# SQL PROBLEM STATEMENT & SOLUTION | INTERNSHIP ELEVATE LABS

## WEEK(1)

Q1) Calculate the average monthly salary for each department

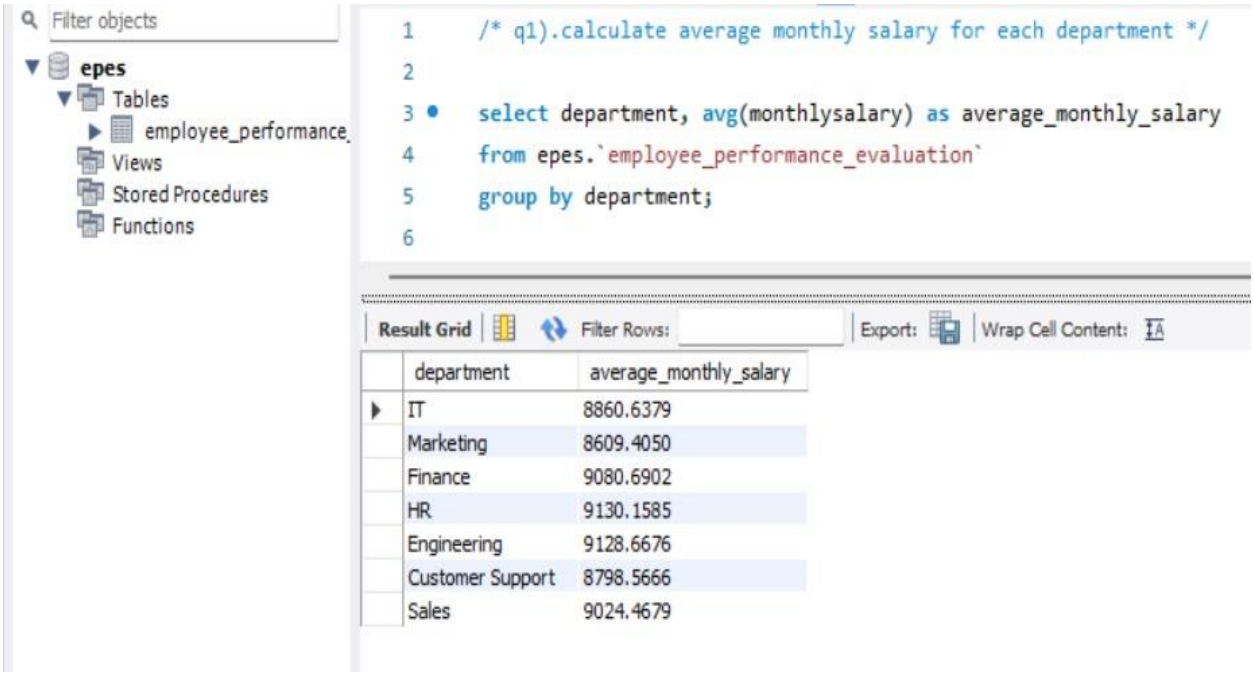
Ans:- **SELECT** DEPARTMENT,AVG(MONTHLYSALARY) **AS** AVERAGE_MONTHLY_SALARY

**FROM** EPES.`EMPLOYEE_PERFORMANCE_EVALUATION`

**GROUP BY** DEPARTMENT;

Explanation :-

- Here select department column from the table
- And along with avg(monthlysalary) get from the employee table
- AS keyword used for alternate name by our convenient
- We need all department thats why we used keyword as GROUP BY

