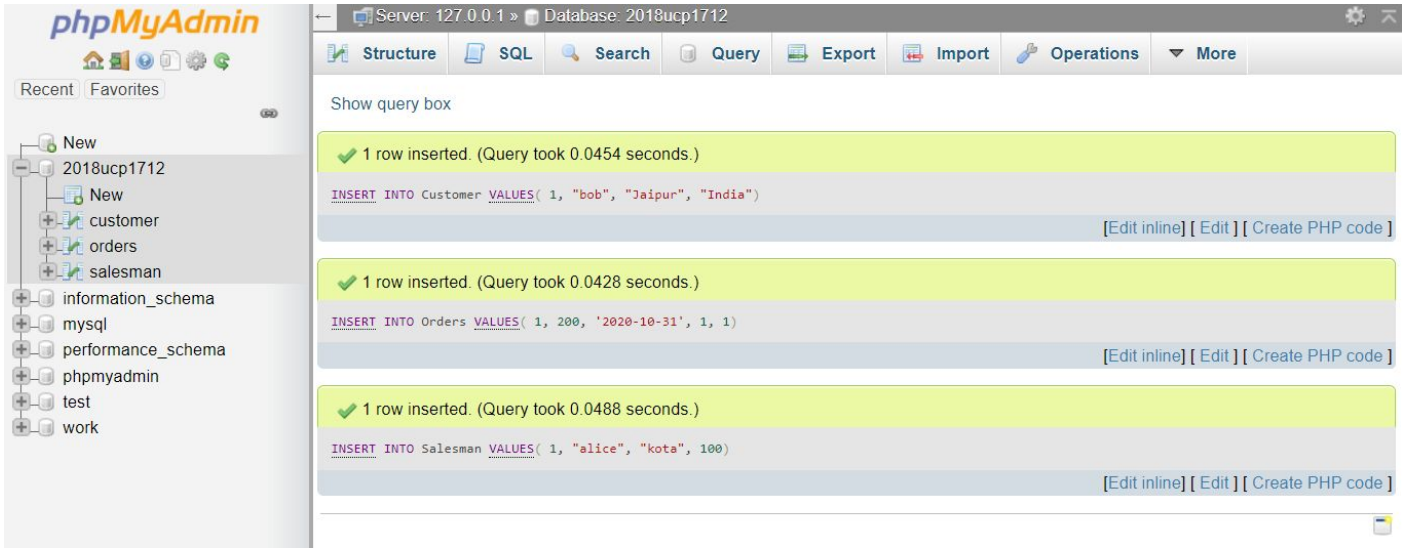


2. WAQ (separate for each table) to insert single row of data in the table.

INSERT INTO Customer VALUES(1, "bob", "Jaipur", "India");

