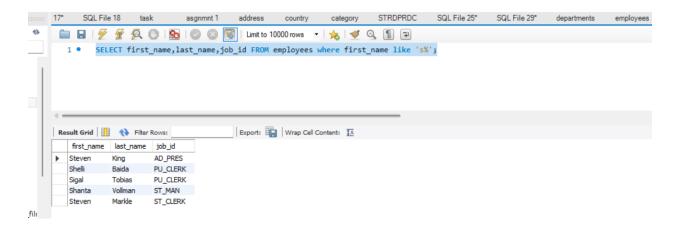
Assignment 2

SQL Exercises

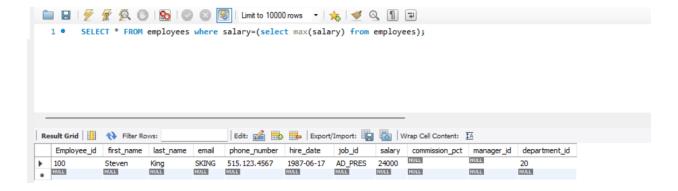
1. Select employees first name, last name, job_id and salary whose first name starts with alphabet S

SELECT first_name,last_name,job_id FROM employees where first_name like 's%';



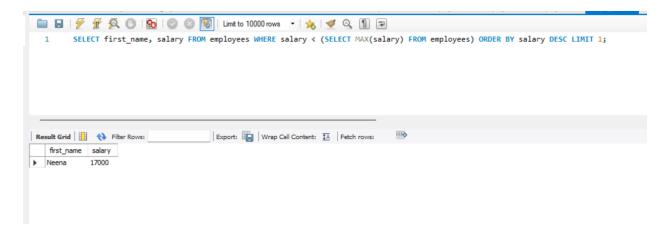
2. Write a query to select employee with the highest salary (using inner query)

SELECT * FROM employees where salary=(select max(salary) from employees);



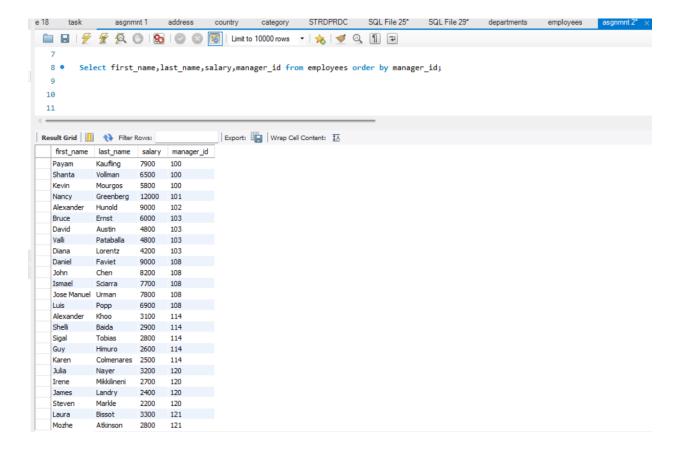
3. Select employee with the second highest salary

select first_name, salary from employees where salary < (select max(salary) from employees) order by salary desc limit 1;



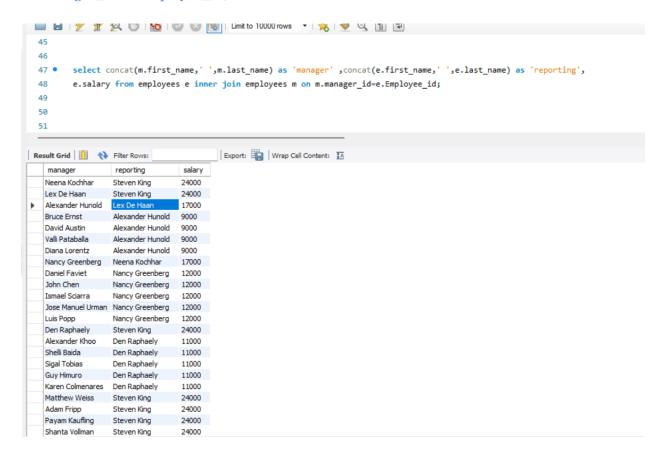
4. Write a query to select employees and their corresponding managers and their salaries

Select first_name, last_name, salary, manager_id from employees order by manager_id;



5. Write a query to select employees and their corresponding managers and their salaries (SELF Join)

select concat(m.first_name,' ',m.last_name) as 'manager' ,concat(e.first_name,' ',e.last_name) as 'reporting', e.salary from employees e inner join employees m on m.manager_id=e.Employee_id;

