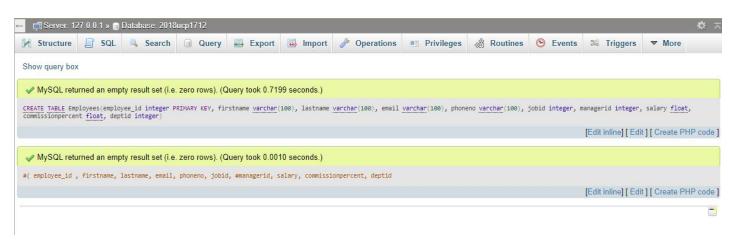
DBMS Lab Assignment 3

By Abdullah Jamal 2018UCP1712

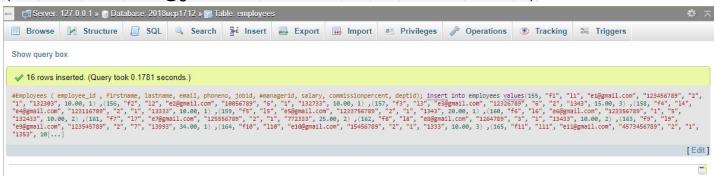
Schema (Q1 to Q5): Employees (employee_id, firstname, lastname, email, phoneno, jobid, managerid, salary, commissionpercent, deptid);



1. Insert data with employee id from 155 to 170.

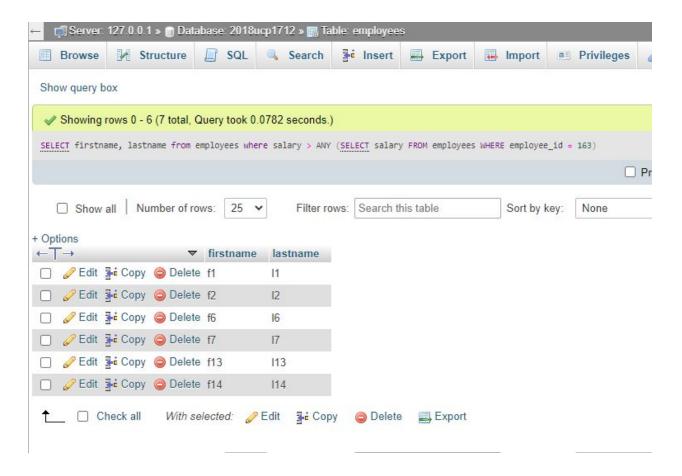
```
insert into employees values(155, "f1", "l1", "e1@gmail.com", "123456789", "2", "161", "132303", 10.00, 1)
,(156, "f2", "l2", "e2@gmail.com", "10056789", "6", "1", "132733", 10.00, 1)
,(157, "f3", "l3", "e3@gmail.com", "12326789", "6", "2", "1343", 15.00, 3)
,(158, "f4", "l4", "e4@gmail.com", "123116789", "2", "162", "13333", 10.00, 1)
,(159, "f5", "l5", "e5@gmail.com", "1233756789", "2", "1", "1343", 20.00, 1)
,(160, "f6", "l6", "e6@gmail.com", "123356789", "1", "5", "132433", 10.00, 2)
,(161, "f7", "l7", "e7@gmail.com", "125556789", "2", "1", "772333", 25.00, 2)
,(162, "f8", "l8", "e8@gmail.com", "1264789", "3", "1", "13433", 10.00, 2)
,(163, "f9", "l9", "e9@gmail.com", "123545789", "2", "7", "13993", 34.00, 1)
,(164, "f10", "l10", "e10@gmail.com", "15456789", "2", "1", "1353", 10.00, 3)
,(165, "f11", "l11", "e11@gmail.com", "4573456789", "2", "1", "1353", 10.00, 1)
,(167, "f13", "l13", "e13@gmail.com", "123456756", "2", "1", "16333", 10.00, 2)
,(168, "f14", "l14", "e14@gmail.com", "1234523449", "2", "15", "162", "133433", 10.00, 1)
```

,(169, "f15", "l15", "e15@gmail.com", "123456243", "2", "1", "13243", 10.00, 1) ,(170, "f16", "l16", "e16@gmail.com", "1216243", "4", "3", "13043", 16.00, 4);



