

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 emp_details group by department;`

`select department,avg(salary) as "average salary" from emp_details group by department;`

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	department	average salary	
▶	IT	61000.0000	
	HR	51500.0000	
	Finance	69500.0000	

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

`select count(*) from emp_details where hire_date > "2019-12-31";`

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	count(*)		
▶	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 emp_details group by department order by "total salary";`

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	department	total salary	
▶	IT	122000	
	HR	103000	
	Finance	139000	








4. Find the highest salary in the Finance department.

`select salary from emp_details where department="Finance" order by salary desc limit 1;`

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
salary				
70000				

5. Get the top 3 highest-paid employees.

select * from emp_details order by salary desc limit 3;

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;

Result Grid	Filter Rows:
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 "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";

Result Grid	Filter Rows:
department	number of employees
IT	2
HR	2
Finance	2

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

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

Result Grid			Filter Rows: <input type="text"/>
	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 * from emp_details where department="IT" order by hire_date desc;

Result Grid




Filter Rows:

Edit:

	emp_id	first_name	last_name	department	salary	hire_date
	3	Emily	Jones	IT	62000	2020-07-23
	1	John	Doe	IT	60000	2019-01-10
	NULL	NULL	NULL	NULL	NULL	NULL







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";

Result Grid			Filter Rows:	
	sum(salary)			
	170000			

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

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

Result Grid				Filter Rows:		Edit:			
	emp_id	first_name	last_name	department	salary	hire_date			
	6	David	Johnson	HR	48000	2021-09-10			
*	NULL	NULL	NULL	NULL	NULL	NULL			

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;

Result Grid	Filter Rows:
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 * from emp_details where hire_date > "2018-12-31" order by salary limit 4;

Result Grid








Filter Rows:

Edit:

	emp_id	first_name	last_name	department	salary	hire_date
▶	6	David	Johnson	HR	48000	2021-09-10
	1	John	Doe	IT	60000	2019-01-10
	3	Emily	Jones	IT	62000	2020-07-23
✱	NULL	NULL	NULL	NULL	NULL	NULL

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;

Result Grid				Filter Rows:	Edit:   	
	emp_id	first_name	last_name	department	salary	hire_date
	3	Emily	Jones	IT	62000	2020-07-23
	NULL	NULL	NULL	NULL	NULL	NULL

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;

Result Grid	Filter Rows:
department	average_salary
IT	61000.0000
Finance	69500.0000