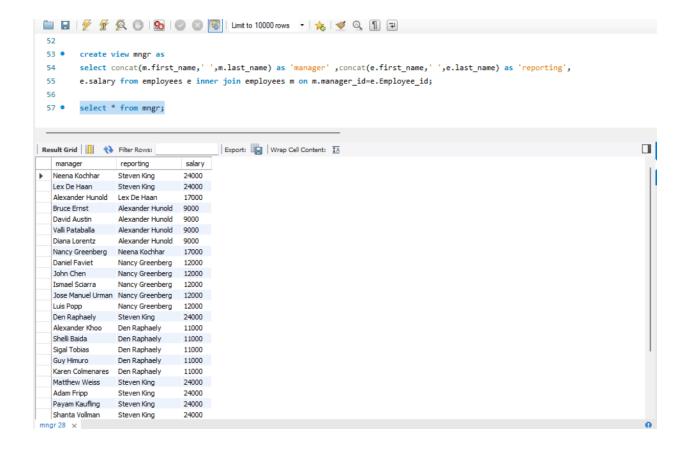


6. Create a view for the above query

```
create view mngr as
```

select concat(m.first_name,' ',m.last_name) as 'manager' ,concat(e.first_name,' ',e.last_name) as 'reporting', e.salary from employees e inner join employees m on m.manager_id=e.Employee_id;

select * from mngr;



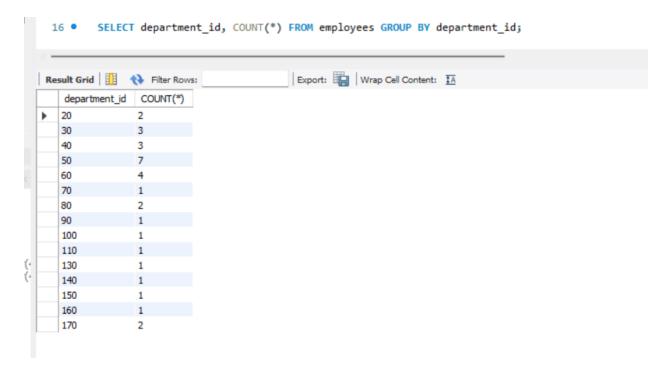
7. Write a query to show count of employees under each manager in descending order (from view)

SELECT m_id,COUNT(m_id) as cnt FROM mngr1 GROUP BY m_id ORDER BY count(m_id) DESC;

```
52
      create view mngr1 as
       select m.manager_id as m_id,concat(m.first_name,' ',m.last_name) as 'Manager' ,e.Employee_id as e_id,concat(
54
       e.salary from employees e inner join employees m on m.manager_id=e.Employee_id;
56
       select * from mngr1;
       SELECT m_id,COUNT(m_id) as cnt FROM mngr1 GROUP BY m_id ORDER BY count(m_id) DESC;
                                   Export: Wrap Cell Content: IA
m_id cnt
  100
  108 5
  114 5
  120
  121 2
  102
  101 1
```

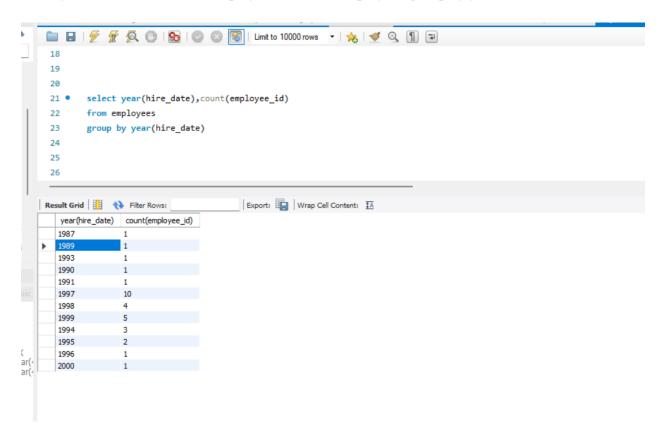
8. Find the count of employees in each department

SELECT department_id, COUNT(*) FROM employees GROUP BY department_id;



9. Get the count of employees hired year wise

select year(hire_date),count(employee_id) from employees group by year(hire_date)



10 . create a stored procedure to get the "Get the count of employees hired in the input year" (IN year, OUT count)

```
delimiter $$

CREATE PROCEDURE pr_empcount(IN yr VARCHAR(255), OUT cnt INT)

BEGIN

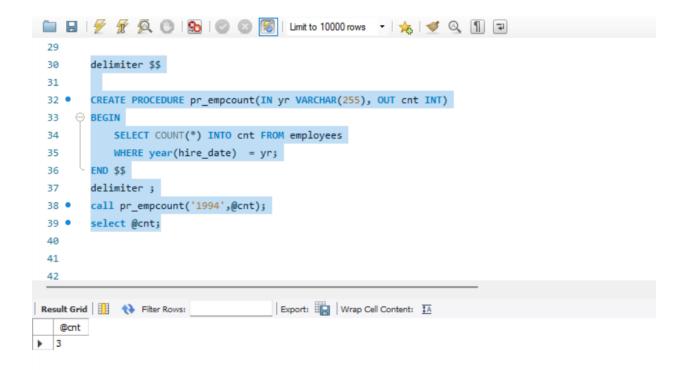
SELECT COUNT(*) INTO cnt FROM employees WHERE year(hire_date) = yr;

END $$

delimiter;

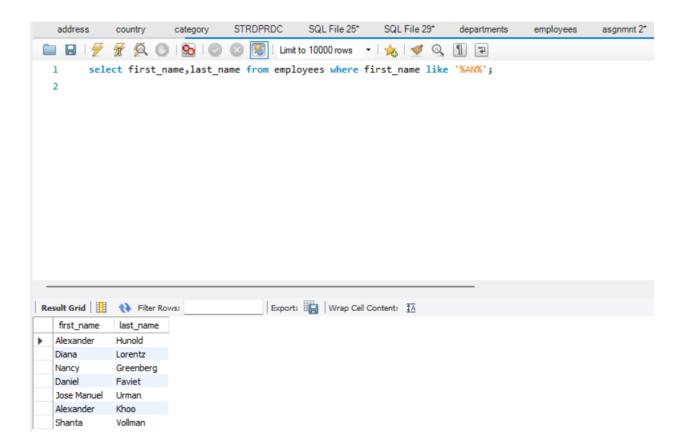
call pr_empcount('1994',@cnt);

select @cnt
```



