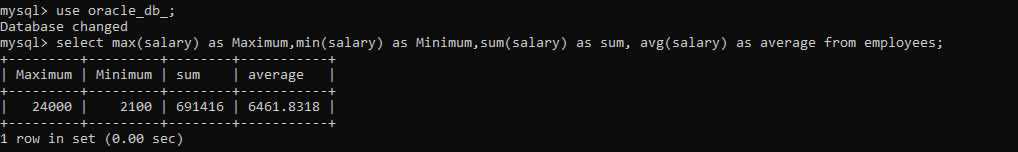
**MUHAMMAD-HAMMAD**

**BCS-213064**

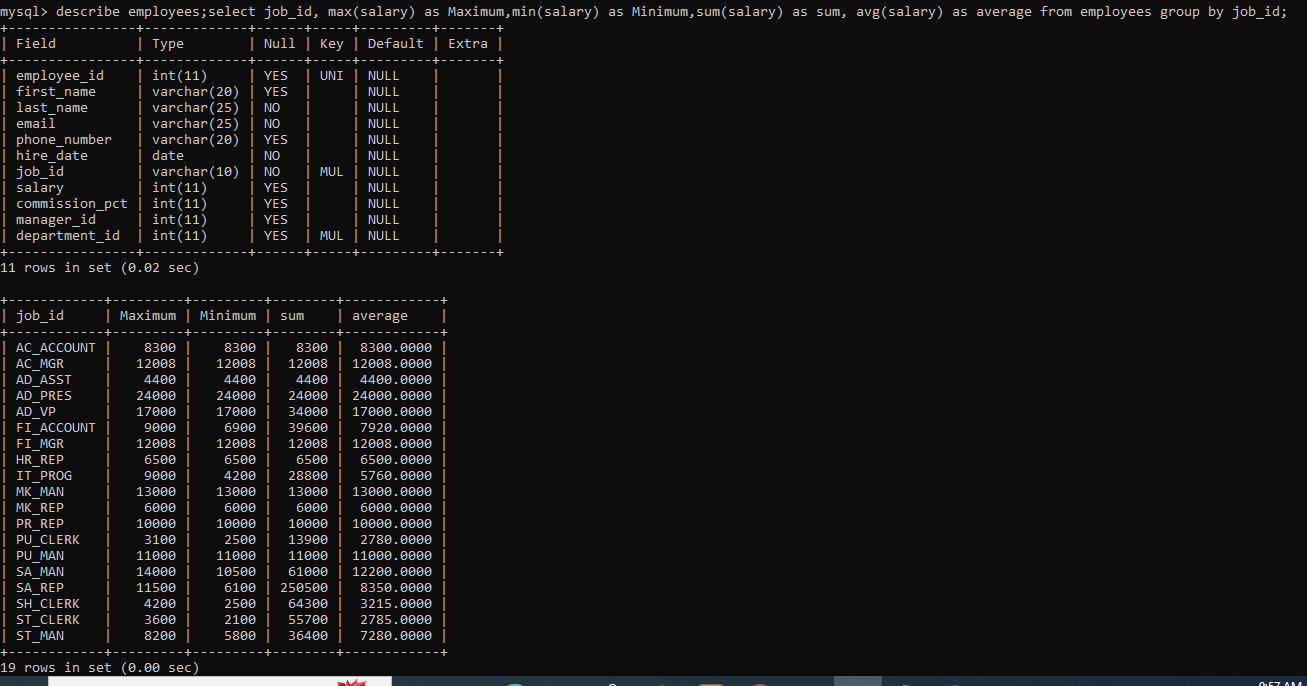
**Lab Task**

**-:QUERIES:-**

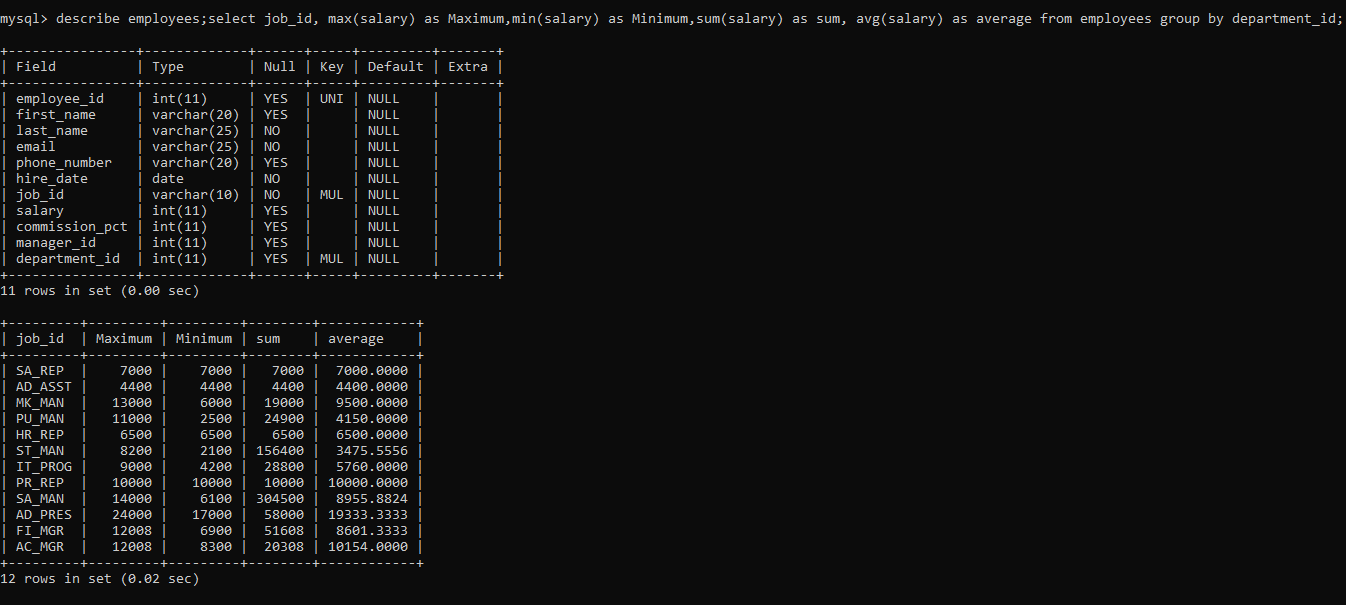
1: select max(salary) as Maximum,min(salary) as Minimum,sum(salary) as sum, avg(salary) as average from employees;



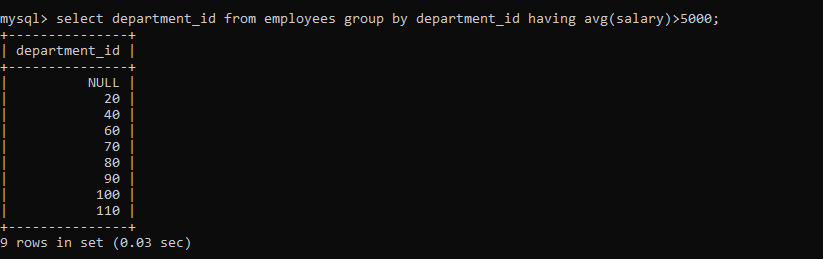