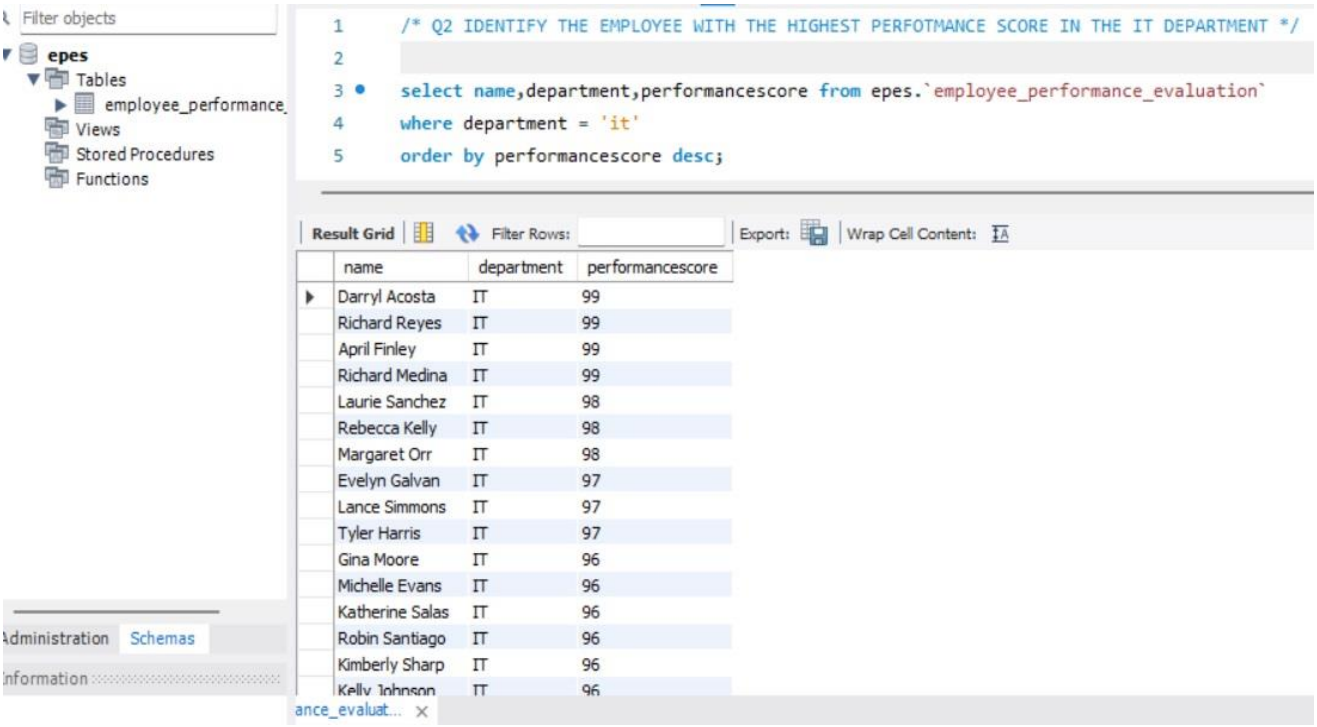


Q2) Identify the employee with the highest performance score in the IT department ?

Ans:- **SELECT** NAME, DEPARTMENT, PERFORMANCESCORE
**FROM** EPES.`EMPLOYEE_PERFORMANCE_EVALUATION`
**WHERE** DEPARTMENT = 'IT'
**ORDER BY** PERFORMANCESCORE DESC ;

Explanation :-

- Identify the highest performance score
- Select name column , department column and performancescore column from emplyee table
- We need IT dept details only thats why we used to **WHERE** clause this is condition
- We need highest score thats why we will use **ORDER BY** clause this is ascending order or descending order it will come

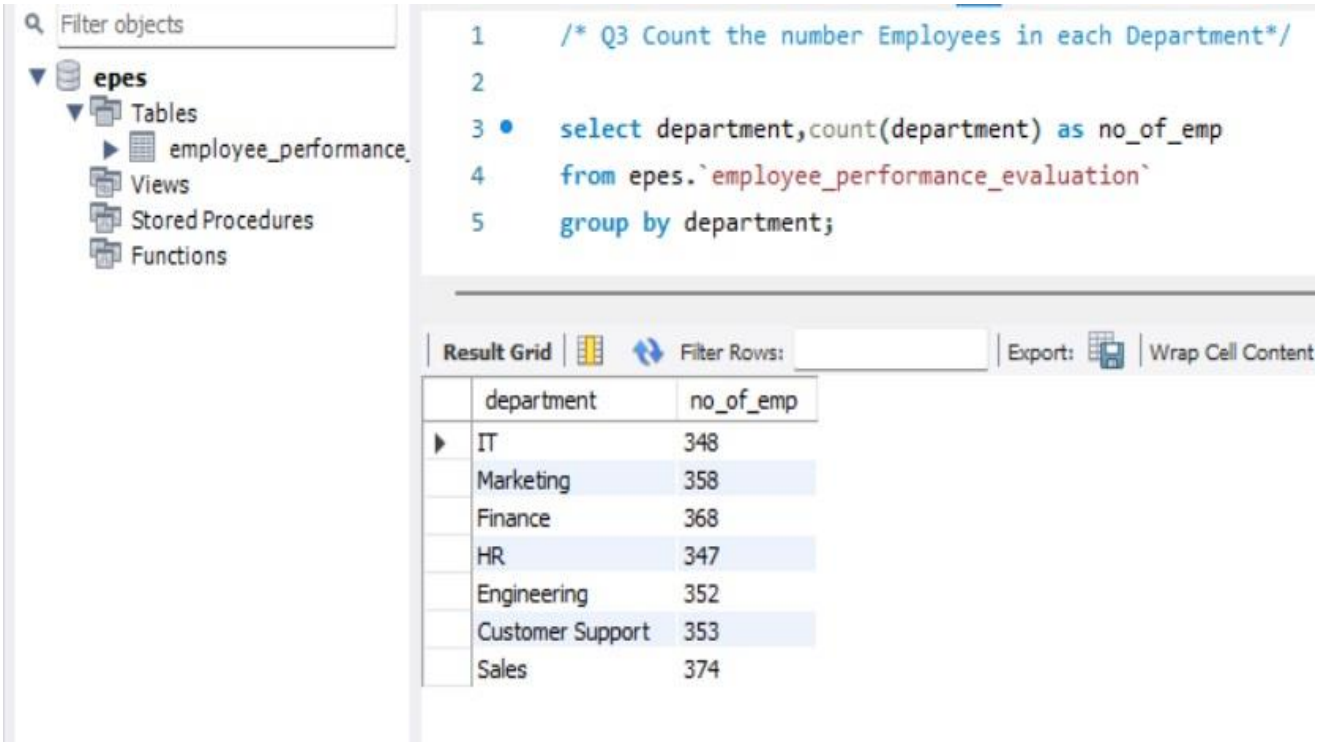


Q3) Count the number of employees in each Department ?

