

MYSQL ASSIGNMENT 3

emp_id	first_name	last_name	department	salary	hire_date
1	John	Doe	IT	60000.00	2019-01-10
2	Jane	Smith	HR	55000.00	2018-03-05
3	Emily	Jones	IT	62000.00	2020-07-23
4	Michael	Brown	Finance	70000.00	2016-05-14
5	Sarah	Davis	Finance	69000.00	2017-11-18
6	David	Johnson	HR	48000.00	2021-09-10

1. Find the average salary of employees in each department.

Select avg(salary), department from employee group by department;

avg(salary)	department
61000.0000	IT
51500.0000	HR
69500.0000	Finance

2. Find the total number of employees hired after 2019.

Select count(emp_id) as Joined_After_2019 from employee where hire_date>"2019-12-31";

Joined_After_2019
2

3. List the departments and the total salary of all employees in each department, ordered by the total salary.

Select department, sum(salary) as Total_Salary from employee group by department order by Total_Salary;

department	Total_Salary
HR	103000
IT	122000
Finance	139000

4. Find the highest salary in the Finance department.

Select max(Salary) from employee where department="Finance";

max(Salary)
70000

5. Get the top 3 highest-paid employees.

Select first_name, last_name, salary from employee order by salary desc limit 3;

first_name	last_name	salary
Michael	Brown	70000
Sarah	Davis	69000
Emily	Jones	62000

6. Find the department with the minimum average salary.

Select department, avg(salary) AS average_salary from employee group by department order by average_salary limit 1;

department	average_salary
HR	51500.0000

7. Display the total number of employees in each department, ordered by the number of employees.

Select department, count(emp_id) as no_of_employees from employee group by department order by no_of_employees;

department	no_of_employees
IT	2
HR	2
Finance	2

8. Find the average salary of employees who were hired before 2020.

Select avg(salary) from employee where hire_date<"2020-01-01";

avg(salary)
63500.0000

9. List the names of employees in the IT department ordered by hire date, with the most recently hired employees first.

Select first_name,last_name, hire_date from employee where department="IT" order by hire_date desc;

first_name	last_name	hire_date
Emily	Jones	2020-07-23
John	Doe	2019-01-10

10. Find the sum of salaries for all employees hired after January 1, 2019, ordered by salary.

Select count(emp_id) as no_of_employee,sum(salary) as total_salary from employee where hire_date>"2019-01-01";

no_of_employee	total_salary
3	170000

11. Get the employee with the lowest salary in the HR department.

select first_name, last_name, salary from employee where department="HR" order by salary limit 1;

first_name	last_name	salary
David	Johnson	48000

12. Find the total salary paid to employees in each department, but limit the result to the top 2 highest-paying departments.

Select department,sum(salary) as total_salary from employee group by department order by total_salary desc limit 2;

department	total_salary
Finance	139000
IT	122000

13. List all employees hired after 2018, ordered by salary, and show only the first 4 employees.

Select First_name, last_name, salary, hire_date from employee where hire_date>"2018-12-31" order by salary limit 4;

First_name	last_name	salary	hire_date
David	Johnson	48000	2021-09-10
John	Doe	60000	2019-01-10
Emily	Jones	62000	2020-07-23

14. Find the highest salary in the IT department, but limit the results to the top 1 result.

Select max(salary) as Highest_Salary from employee where department="IT";

Highest_Salary
62000

15. Get the average salary of employees in each department and list only departments with an average salary greater than \$60,000.

Select department, avg(salary) as avg_salary from employee group by department having avg_salary>60000;

department	avg_salary
IT	61000.0000
Finance	69500.0000