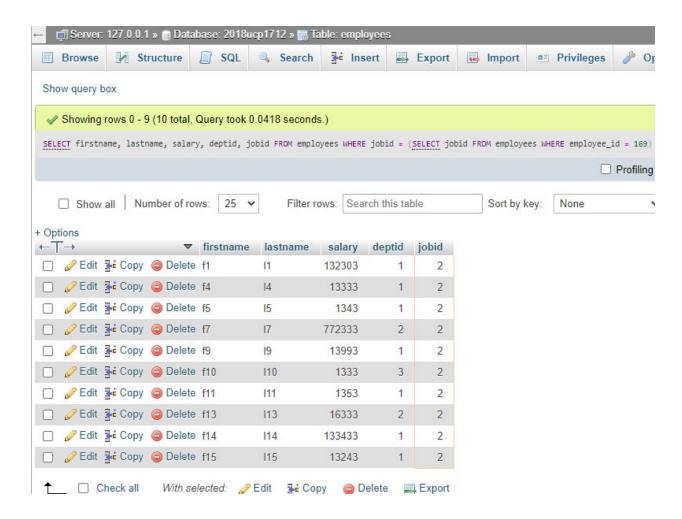
2. Write a query to display the name (first name and last name) for those employees who get more salary than the employee whose ID is 163.

SELECT firstname, lastname from employees where salary > ANY (SELECT salary FROM employees WHERE employee id = 163);



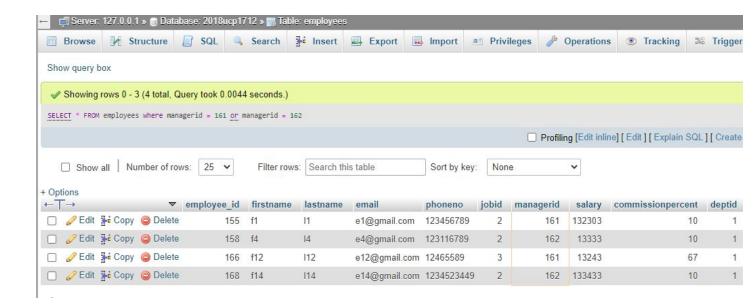
3. Write a query to display the name (first name and last name), salary, department id, job id for those employees who work in the same designation as the employee whose id is 169.

SELECT firstname, lastname, salary, deptid, jobid FROM employees WHERE jobid = (SELECT jobid FROM employees WHERE employee_id = 169);



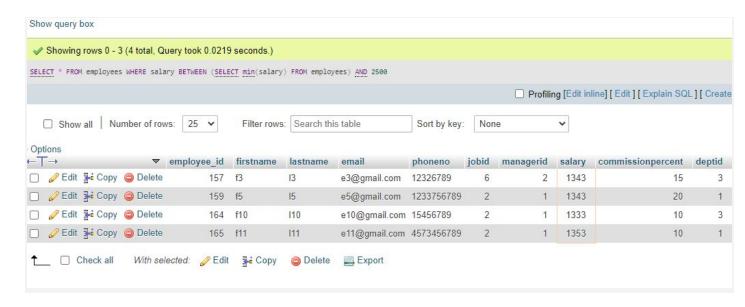
4. Write a query to display all the information of an employee whose reporting person id is 161 and 162 respectively.

SELECT * FROM employees where managerid = 161 or managerid = 162;



5. Write a query to display all the information of the employees whose salary is within the range of smallest salary and 2500.

SELECT * FROM employees WHERE salary BETWEEN (SELECT min(salary) FROM employees) AND 2500;



Schema (Q6 to Q10):

Salesman (id,name,city,commission); Customer(srno,name,city,grade,sales_id);

Orders(no,amount,date,cust_id,sales_id);

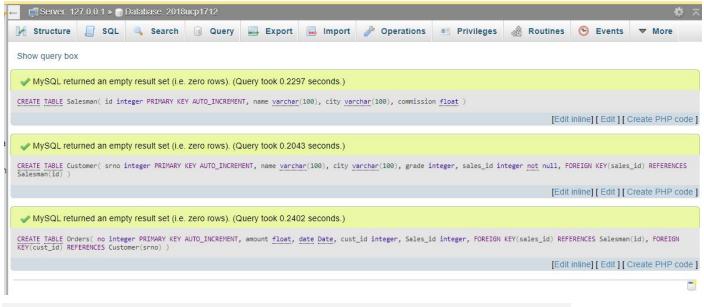
date Date.