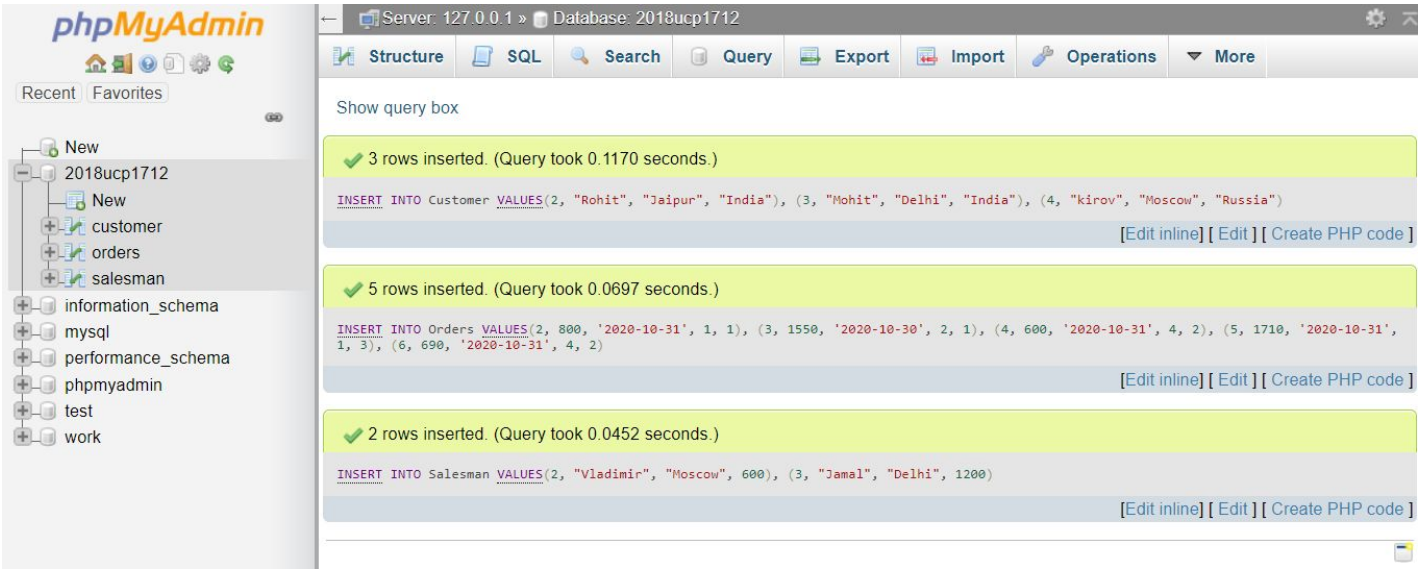
INSERT INTO Orders VALUES(1, 200, '2020-10-31', 1, 1);

INSERT INTO Salesman VALUES(1, "alice", "kota", 100);



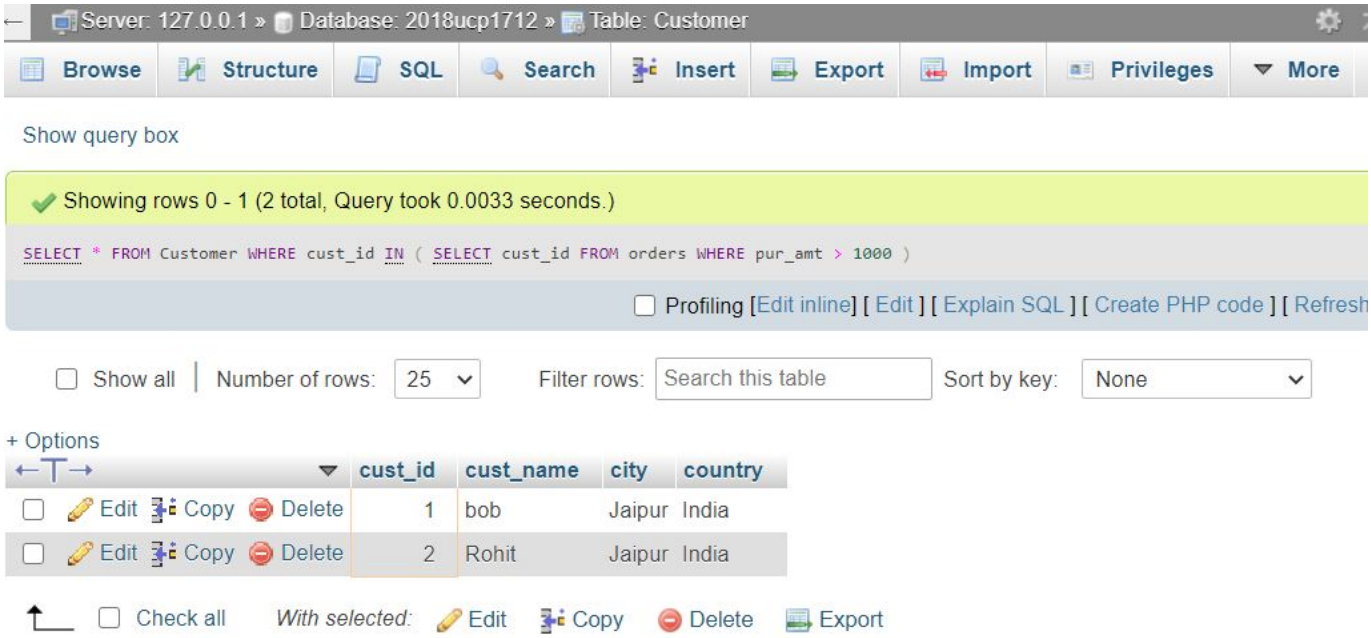
3. WAQ (separate for each table) to insert multiple row of data in the table.

```
INSERT INTO Customer VALUES(2, "Rohit", "Jaipur", "India"),
                           (3, "Mohit", "Delhi", "India"),
                          (4, "kirov", "Moscow", "Russia");

INSERT INTO Orders VALUES(2, 800, '2020-10-31', 1, 1),
                         (3, 1550, '2020-10-30', 2, 1),
                         (4, 600, '2020-10-31', 4, 2),
                        (5, 1710, '2020-10-31', 1, 3),
                         (6, 690, '2020-10-31', 4, 2);

INSERT INTO Salesman VALUES(2, "Vladimir", "Moscow", 600),
                           (3, "Jamal", "Delhi", 1200);
```



