| 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.
- 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

Create the employees Table.

```
mysql> CREATE TABLE employees (
-> emp_id INT PRIMARY KEY,
-> name VARCHAR(50),
-> department VARCHAR(30),
-> salary INT,
-> Joining_date DATE,
-> city VARCHAR(30)
->);
Query OK, 0 rows affected (0.05 sec)
```

Insert the values into employees Tables.

```
mysql> INSERT INTO employees (emp_id, name, department, salary, Joining_date, city)

-> VALUES
-> (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, '2021-03-28', 'New York'),
-> (10, 'Jack Davis', 'IT', 72000, '2020-08-14', 'Chicago');
Query OK, 10 rows affected (0.03 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

Show all values in employees Table.

```
mysql> SELECT * FROM employees;
                          department
                                        salary |
                                                  Joining_date
                                                                  city
  emp_id |
           name
           Alice Smith
       1
                                          45000
                                                  2020-02-15
                                                                  New York
           Bob Johnson
       2
                          IT
                                          60000
                                                  2019-08-23
                                                                  Chicago
           Carol White
       3
                                         75000
                                                  2021-01-10
                                                                  New York
                          IT
       4
           David Brown
                          Finance
                                         50000
                                                  2020-06-01
                                                                  San Diego
       5
           Eva Adams
                          HR
                                         47000
                                                  2018-04-12
                                                                  Chicago
                          Finance
           Frank Lee
                                                                  New York
       6
                                          65000
                                                  2021-11-05
       7
           Grace Kim
                                                  2017-09-18
                                                                  San Diego
                                         80000
       8
           Henry Clark
                          Marketing
                                          55000
                                                  2019-12-29
                                                                  Chicago
                                          53000
       9
           Irene Scott
                          Marketing
                                                  2021-03-28
                                                                  New York
           Jack Davis
                                          72000
                                                  2020-08-14
                                                                  Chicago
      10
                          IT
10 rows in set (0.00 sec)
```

1. Show all employees who work in the IT department.

```
mysql> SELECT * FROM employees WHERE department = 'IT';
  emp_id
                                        salary
                                                  Joining_date
                                                                | citv
           name
                          department
       2
           Bob Johnson
                                                  2019-08-23
                                                                  Chicago
                          ΙT
                                         60000
       3
           Carol White
                          IT
                                         75000
                                                  2021-01-10
                                                                  New York
                                         80000
       7
           Grace Kim
                          ΙT
                                                  2017-09-18
                                                                  San Diego
           Jack Davis
                          ΙT
                                         72000
                                                  2020-08-14
                                                                  Chicago
4 rows in set (0.03 sec)
```

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

```
mysql> SELECT * FROM employees WHERE salary >
                                                  60000;
                                                 Joining_date
                                                                 city
  emp_id
                          department
                                        salary
       3
           Carol White
                                         75000
                                                 2021-01-10
                                                                 New York
                                                                 New York
       6
           Frank Lee
                          Finance
                                         65000
                                                 2021-11-05
           Grace Kim
                                                                 San Diego
       7
                          IT
                                         80000
                                                 2017-09-18
           Jack Davis
      10
                          ΙT
                                         72000
                                                 2020-08-14
                                                                 Chicago
4 rows in set (0.01 sec)
```

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

```
mysql> SELECT * FROM employees WHERE joining_date > '2020-01-01';
                          department |
                                                 Joining_date |
  emp_id |
           name
                                       salary
       1
           Alice Smith
                          HR
                                                                 New York
                                         45000
                                                 2020-02-15
           Carol White
                                                                 New York
       3
                          IT
                                         75000
                                                 2021-01-10
       4
           David Brown
                          Finance
                                         50000
                                                 2020-06-01
                                                                 San Diego
           Frank Lee
                          Finance
                                         65000
                                                 2021-11-05
                                                                 New York
       6
           Irene Scott
                          Marketing
                                         53000
                                                 2021-03-28
                                                                 New York
           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
           name
                          department
                                       salary
                                                 Joining_date
                                                                city
       2
           Bob Johnson
                                                 2019-08-23
                                                                Chicago
                          ΙT
                                         60000
                                                 2020-08-14
                                                                Chicago
      10
           Jack Davis
                                        72000
2 rows in set (0.01 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;
                                                                 city
 emp_id
           name
                          department
                                        salary
                                                 Joining_date
       7
           Grace Kim
                          ΙT
                                         80000
                                                 2017-09-18
                                                                 San Diego
       3
           Carol White
                          IT
                                         75000
                                                 2021-01-10
                                                                 New York
           Jack Davis
      10
                          IT
                                         72000
                                                 2020-08-14
                                                                 Chicago
           Bob Johnson
                                                 2019-08-23
       2
                          IT
                                         60000
                                                                 Chicago
4 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 (0.01 sec)
```

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

```
* FROM employees ORDER BY salary DESC LIMIT 3;
  emp_id
                                                  Joining_date
                                                                 city
                          department
                                        salary
           name
       7
           Grace Kim
                          IT
                                         80000
                                                  2017-09-18
                                                                  San Diego
           Carol White
                                         75000
                                                  2021-01-10
                                                                 New York
       3
                          IT
      10
           Jack Davis
                          IT
                                         72000
                                                  2020-08-14
                                                                 Chicago
3 rows in set (0.00 sec)
```