);

cust_id integer, Sales id integer,

```
CREATE TABLE Salesman( id integer PRIMARY KEY
AUTO INCREMENT,
            name varchar(100),
            city varchar(100),
            commission float
            );
CREATE TABLE Customer( srno integer PRIMARY KEY
AUTO_INCREMENT,
            name varchar(100),
            city varchar(100),
            grade integer,
            sales id integer not null,
            FOREIGN KEY(sales id) REFERENCES Salesman(id)
           );
CREATE TABLE Orders( no integer PRIMARY KEY AUTO INCREMENT,
           amount float,
```

FOREIGN KEY(sales_id) REFERENCES Salesman(id), FOREIGN KEY(cust_id) REFERENCES Customer(srno)



insert into salesman VALUES(5001, "james hong", "new york", 0.15)

(5002, "Nail Knite", "delhi", 0.13)

,(5005, "Pit Alex", "London", 0.11) ,(5006, "Mc Lyon ", "delhi", 0.14) ,(5007, "Paul Adam", "Rome", 0.13) ,(5003, "Lauson Hen", "San Jose", 0.12);

INSERT INTO customer VALUES(3002, "Nick Rimando", "New York", 100, 5001)

,(3007, "Brad Davis", "New York",

200, 5001)

```
,(3005, "Graham Zusi", "California", 200, 5002)
,(3008, "Julian Green", "London", 300, 5002)
,(3004, "Fabian Johnson", "Paris", 300, 5006)
,(3009, "Geoff Cameron", "Berlin", 100, 5003)
,(3003, "Jozy Altidor", "Moscow", 200, 5007)
,(3001, "Brad Guzan", "London", 200, 5005);
```