Ans:- **SELECT** DEPARTMENT, COUNT(DEPARTMENT)
**AS** NO_OF_EMP
FROM EPES.`EMPLOYEE_PERFORMANCE_EVALUATION`
**GROUP BY** DEPARTMENT;

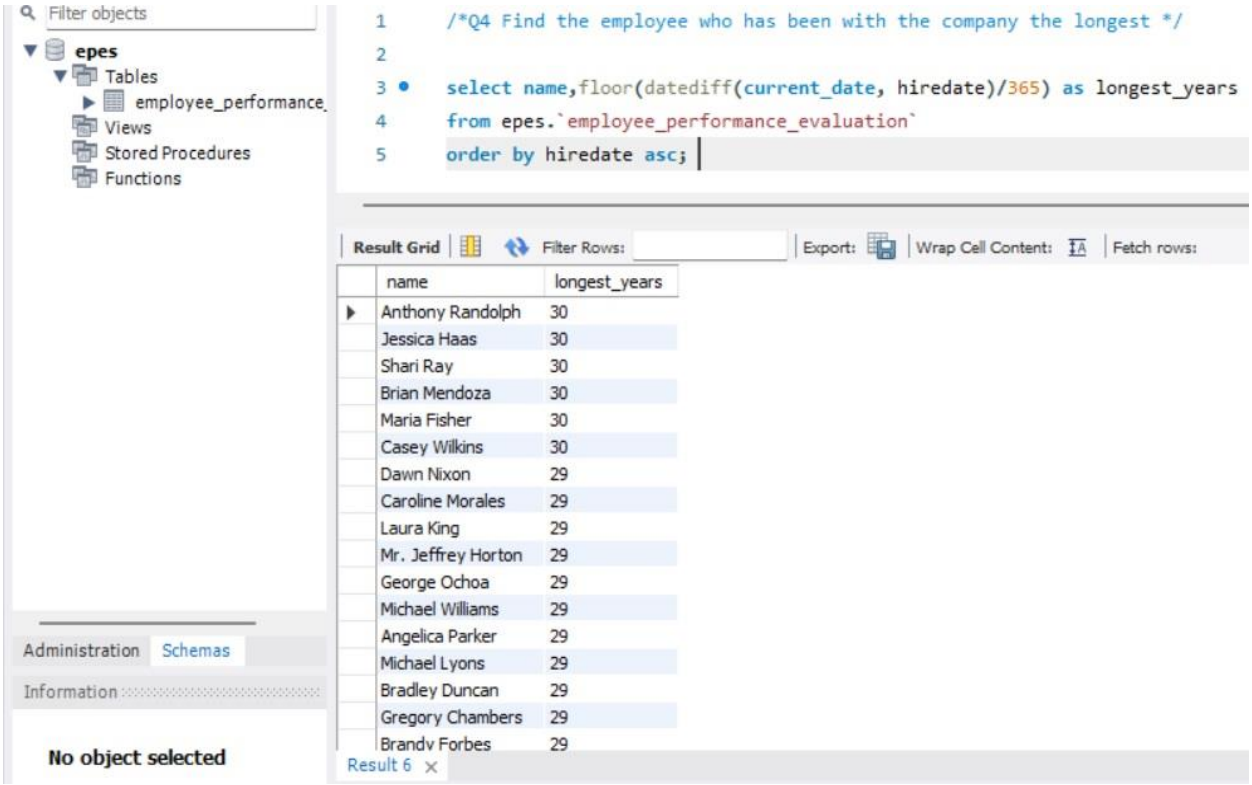
Explanation :-

- Here we have to calculate how many employees in each department
- First of all select department column we need department only
- Count the no.of employees in each department we can use
- COUNT() Function middle of the bracket put it on Department COUNT(Department)
- AS Command used for alternate the name column name
- GROUP BY Stetment rows and column group together individual department like IT , Marketing , Finance, etc




Q4) Find the employee who has been with the company the longest

Ans:- **SELECT** NAME, **FLOOR**(**DATEDIFF**(**CURRENT_DATE**, HIREDATE)/365) **AS** LONGEST_YEARS
**FROM** EPES.`EMPLOYEE_PERFORMANCE_EVALUATION`
**ORDER BY** HIRDEDATE ASC;

Explanation :-

- We have to calculate longest period who has stayed in the company
- Select name of the column and we need dates thats why we display the hiredate also
- In hiredate DATEDIFF() Function is used for compare two dates
- That is current date and hirdedate
- FLOOR() Function is used for largest number to smallest number
- These all the select and get from the employee table details
- Then Finally we need Order Wise thats why used ORDER BY Cluase using Hiredate Column with Ascending Order