

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.

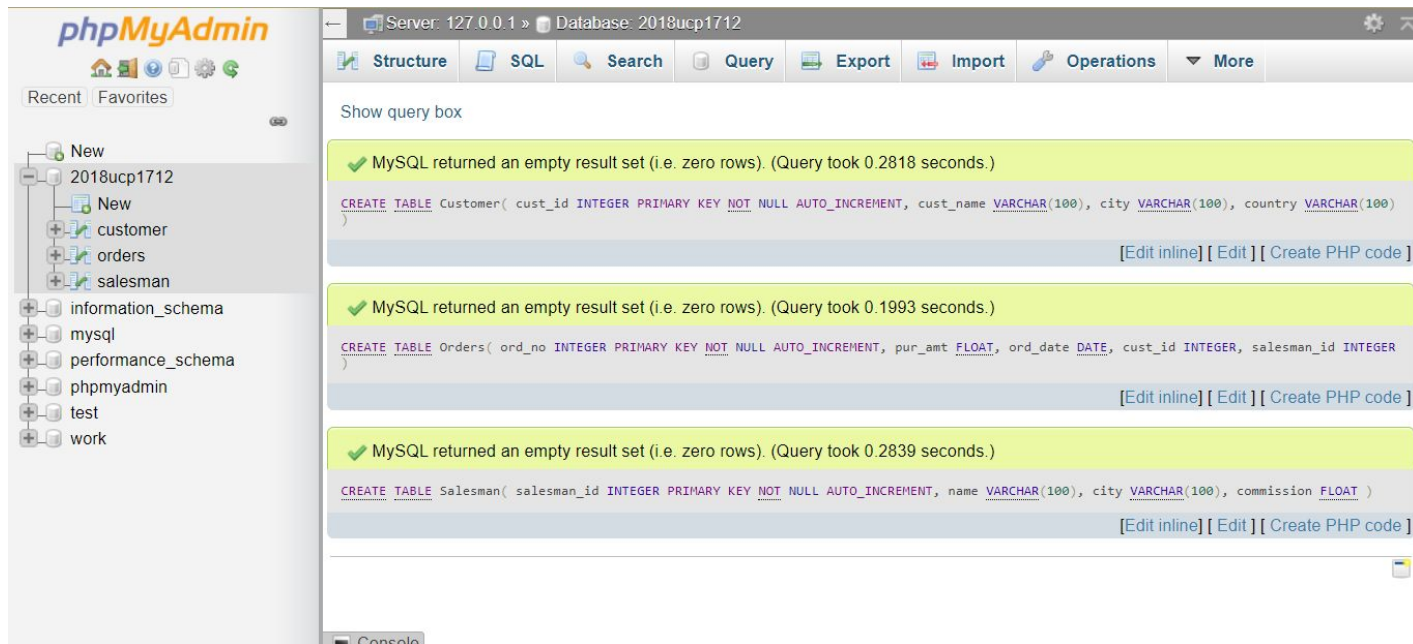
- **Customer (cust_id, cust_name, city, country)**
- **Orders (ord_no, pur_amt, ord_date, cust_id, salesman_id)**
- **Salesman (salesman_id, name, city, commission)**

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);

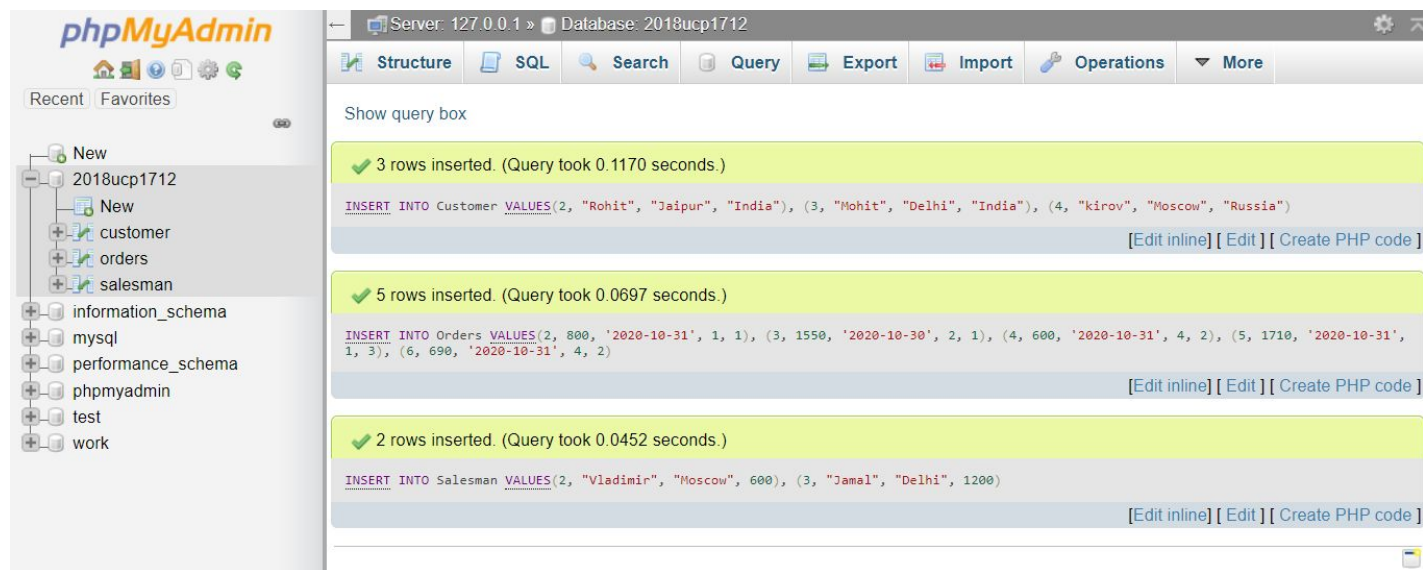


3. WAQ (separate for each table) to insert multiple row of data in the table.

```
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 );
```

Server: 127.0.0.1 » Database: 2018ucp1712 » Table: Customer

Browse Structure SQL Search Insert Export Import Privileges More

Show query box

✓ Showing rows 0 - 1 (2 total, Query took 0.0033 seconds.)