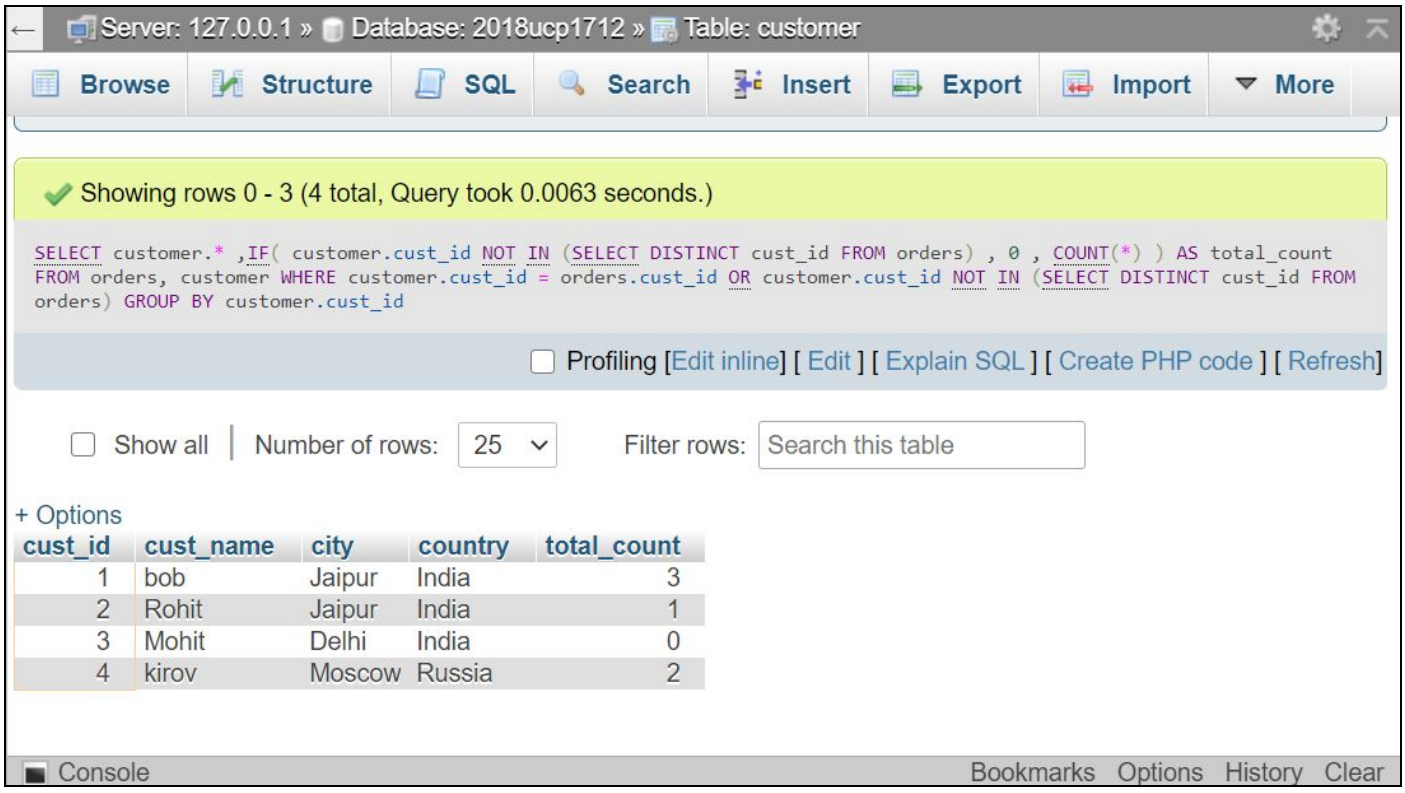
4. Write a query to list all customers with order amount greater than 1000 using subquery.

```
SELECT * FROM Customer WHERE cust_id IN ( SELECT cust_id FROM orders WHERE
pur_amt > 1000 );
```



