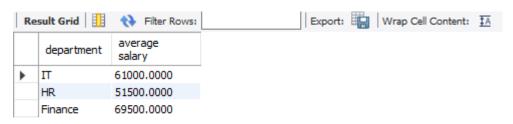
# **MYSQL ASSIGNMENT 3**

emp_id	first_name	last_name	department	salary	hire_date
1	John	Doe	Π	60000.00	2019-01-10
2	Jane	Smith	HR	55000.00	2018-03-05
3	Emily	Jones	Π	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 department,avg(salary) as "average salary" from emp\_details group by department;

select department,avg(salary) as "average salary" from emp\_details group by department;



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

select count(\*) from emp details where hire date > "2019-12-31";



**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 emp\_details group by department order by "total salary";



**4.** Find the highest salary in the Finance department.

select salary from emp\_details where department="Finance" order by salary desc limit 1;



5. Get the top 3 highest-paid employees.

select \* from emp details order by salary desc limit 3;

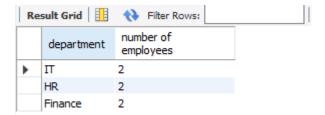
Re	Result Grid 🔢 🚷 Filter Rows: Edit: 🔏 🗒 🚟							
	emp_id	first_name	last_name	department	salary	hire_date		
•	4	Michael	Brown	Finance	70000	2016-05-14		
	5	Sarah	Davis	Finance	69000	2017-11-18		
	3	Emily	Jones	IT	62000	2020-07-23		
	NULL	NULL	NULL	NULL	NULL	NULL		

6. Find the department with the minimum average salary. select department, avg(salary) as average\_salary from emp\_details group by department order by average\_salary asc limit 1;



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

select department, count(emp\_id) as "number of employees" from emp\_details group by department order by "number of employees"; select department, count(\*) as "number of employees" from emp\_details group by department order by "number of employees";



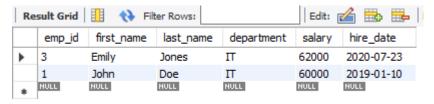
**8.** Find the average salary of employees who were hired before 2020.

select avg(salary) from emp\_details where hire\_date<"2020-01-01";



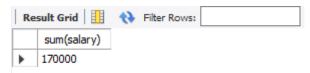
**9.** List the names of employees in the IT department ordered by hire date, with the most recently hired employees first.

## select \* from emp details where department="IT" order by hire date desc;



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

select sum(salary) from emp\_details where hire\_date>"2019-01-01";



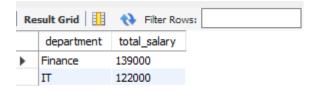
**11.** Get the employee with the lowest salary in the HR department.

#### select \* from emp details where department="HR" order by salary limit 1;



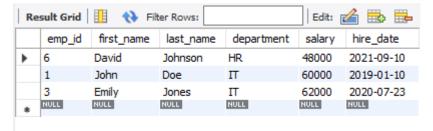
**12.** Find the total salary paid to employees in each department, but limit the result to the top 2 highest-paying departments.

select department ,sum(salary) as total\_salary from emp\_details group by department order by total salary desc limit 2;



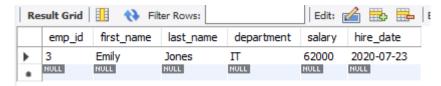
13. List all employees hired after 2018, ordered by salary, and show only the first 4 employees.

# select \* from emp details where hire date > "2018-12-31" order by salary limit 4;



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

## select \* from emp\_details where department="IT" order by salary desc limit 1;



**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 average\_salary from emp\_details group by department having average\_salary>60000.00;