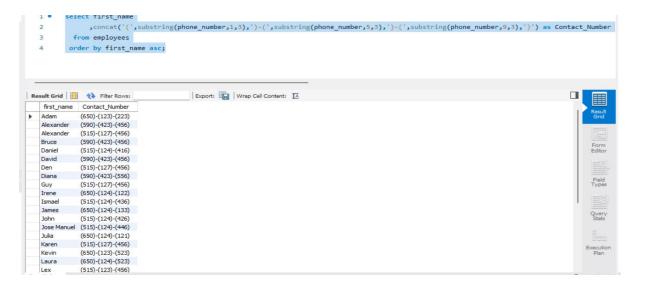
11. Select the employees whose first_name contains "an"

 $select\ first_name, last_name\ from\ employees\ where\ first_name\ like\ '\%AN\%';$



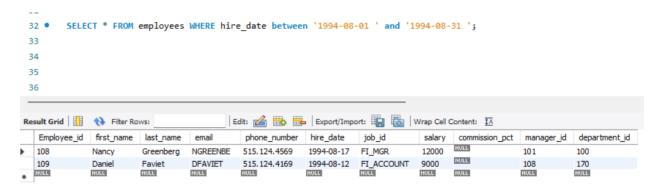
12. Select employee first name and the corresponding phone number in the format ()-()-()

select first_name,concat('(',substring(phone_number,1,3),')-(',substring(phone_number,5,3),')-(',substring(phone_number,9,3),')') as Contact_Number from employees order by first_name asc;



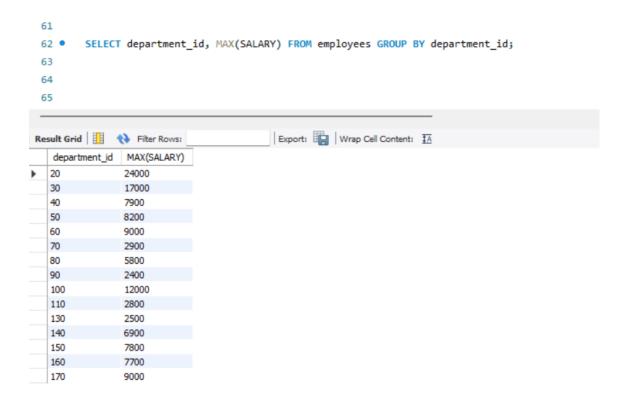
13. Find the employees who joined in August, 1994.

SELECT * FROM employees WHERE hire_date between '1994-08-01' and '1994-08-31';



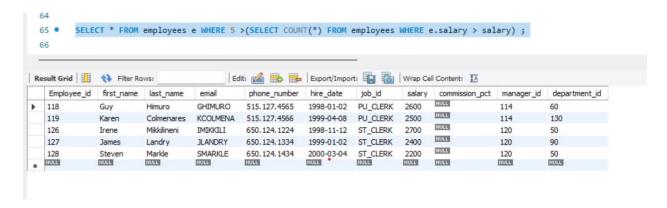
14. Find the maximum salary from each department.

SELECT department_id, MAX(SALARY) FROM employees GROUP BY department_id;



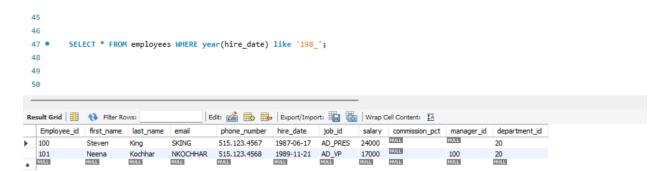
15. Write a SQL query to display the 5 least earning employees

SELECT * FROM employees e WHERE 5 > (SELECT COUNT(*) FROM employees WHERE e.salary > salary);



16. Find the employees hired in the 80s

SELECT * FROM employees WHERE year(hire_date) like '198_';



17. Find the employees who joined the company after 15th of the month

SELECT first_name, hire_date FROM employees WHERE day(hire_date)>15;

