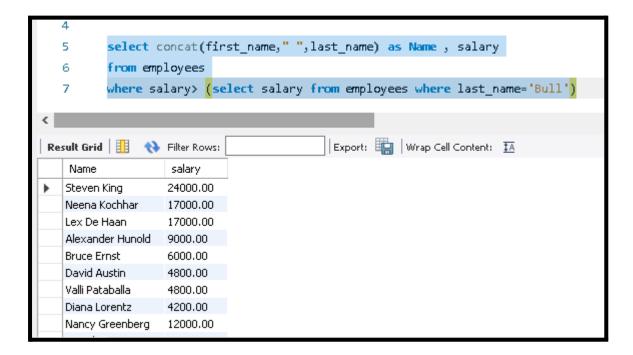
Subquery Question

1. Write a query to find the name (first_name, last_name) and the salary of the employees who have a higher salary than the employee whose last_name='Bull'.

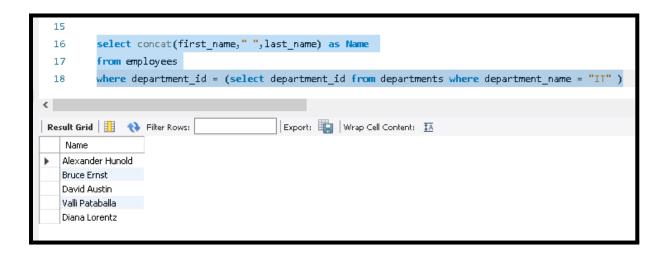
```
select concat(first_name," ",last_name) as Name, salary from employees where salary> (select salary from employees where last_name='Bull')
```



2. Write a query to find the name (first_name, last_name) of all employees who works in the IT department.

```
select concat(first_name," ",last_name) as Name from employees
```

where department_id = (select department_id from departments where department_name = "IT")



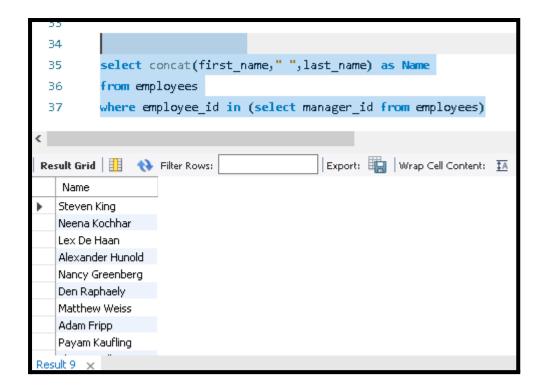
3. Write a query to find the name (first_name, last_name) of the employees who have a manager and worked in a USA based department.

SELECT first_name, last_name FROM employees
WHERE manager_id in (select employee_id
FROM employees WHERE department_id
IN (SELECT department_id FROM departments WHERE location_id
IN (select location_id from locations where country_id='US')));



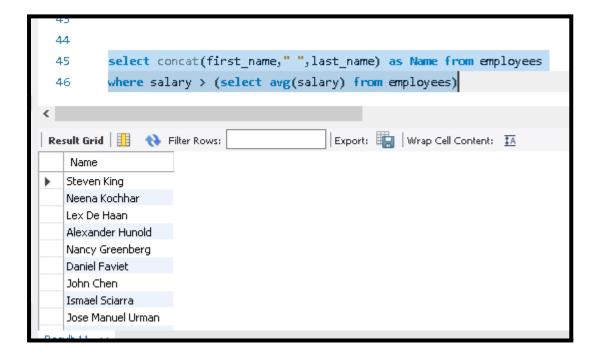
4. Write a query to find the name (first_name, last_name) of the employees who are managers.

```
select concat(first_name," ",last_name) as Name from employees where employee_id in (select manager_id from employees)
```



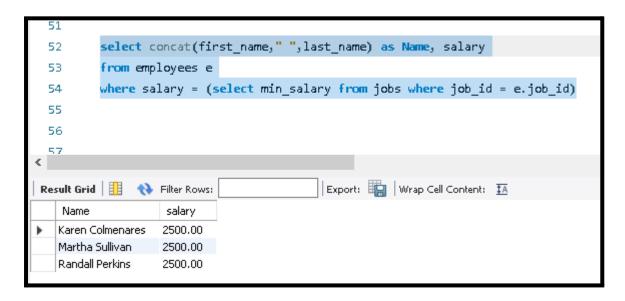
5. Write a query to find the name (first_name, last_name), and salary of the employees whose salary is greater than the average salary.

select concat(first_name," ",last_name) as Name from employees where salary > (select avg(salary) from employees)

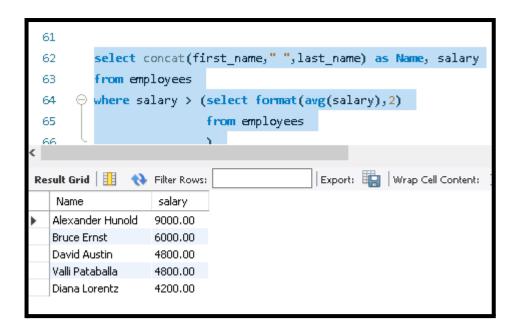


6. Write a query to find the name (first_name, last_name), and salary of the employees whose salary is equal to the minimum salary for their job grade.

```
select concat(first_name," ",last_name) as Name, salary from employees e where salary = (select min_salary from jobs where job_id = e.job_id)
```

