emp_id	name	department	salary	Joining_date	city
1	Alice Smith	HR	45000	2020-02-15	New York
2	Bob Johnson	IT	60000	2019-08-23	Chicago
3	Carol White	IT	75000	2021-01-10	New York
4	David Brown	Finance	50000	2020-06-01	San Diego
5	Eva Adams	HR	47000	2018-04-12	Chicago
6	Frank Lee	Finance	65000	2021-11-05	New York
7	Grace Kim	IT	80000	2017-09-18	San Diego
8	Henry Clark	Marketing	55000	2019-12-29	Chicago
9	Irene Scott	Marketing	53000	2021-03-22	New York
10	Jack Davis	IT	72000	2020-08-14	Chicago

## Sample Queries to Practice

- 1. Show all employees who work in the IT department.
- 2. Find employees whose salary is greater than 60,000.
- 3. Get all employees who joined after 1st Jan 2020.
- 4. Find the total salary paid to employees in each department.
- 5. Show the highest paid employee in the Finance department.
- 6. List employees who are from Chicago and earn more than 55,000.
- 7. Find the number of employees in each city
- 8. Show employees in the IT department ordered by salary in descending order
- 9. Display the average salary of all employees.
- 10. Get the details of the top 3 highest paid employees
- 1. Show all employees who work in the IT department.

ıysql> SEL	ysql> SELECT * FROM employees WHERE department = 'IT';				
emp_id	name	department	salary	Joining_date	city
3 7	Bob Johnson Carol White Grace Kim Jack Davis	IT IT	75000 80000	2019-08-23 2021-01-10 2017-09-18 2020-08-14	Chicago New York San Diego Chicago

2. Find employees whose salary is greater than 60,000.

mysql> SELECT * FROM employees WHERE salary > 60000;					
emp_id	name	department	salary	Joining_date	city
6     7	Carol White Frank Lee Grace Kim Jack Davis	Finance	65000 80000	2021-01-10 2021-01-05 2017-09-18 2020-08-14	New York New York San Diego Chicago
++++++++					

3. Get all employees who joined after 1st Jan 2020.

```
mysql> SELECT * FROM employees WHERE Joining_date > '2020-01-01';
 emp_id
                         department
                                       salary
                                                Joining_date
                                                                city
          name
      1
          Alice Smith
                         HR
                                        45000
                                                 2020-02-15
                                                                New York
          Carol White
                                                                New York
      3
                         IT
                                        75000
                                                 2021-01-10
          David Brown
                                                                San Diego
      4
                         Finance
                                        50000
                                                2020-06-01
          Frank Lee
                                                                New York
      6
                         Finance
                                        65000
                                                2021-01-05
          Irene Scott
                         Marketing
                                                 2021-03-22
                                                                New York
      9
                                        53000
          Jack Davis
                                        72000
                                                2020-08-14
                                                                Chicago
     10
 rows in set (0.01 sec)
```

4. Find the total salary paid to employees in each department.

5. Show the highest paid employee in the finance department.

6. List employees who are from Chicago and earn more than 55,000.

```
mysql> SELECT * FROM employees
    -> WHERE city = 'Chicago' AND salary > 55000;
  emp_id
                         department
                                     salary
                                                Joining_date
                                                               city
           Bob Johnson
                                                2019-08-23
       2
                         IT
                                        60000
                                                               Chicago
                                                2020-08-14
           Jack Davis
                                                               Chicago
      10
                                        72000
 rows in set (0.00 sec)
```

7. Find the number of employees in each city.

8. Show employees in the IT department ordered by salary in descending order

```
mysql> SELECT * FROM employees
    -> WHERE department = 'IT'
   -> ORDER BY salary DESC;
                                                 Joining_date
 emp_id |
           name
                          department
                                     salary
                                                                 city
           Grace Kim
       7
                          IT
                                         80000
                                                 2017-09-18
                                                                 San Diego
           Carol White
                                                                 New York
       3
                          IT
                                         75000
                                                 2021-01-10
           Jack Davis
      10
                          IT
                                         72000
                                                 2020-08-14
                                                                 Chicago
           Bob Johnson
                          IT
                                         60000
                                                 2019-08-23
                                                                 Chicago
 rows in set (0.00 sec)
```

9. Display the average salary of all employees.

```
mysql> SELECT AVG(salary) AS avg_salary FROM employees;
+-----+
| avg_salary |
+-----+
| 60200.0000 |
+-----+
1 row in set (0.00 sec)
```

10. Get the details of the top 3 highest paid employees.

```
mysql> SELECT * FROM employees
   -> ORDER BY salary DESC
-> LIMIT 3;
 emp_id | name
                         | department | salary
                                                  Joining_date | city
           Grace Kim
                          ΙT
                                         80000
                                                  2017-09-18
                                                                   San Diego
       3
           Carol White
                          ΙT
                                          75000
                                                  2021-01-10
                                                                  New York
      10
           Jack Davis
                          ΙT
                                          72000
                                                  2020-08-14
                                                                  Chicago
 rows in set (0.00 sec)
```