2: select job\_id, max(salary) as Maximum,min(salary) as Minimum,sum(salary) as sum, avg(salary) as average from employees group by job\_id;



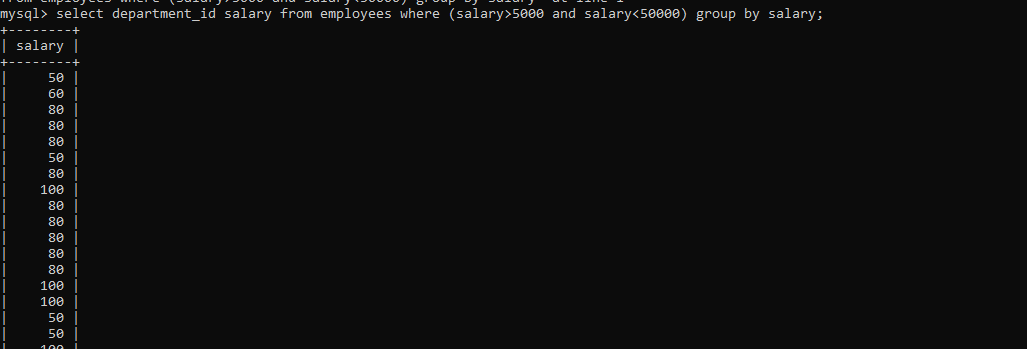
3:select job\_id, max(salary) as Maximum,min(salary) as Minimum,sum(salary) as sum, avg(salary) as average from employees group by department\_id;



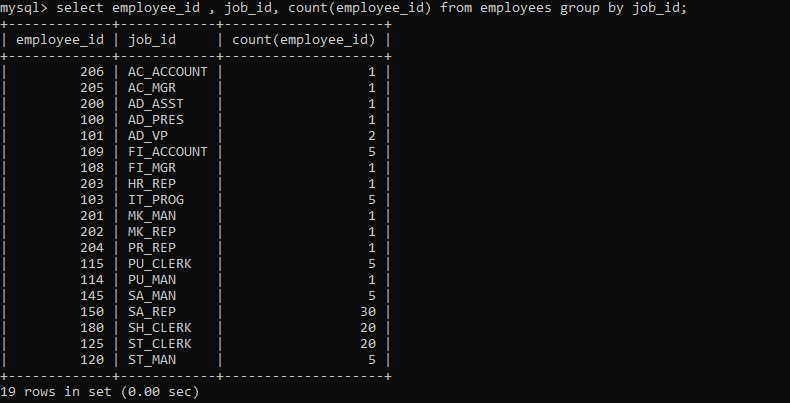
4: select department\_id from employees group by department\_id having avg(salary)>5000;