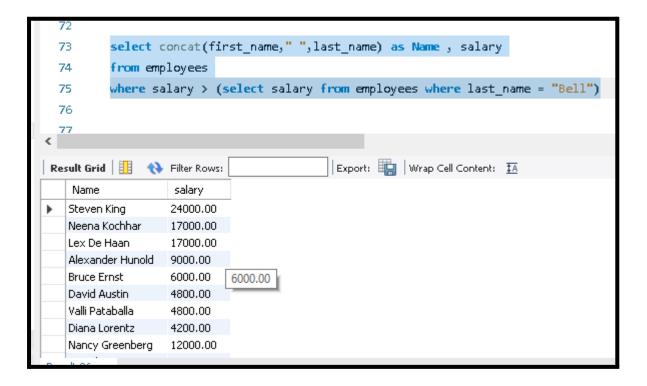


7. Write a query to find the name (first_name, last_name), and salary of the employees who earns more than the average salary and works in any of the IT departments.



8. Write a query to find the name (first_name, last_name), and salary of the employees who earns more than the earning of Mr. Bell.

```
select concat(first_name," ",last_name) as Name , salary from employees where salary > (select salary from employees where last _name = "Bell")
```



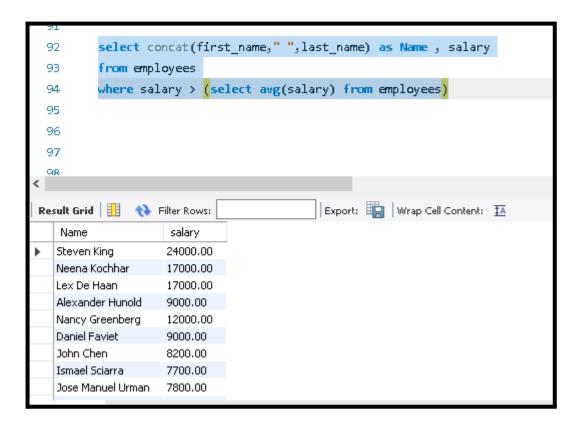
9. Write a query to find the name (first_name, last_name), and salary of the employees who earn the same salary as the minimum salary for all departments.

select concat(first_name," ",last_name) as Name, salary from employees e where salary = (select min(salary) from employees)



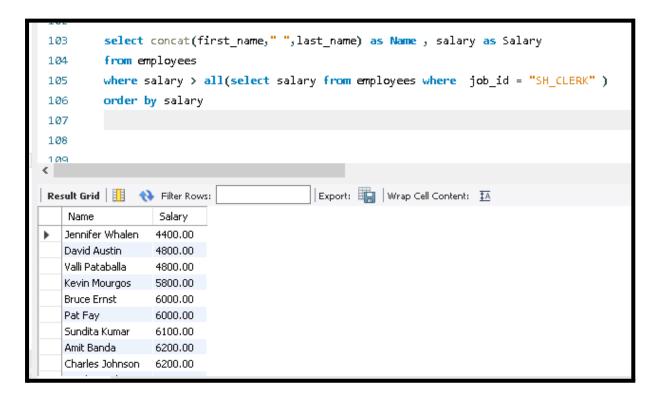
10. Write a query to find the name (first_name, last_name), and salary of the employees whose salary is greater than the average salary of all departments.

select concat(first_name," ",last_name) as Name , salary from employees where salary > (select avg(salary) from employees)



11. Write a query to find the name (first_name, last_name) and salary of the employees who earn a salary that is higher than the salary of all the Shipping Clerk (JOB_ID = 'SH CLERK'). Sort the results of the salary of the lowest to highest.

```
select concat(first_name," ",last_name) as Name , salary as Salary from employees where salary > all(select salary from employees where job_id = "SH_CLERK" ) order by salary
```



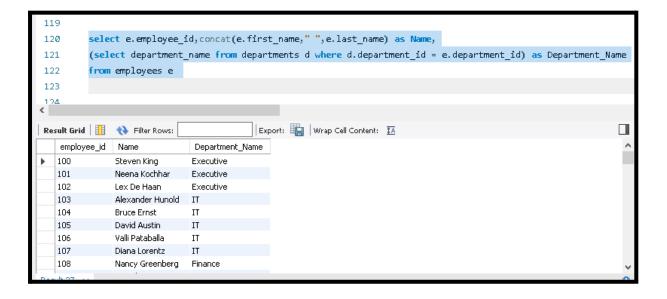
12. Write a query to find the name (first_name, last_name) of the employees who are not supervisors.

```
select concat(first_name," ",last_name) as Name
from employees
where department_id != (select department_id from departments where department_name =
"Executive")
```