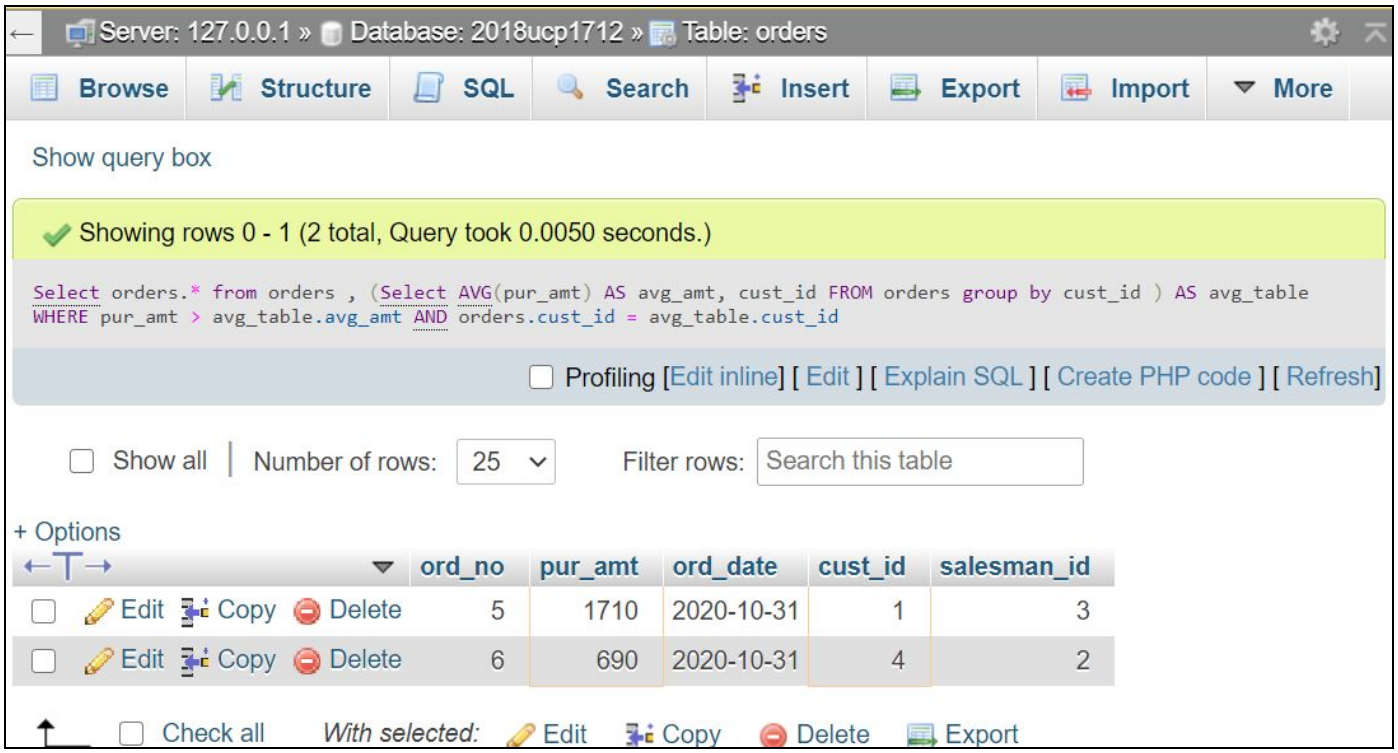
5. Write a query to list all customers with their total number of orders using subquery.

```
SELECT customer.* ,IF( customer.cust_id NOT IN
                    (SELECT DISTINCT cust_id FROM orders)
                    , 0 , COUNT(*)
                   ) AS total_count
FROM orders, customer
WHERE customer.cust_id = orders.cust_id
OR customer.cust_id NOT IN (SELECT DISTINCT cust_id FROM orders)
GROUP BY customer.cust_id;
```