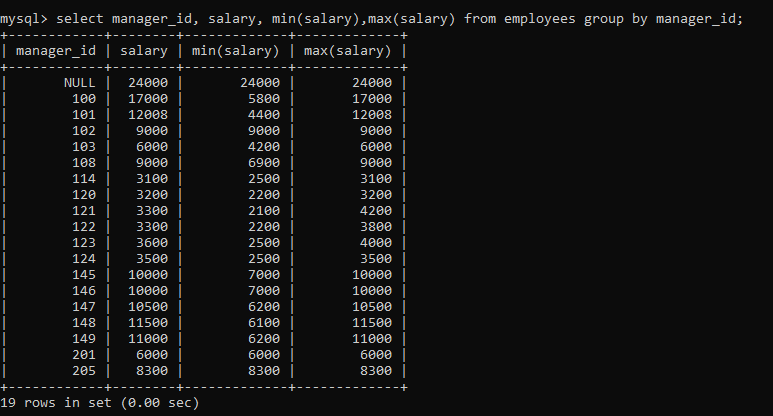
5: select department\_id salary from employees where (salary>5000 and salary<50000) group by salary;



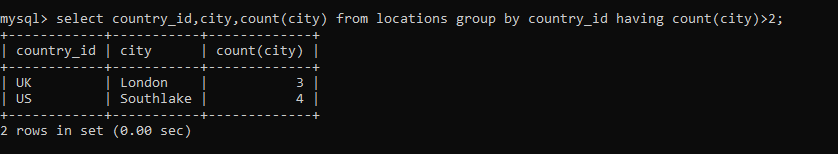
6: select employee\_id , job\_id, count(employee\_id) from employees group by job\_id;



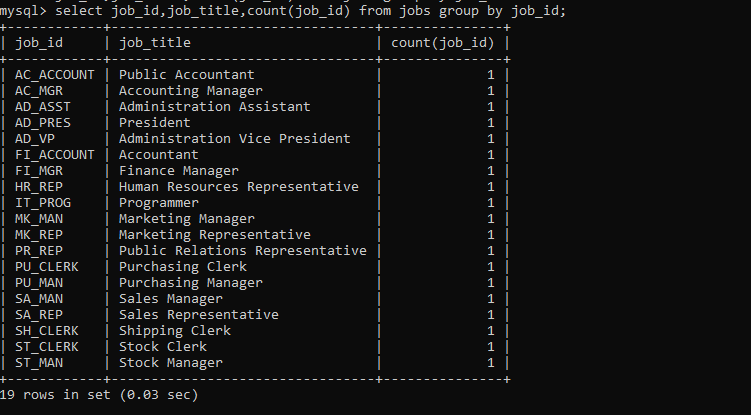
7: select manager\_id, salary, min(salary),max(salary) from employees group by manager\_id;



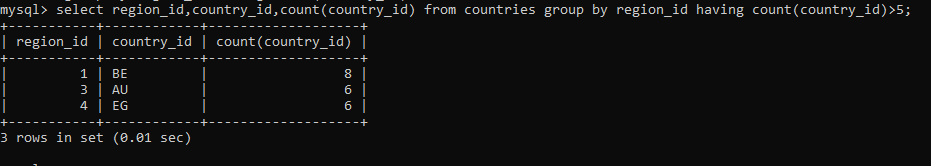
8: select country\_id,city,count(city) from locations group by country\_id having count(city)>2;



9: select job\_id,job\_title,count(job\_id) from jobs group by job\_id;



10: select region\_id,country\_id,count(country\_id) from countries group by region\_id having count(country\_id)>5;



UN-SEEN TASK

**US1:**

Show first name of all of the employees who were hired in the department of 'IT' and 'SALES' in every year. Also show count of hiring for each year.

**QUERY1:**

SELECT FIRST\_NAME, COUNT(\*) FROM EMPLOYEES WHERE DEPARTMENT\_ID IN ('IT', 'SALES') GROUP BY EXTRACT(YEAR FROM HIRE\_DATE), FIRST\_NAME;

**US2:**

Show names of all of the cities in every country and also show the count of the cities in every country.

**QUERY 2:**

SELECT c.name AS Country, ct.name AS City, COUNT(\*) AS City\_Count FROM country c INNER JOIN city ct ON c.code = ct.countrycode GROUP BY c.name, ct.name ORDER BY c.name;