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

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	cust_id	cust_name	city	country
<input type="checkbox"/> Edit Copy Delete	1	bob	Jaipur	India
<input type="checkbox"/> Edit Copy Delete	2	Rohit	Jaipur	India

☐ Check all | With selected: Edit Copy Delete Export

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;
```

Server: 127.0.0.1 » Database: 2018ucp1712 » Table: customer

Browse Structure SQL Search Insert Export Import More

✓ Showing rows 0 - 3 (4 total, Query took 0.0063 seconds.)

```
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
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ Filter rows:

+ Options

cust_id	cust_name	city	country	total_count
1	bob	Jaipur	India	3
2	Rohit	Jaipur	India	1
3	Mohit	Delhi	India	0
4	kirov	Moscow	Russia	2

Console Bookmarks Options History Clear

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;

Server: 127.0.0.1 » Database: 2018ucp1712 » Table: orders

Browse Structure SQL Search Insert Export Import More

Show query box

✓ Showing rows 0 - 1 (2 total, Query took 0.0050 seconds.)

```
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
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ Filter rows: Search this table

+ Options

		ord_no	pur_amt	ord_date	cust_id	salesman_id
<input type="checkbox"/>	Edit Copy Delete	5	1710	2020-10-31	1	3
<input type="checkbox"/>	Edit Copy Delete	6	690	2020-10-31	4	2

↑ ☐ Check all With selected: Edit Copy Delete Export

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;
```

phpMyAdmin Server: 127.0.0.1 » Database: 2018ucp1712 » Table: cust_2

Browse Structure SQL Search Insert Export Import More

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2246 seconds.)

```
CREATE TABLE cust_1 LIKE customer
```

[Edit inline] [Edit] [Create PHP code]

✓ 4 rows inserted. (Query took 0.1494 seconds.)

```
INSERT cust_1 SELECT * FROM customer
```

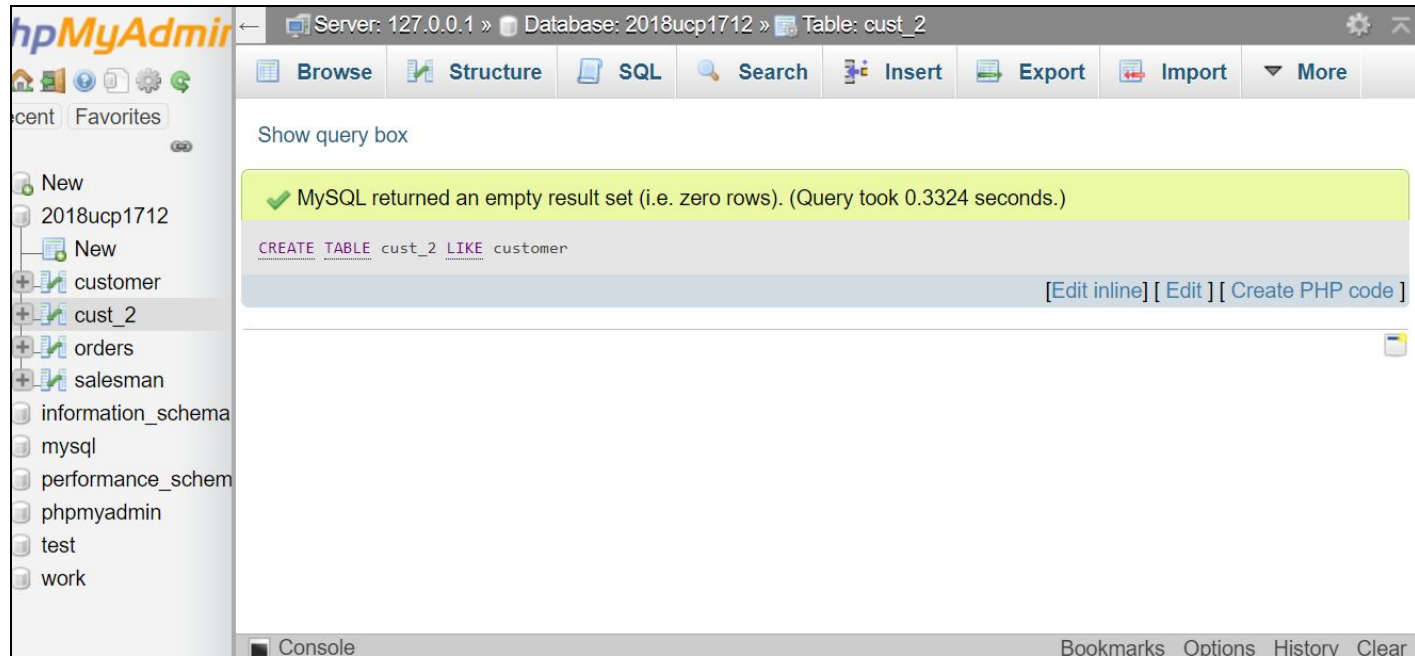
[Edit inline] [Edit] [Create PHP code]

Recent Favorites

- New
- 2018ucp1712
 - New
 - customer
 - cust_1
 - orders
 - salesman
- information_schema
- mysql
- performance_schem
- phpmyadmin
- test
- work

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;



=====

=====