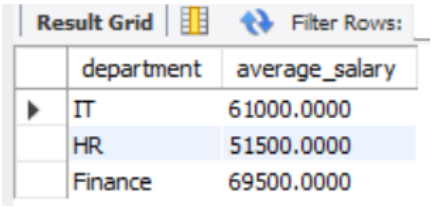
MYSQL ASSIGNMENT 3

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

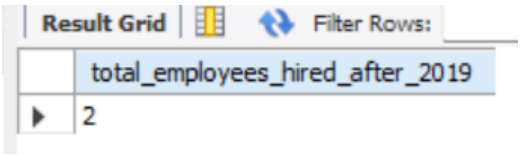
1. Find the average salary of employees in each department.

SELECT department, AVG(salary) AS average_salary FROM department GROUP BY department;



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

SELECT COUNT(*) AS total_employees_hired_after_2019 FROM department 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 totalsalary from department group by department order by totalsalary desc;

Result Grid | Filter Rows:

department	totalsalary
Finance	139000
IT	122000
HR	103000

4. Find the highest salary in the Finance department.

select salary as highestsalary from department where department= "finance" order by highestsalary desc limit 1;

Result Grid |

highestsalary
70000

5. Get the top 3 highest-paid employees.

select salary , first_name from department order by salary desc limit 3;

Result Grid | Filter

salary	first_name
70000	Michael
69000	Sarah
62000	Emily

6. Find the department with the minimum average salary.

select department , avg(salary) as averagesalary from department group by department order by averagesalary limit 1;

Result Grid | Filter Rows:

department	averagesalary
HR	51500.0000

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

select department , count(*) emp_id from department group by department order by emp_id;

Result Grid | Filter

department	emp_id
IT	2
HR	2
Finance	2

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

select avg(salary) from department where hire_date<"2020-01-01";

Result Grid

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 from department where department="IT" order by hire_date;

Result Grid | Filter Rows

first_name	last_name
John	Doe
Emily	Jones

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

select sum(salary) from department where hire_date>'2019-01-01' order by salary;

Result Grid

sum(salary)
170000

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

select salary from department where department="HR" order by salary limit 1;

Result Grid

	salary
▶	48000

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

select sum(salary),department from department group by department order by department limit 2;

Result Grid Filter Rows:

	sum(salary)	department
▶	139000	Finance
	103000	HR

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

select first_name,last_name from department where hire_date>'2018-01-01' order by salary desc limit 4;

Result Grid Filter Rows:

	first_name	last_name
▶	Emily	Jones
	John	Doe
	Jane	Smith
	David	Johnson

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

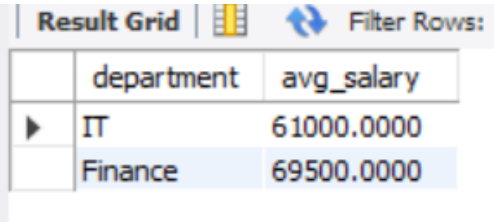
select salary , first_name from department where department='IT' order by salary desc limit 1;

Result Grid Filter R

	salary	first_name
▶	62000	Emily

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 department group by department having avg_salary>60000;


Result Grid | Filter Rows:

department	avg_salary
IT	61000.0000
Finance	69500.0000