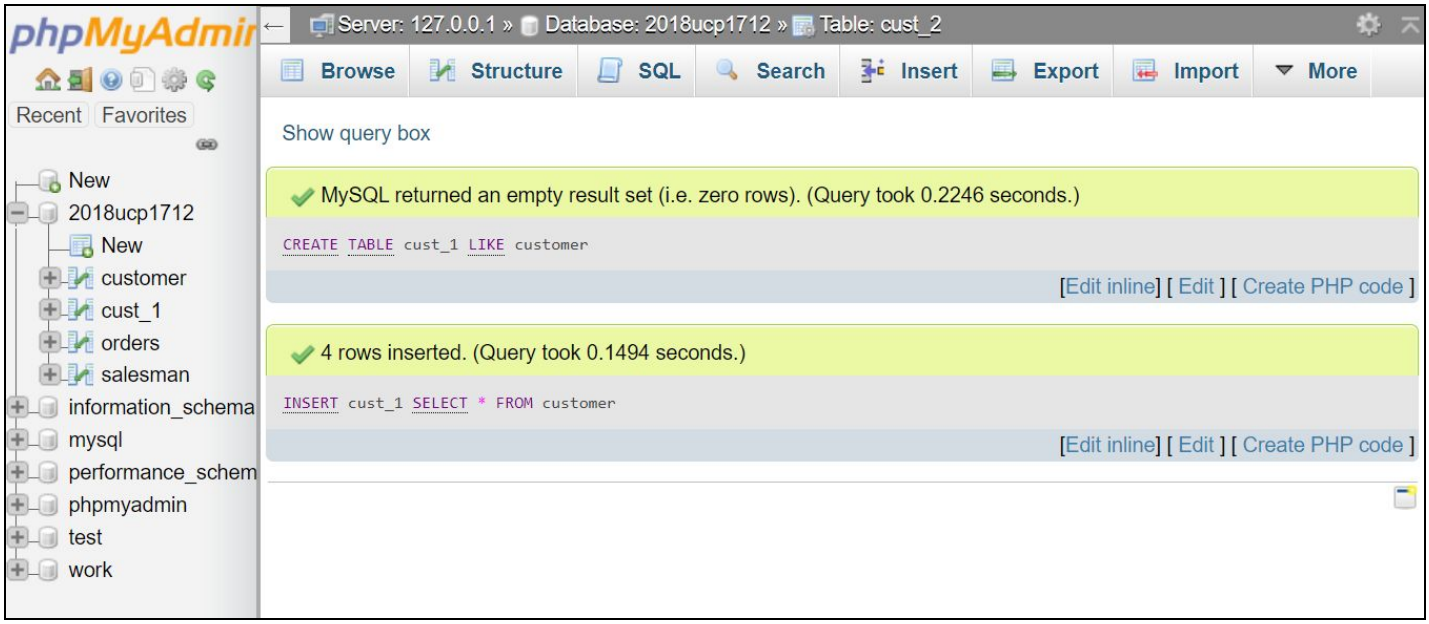
6. Write a query to find all the orders with order amounts which are above average amount for their customers using subquery.