INSERT INTO orders VALUES(70001, 150.5, '2020-10-05', 3005, 5001) ,(70009, 270.65, '2020-10-31', 3001, 5002)

```
,(70002, 65.26, '2020-10-05', 3003, 5006)
,(70004, 110.5, '2020-08-17', 3005, 5006)
,(70007, 948.5, '2020-07-27', 3003, 5002)
,(70005, 2400.6, '2020-09-10', 3003, 5007)
,(70008, 5760, '2020-10-08', 3005, 5003)
,(70010, 1983.43, '2020-10-10', 3004, 5003)
,(70012, 2480.4, '2020-06-30', 3008, 5003)
,(70011, 250.45, '2020-08-17', 3008, 5002)
,(70013, 75.29, '2020-04-25', 3008, 5007);
```

```
## 6 rows inserted. (Query took 0.0611 seconds.)

insert into salesman VALUES( 5001, "james hong", "new york", 0.15) ,(5002, "Nail Knite", "delhi", 0.13) ,(5005, "Pit Alex", "London", 0.11) ,(5006, "Hc Lyon", "delhi", 0.14) ,(5007, "Paul Adam", "Rome", 0.13) ,(5003, "Lauson Hen", "San Jose", 0.12)

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

## 8 rows inserted. (Query took 0.0678 seconds.)

INSERT INTO customer VALUES(3002, "Nick Rimando", "New York", 100, 5001) ,(3007, "Brad Davis", "New York", 200, 5001) ,(3005, "Graham Zusi", "California", 200, 5002) ,(3008, "Julian Green", "London", 300, 5002) ,(3004, "Fabian Johnson", "Paris", 300, 5006) ,(3009, "Geoff Cameron", "Berlin", 100, 5003) ,(3003, "Jozy Altidor", "Moscow", 200, 5007) ,(3001, "Brad Guzan", "London", 200, 5005)

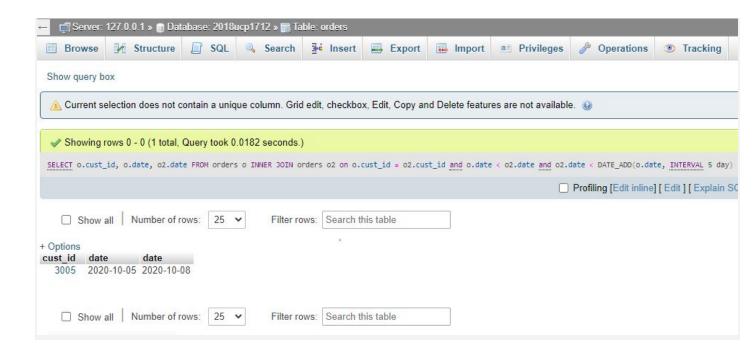
[Edit inline] [Edit] [ Create PHP code]

**Insert Into orders VALUES(70001, 150.5, '2020-10-05', 3005, 5002) ,(70009, 270.65, '2020-09-10', 3005, 5002) ,(70002, 65.26, '2020-10-05', 3005, 5002) ,(70008, 110.5, '2020-08-17', 3005, 5002) ,(70010, 1983.43, '2020-10-10', 3005, 5002) ,(70011, 250.45, '2020-08-17', 3005, 5002) ,(70010, 1983.43, '2020-10-10', 3005, 5002) ,(70013, 75.29, '2020-04-25', 3005, 5002) (70013, 75.29, '2020-04-25', 3005, 5002) 

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

6. List the customers with multiple orders in a 5 day period.

SELECT o.cust_id, o.date, o2.date
FROM orders o
INNER JOIN orders o2
on o.cust_id = o2.cust_id
and o.date < o2.date
and o2.date < DATE_ADD(o.date, INTERVAL 5 day);



7. List the first order from each city.

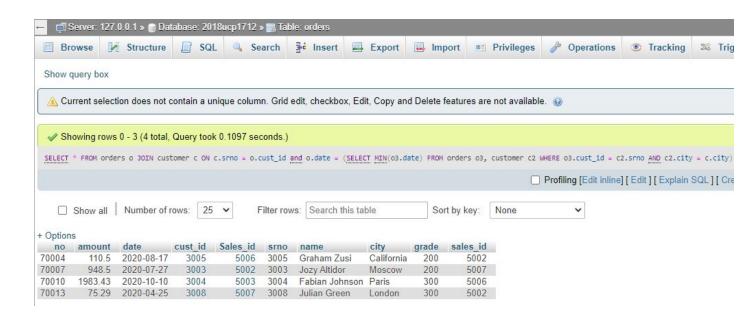
SELECT * FROM orders o

JOIN customer c

ON c.srno = o.cust_id

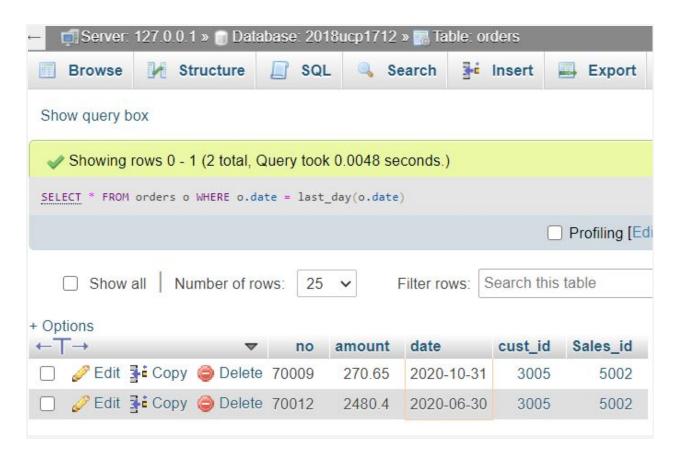
and o.date = (SELECT MIN(o3.date) FROM orders o3, customer c2

WHERE o3.cust_id = c2.srno AND c2.city = c.city);



8. Show all orders made on the last day of the month.

SELECT * FROM orders o WHERE o.date = last_day(o.date);



9. Find the customer with the highest number of orders in each city.

