PRACTICE:-

CREATEING the table:-

CREATE TABLE employee (emp_id INT PRIMARY KEY, name VARCHAR(50), department VARCHAR(50), salary INT, joining_date DATE, city VARCHAR(50)
);

INSERTING THE DATA:-

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, '2021-03-22', 'New York'),
- (10, 'Jack Davis', 'IT', 72000, '2020-08-14', 'Chicago');

DATA:

SELECT * FROM employee;

```
mysql> select * from employee;
  emp_id
                           department
                                         salary
                                                   joining_date
                                                                   city
            name
       1
            alice smith
                           HR
                                          45000
                                                   2020-02-15
                                                                   New York
       2
            Bob Johnson
                           ΙT
                                          60000
                                                   2019-08-23
                                                                   Chicago
       3
                                                                   New York
            Carol White
                           ΙT
                                          75000
                                                   2021-01-10
       4
            David Brown
                           Finance
                                          50000
                                                   2020-06-01
                                                                   San Diego
       5
            Eva Adams
                                          47000
                                                   2018-04-12
                                                                   Chicago
       6
            Frank Lee
                           Finance
                                          65000
                                                   2021-11-05
                                                                   New York
       7
                                                   2017-09-18
                                                                   San Diego
            Grace Kim
                           IT
                                          80000
                           Marketing
       8
            Henry Clark
                                          55000
                                                   2019-12-29
                                                                   Chicago
       9
            Irene Scott
                           Marketing
                                          53000
                                                   2021-03-22
                                                                   New York
      10
            Jack Davis
                           IT
                                          72000
                                                   2020-08-14
                                                                   Chicago
10 rows in set (0.01 sec)
```

QUERIES:-

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

```
mysql> SELECT * FROM employee WHERE department = 'IT';
                                        salary |
                                                                  city
  emp_id |
                          department
                                                 joining_date
       2
           Bob Johnson
                                         60000
                                                  2019-08-23
                                                                  Chicago
       3
           Carol White
                                         75000
                                                  2021-01-10
                                                                  New York
                          IT
       7
           Grace Kim
                                                  2017-09-18
                                                                  San Diego
                          IT
                                         80000
           Jack Davis
      10
                          IT
                                         72000
                                                  2020-08-14
                                                                  Chicago
4 rows in set (0.00 sec)
```

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

```
mysql> SELECT * FROM employee WHERE salary > 60000;
  emp_id
                          department
                                       salary
                                                 joining_date
           name
                                                                 city
       3
           Carol White
                          ΙT
                                         75000
                                                 2021-01-10
                                                                 New York
                                                                 New York
       6
           Frank Lee
                                         65000
                                                 2021-11-05
                          Finance
       7
           Grace Kim
                          IT
                                         80000
                                                 2017-09-18
                                                                 San Diego
           Jack Davis
                          IT
                                         72000
                                                 2020-08-14
                                                                 Chicago
4 rows in set (0.00 sec)
```

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

```
mysql> SELECT * FROM employee WHERE joining_date > '2020-01-01';
 emp_id |
                                                joining_date
           name
                         department
                                      salary
                                                               city
           alice smith
                                                                New York
       1
                         HR
                                        45000
                                                2020-02-15
                                        75000
           Carol White
                         IT
       3
                                                2021-01-10
                                                                New York
                                                                San Diego
      4
           David Brown
                         Finance
                                        50000
                                                2020-06-01
       6
           Frank Lee
                         Finance
                                        65000
                                                2021-11-05
                                                                New York
           Irene Scott
                         Marketing
                                        53000
                                                2021-03-22
                                                                New York
           Jack Davis
                                                                Chicago
      10
                                        72000
                                                2020-08-14
 rows in set (0.00 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 employee WHERE city = 'Chicago' AND salary > 55000;
 emp_id |
                                       salary
                                                 joining_date
                                                                 city
           name
                          department
       2
           Bob Johnson
                          IT
                                         60000
                                                 2019-08-23
                                                                 Chicago
      10
           Jack Davis
                          IT
                                         72000
                                                 2020-08-14
                                                                 Chicago
 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 employee WHERE department = 'IT' ORDER BY salary DESC;
  emp_id |
          name
                         department | salary | joining_date
       7
           Grace Kim
                          IT
                                        80000
                                                 2017-09-18
                                                                 San Diego
           Carol White
                                                                 New York
                          IT
                                        75000
                                                 2021-01-10
       3
      10
           Jack Davis
                          IT
                                        72000
                                                 2020-08-14
                                                                 Chicago
           Bob Johnson
                                        60000
                                                 2019-08-23
                          ΙT
                                                                 Chicago
4 rows in set (0.00 sec)
```

-- 9. Display the average salary of all employees.

```
mysql> SELECT AVG(salary) AS avg_salary FROM employee;
+-----+
| 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 employee ORDER BY salary DESC LIMIT 3; +					
emp_id	name	department	salary	joining_date	city
j 3 j	Grace Kim Carol White Jack Davis		75000	2017-09-18 2021-01-10 2020-08-14	San Diego New York Chicago