*Select orders.**
from orders , (Select AVG(pur_amt) AS avg_amt, cust_id FROM orders group by cust_id) AS avg_table
WHERE pur_amt > avg_table.avg_amt
AND orders.cust_id = avg_table.cust_id;



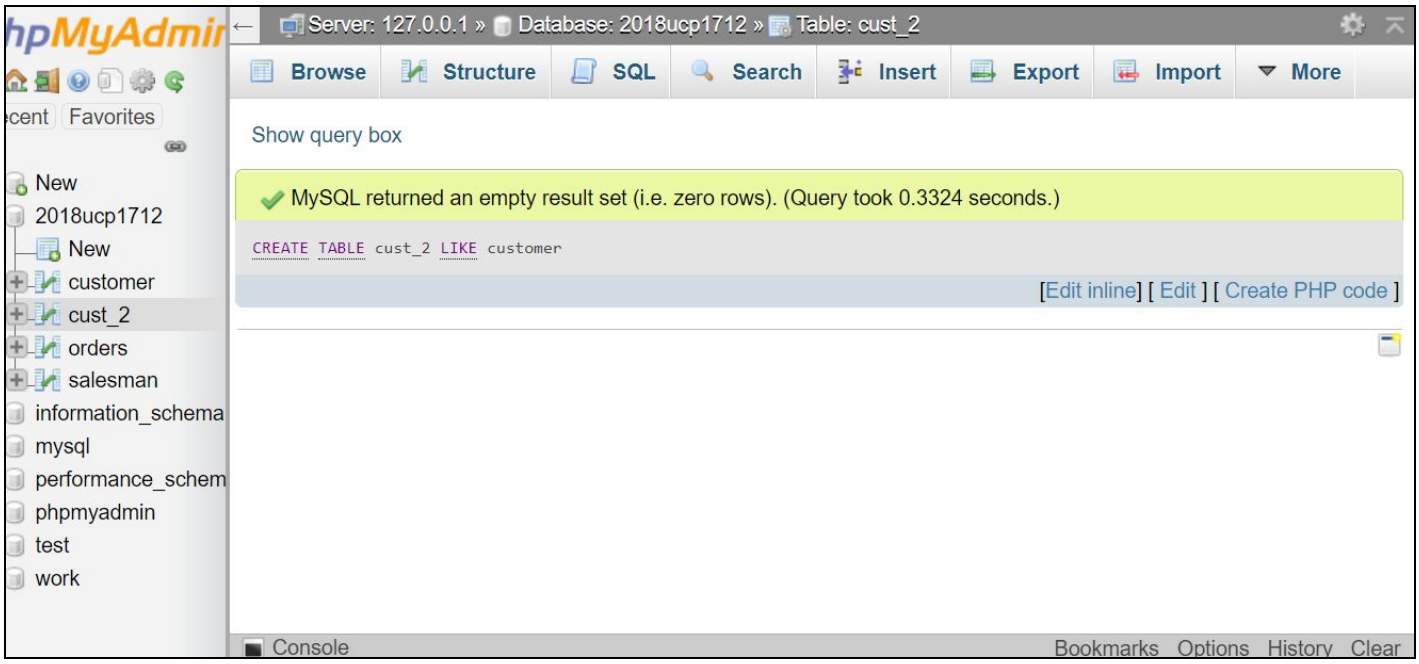
7. Given that you have a table named Customer in your database. Write a Create table statement to create another table Cust_1 with same structure and data as that of Customer.

CREATE TABLE cust_1 LIKE customer;
*INSERT cust_1 SELECT * FROM customer;*



8. Given that you have a table named Customer in your database. Write a Create table statement to create another table Cust_2 with same structure (but with no data) as that of Customer.

CREATE TABLE cust_2 LIKE customer;



==========
==========