```
SELECT t1.cy, t2.cust_id, t1.count as num_of_Orders
FROM

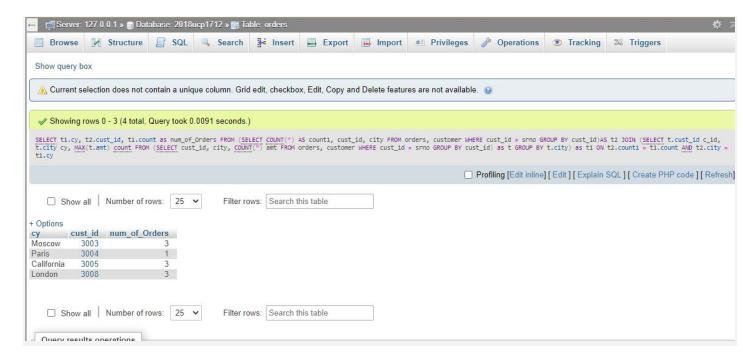
(SELECT COUNT(*) AS count1, cust_id, city
FROM orders, customer WHERE cust_id = srno GROUP BY cust_id)AS t2

JOIN

(SELECT t.cust_id c_id, t.city cy, MAX(t.amt) count
FROM

(SELECT cust_id, city, COUNT(*) amt FROM orders, customer WHERE
cust_id = srno GROUP BY
cust_id) as t
```

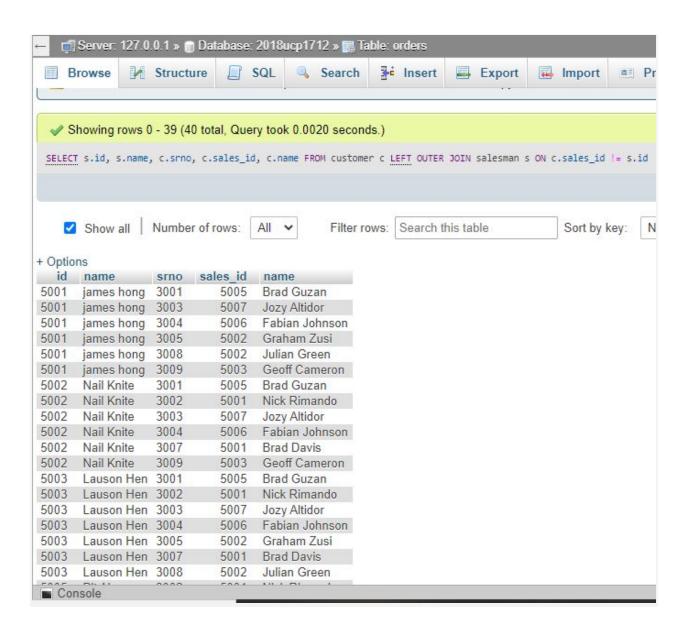
GROUP BY t.city) as t1 ON t2.count1 = t1.count AND t2.city = t1.cy;



10. For each salesman, list the customers who have not ordered from him.

SELECT s.id, s.name, c.srno, c.sales_id, c.name FROM customer c LEFT OUTER JOIN salesman s ON c.sales_id != s.id;

ScreenShot



continued..

---->>>

■ B	rowse 🥻	Structure		SQL	Search	3-6	Insert
id	name	srno sa	ales_id	nan	ne		
5003	Lauson Hen	3008	5002	Julia	n Green		
5005	Pit Alex	3002	5001	Nick	Rimando		
5005	Pit Alex	3003	5007	Jozy	Altidor		
5005	Pit Alex	3004	5006	Fabi	an Johnson		
5005	Pit Alex	3005	5002	Gral	nam Zusi		
5005	Pit Alex	3007	5001	Brac	d Davis		
5005	Pit Alex	3008	5002	Julian Green			
5005	Pit Alex	3009	5003	Geoff Cameron			
5006	Mc Lyon	3001	5005	Brad Guzan			
5006	Mc Lyon	3002	5001	Nick Rimando			
5006	Mc Lyon	3003	5007	Jozy Altidor			
5006	Mc Lyon	3005	5002	Gral	nam Zusi		
5006	Mc Lyon	3007	5001	Brac	d Davis		
5006	Mc Lyon	3008	5002	Julia	in Green		
5006		3009	5003	Geo	ff Cameron		
5007	Paul Adam	3001	5005	Brac	d Guzan		
5007	Paul Adam	3002	5001	Nick	Rimando		
5007	Paul Adam	3004	5006	Fabi	an Johnson		
5007	Paul Adam	3005	5002	Gral	nam Zusi		
5007	Paul Adam	3007	5001	Brac	d Davis		
5007	Paul Adam	3008	5002	Julia	in Green		
5007	Paul Adam	3009	5003	Geo	ff Cameron		
