#### **MYSQL ASSIGNMENT 3**

```
CREATE DATABASE ASSIGNMENT_3;
USE ASSIGNMENT_3;
CREATE TABLE ASS_3(
 emp_id int not null,
 first_name varchar(50),
 last name varchar(50),
 department varchar(20),
 salary int not null,
 hire_date date);
SELECT * FROM ASS_3;
INSERT INTO
ASS_3(emp_id,first_name,last_name,department,salary,hire_date)
VALUES (1,"John","Doe","IT",60000,"2019-01-10"),
       (2,"Jane","Smith","HR",55000,"2018-03-05"),
       (3,"Emily","Jones","IT",62000,"2020-07-23"),
       (4,"Michael","Brown","FINANCE",70000,"2016-05-14"),
       (5,"Sarah","Davis","FINANCE",69000,"2017-11-18"),
       (6,"David","Johnson","HR",48000,"2021-09-10");
```

#### /\*Q1. Find the average salary of employees in each department.\*/

SELECT department, avg(salary) as "Average Salary of employee" from ASS\_3 group by department;

	department	Average Salary of employee
•	IT	61000.0000
	HR	51500.0000
	FINANCE	69500.0000

#### /\*Q2. Find the total number of employees hired after 2019.\*/

SELECT count(hire\_date) as "employees hired after 2019" from ASS\_3 where hire\_date > "2019-01-10";

	employees hired after 2019
•	2

## /\*Q3. 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 of all employees in the department" from ASS\_3

group by department
order by sum(salary);

	department	total salary of all employees in the department
•	HR	103000
	IT	122000
	FINANCE	139000

### /\*Q4. Find the highest salary in the Finance department.\*/

SELECT department, max(salary) as "highest salary" from ASS\_3 where department = "FINANCE";

	department	highest salary
•	FINANCE	70000

### /\*Q5. Get the top 3 highest-paid employees.\*/

SELECT first\_name,last\_name, max(salary) as "top 3 highest-paid employees" from ASS\_3 group by first\_name,last\_name order by max(salary) desc limit 3;

	first_name	last_name	top 3 highest-paid
•	Michael	Brown	70000
	Sarah	Davis	69000
	Emily	Jones	62000

### /\*Q6. Find the department with the minimum average salary.\*/

SELECT department, avg(salary) as "Average Salary of employee" from ASS\_3 group by department order by avg(salary) asc limit 1;

	department	Average Salary of employee	
•	HR	51500.0000	

### /\*Q7. Display the total number of employees in each department, ordered by the number of employees.\*/

SELECT department, count(emp\_id) as "total number of employees" from ASS\_3 group by department order by count(emp\_id);

	department	total number of employees
•	IT	2
	HR	2
	FINANCE	2

#### /\*Q8. Find the average salary of employees who were hired before 2020.\*/

SELECT hire\_date, avg(salary) as "average salary" from ASS\_3 group by hire\_date having hire\_date < "2020-07-23";

	hire_date	average salary
•	2019-01-10	60000.0000
	2018-03-05	55000.0000
	2016-05-14	70000.0000
	2017-11-18	69000.0000

### /\*Q9. 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, max(hire\_date) as "employees in the IT department" from ASS\_3 where department = "IT" group by first\_name,last\_name order by max(hire\_date) desc;

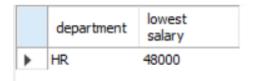
	first_name	last_name	employees in the IT department
•	Emily	Jones	2020-07-23
	John	Doe	2019-01-10

## /\*Q10. Find the sum of salaries for all employees hired after January 1, 2019, ordered by salary.\*/

Select sum(salary) as "Sum\_Of\_Salary" from ASS\_3 where hire\_date > "2019-01-10" order by salary;

#### /\*Q11. Get the employee with the lowest salary in the HR department.\*/

SELECT department, min(salary) as "lowest salary" from ASS\_3 where department = "HR";



### /\*Q12. 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 of all employees in the department" from ASS\_3

group by department order by sum(salary) desc limit 2;

	department	total salary of all employees in the department
•	FINANCE	139000
	IT	122000

## /\*Q13. List all employees hired after 2018, ordered by salary, and show only the first 4 employees.\*/

SELECT first\_name,last\_name from ASS\_3 where hire\_date > "2018-03-05" order by salary limit 4;

	first_name	last_name
•	David	Johnson
	John	Doe
	Emily	Jones

### /\*Q14. Find the highest salary in the IT department, but limit the results to the top 1 result.\*/

SELECT department, max(salary) as "highest salary" from ASS\_3 where department = "IT";

	department	highest salary
•	IT	62000

# /\*Q15. 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 of employee" from ASS\_3 group by department having avg(salary) > 60000;

	department	Average Salary of employee
•	IT	61000.0000
	FINANCE	69500.0000