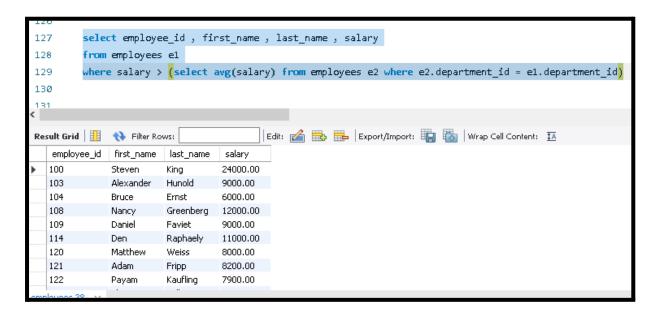
13. Write a query to display the employee ID, first name, last name, and department names of all employees.

select e.employee_id,concat(e.first_name," ",e.last_name) as Name, (select department_name from departments d where d.department_id = e.department_id) as Department_Name from employees e



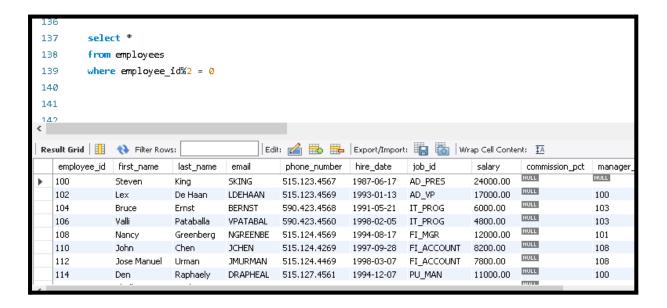
14. Write a query to display the employee ID, first name, last name, salary of all employees whose salary is above average for their departments.

select employee_id , first_name , last_name , salary from employees e1 where salary > (select avg(salary) from employees e2 where e2.department_id = e1.department_id)



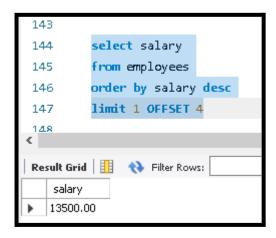
15. Write a query to fetch even numbered records from employees table.

select *
from employees
where employee_id%2 = 0



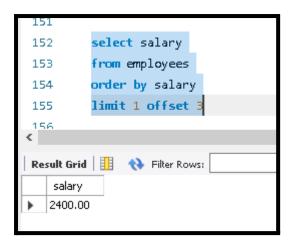
16. Write a query to find the 5th maximum salary in the employees table.

select salary from employees order by salary desc limit 1 OFFSET 4



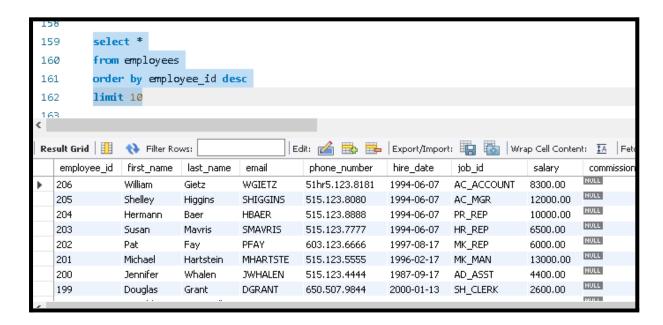
17. Write a query to find the 4th minimum salary in the employees table

select salary from employees order by salary limit 1 offset 3



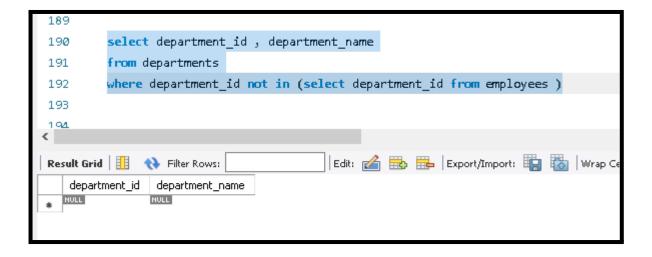
18. Write a query to select last 10 records from a table.

select *
from employees
order by employee_id desc
limit 10



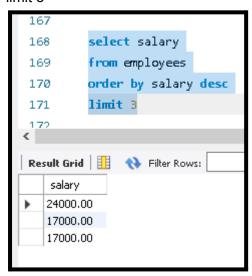
19. Write a query to list the department ID and name of all the departments where no employee is working.

select department_id , department_name from departments where department_id not in (select department_id from employees)



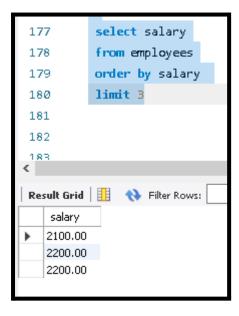
20. Write a query to get 3 maximum salaries.

select salary from employees order by salary desc limit 3



21. Write a query to get 3 minimum salaries.

select salary from employees order by salary limit 3



22. Write a query to get nth maximum salaries of employees.

select salary from employees order by salary desc LIMIT 1 OFFSET (n-1)