Note : **Create the following dummy table in MySQL Workbench using CREATE FUNCTION-**

```
-- Create Database
CREATE DATABASE companyDB;

-- Select Database
USE companyDB;

-- Create Employees Table
CREATE TABLE Employees (
    EmpID INT PRIMARY KEY,
    EmpName VARCHAR(50),
    Department VARCHAR(30),
    City VARCHAR(30),
    Salary INT,
    HireDate DATE
);

-- Insert Data
INSERT INTO Employees (EmpID, EmpName, Department, City, Salary,
HireDate) VALUES
(101, 'Rahul Mehta', 'Sales', 'Delhi', 55000, '2020-04-12'),
(102, 'Priya Sharma', 'HR', 'Mumbai', 62000, '2019-09-25'),
(103, 'Aman Singh', 'IT', 'Bengaluru', 72000, '2021-03-10'),
(104, 'Neha Patel', 'Sales', 'Delhi', 48000, '2022-01-14'),
(105, 'Karan Joshi', 'Marketing', 'Pune', 45000, '2018-07-22'),
(106, 'Divya Nair', 'IT', 'Chennai', 81000, '2019-12-11'),
(107, 'Raj Kumar', 'HR', 'Delhi', 60000, '2020-05-28'),
(108, 'Simran Kaur', 'Finance', 'Mumbai', 58000, '2021-08-03'),
(109, 'Arjun Reddy', 'IT', 'Hyderabad', 70000, '2022-02-18'),
(110, 'Anjali Das', 'Sales', 'Kolkata', 51000, '2023-01-15');
```

EmpID	EmpName	Department	City	Salary	HireDate
101	Rahul Mehta	Sales	Delhi	55000	2020-04-12
102	Priya Sharma	HR	Mumbai	62000	2019-09-25
103	Aman Singh	IT	Bengaluru	72000	2021-03-10
104	Neha Patel	Sales	Delhi	48000	2022-01-14
105	Karan Joshi	Marketing	Pune	45000	2018-07-22
106	Divya Nair	IT	Chennai	81000	2019-12-11
107	Raj Kumar	HR	Delhi	60000	2020-05-28
108	Simran Kaur	Finance	Mumbai	58000	2021-08-03
109	Arjun Reddy	IT	Hyderabad	70000	2022-02-18
110	Anjali Das	Sales	Kolkata	51000	2023-01-15

Q.1 Show employees working in either the 'IT' or 'HR' departments.

```
mysql> select * from employees where Department in ("IT", "HR");
```

EmpID	EmpName	Department	City	Salary	HireDate
102	Priya Sharma	HR	Mumbai	62000	2019-09-25
103	Aman Singh	IT	Bengaluru	72000	2021-03-10
106	Divya Nair	IT	Chennai	81000	2019-12-11
107	Raj Kumar	HR	Delhi	60000	2020-05-28
109	Arjun Reddy	IT	Hyderabad	70000	2022-02-18

Q.2 Retrieve employees whose department is in 'Sales', 'IT', or 'Finance'.

```
mysql> select * from employees where Department in ("IT", "Sales",
"Finance");
```

EmpID	EmpName	Department	City	Salary	HireDate
101	Rahul Mehta	Sales	Delhi	55000	2020-04-12
103	Aman Singh	IT	Bengaluru	72000	2021-03-10
104	Neha Patel	Sales	Delhi	48000	2022-01-14
106	Divya Nair	IT	Chennai	81000	2019-12-11
108	Simran Kaur	Finance	Mumbai	58000	2021-08-03
109	Arjun Reddy	IT	Hyderabad	70000	2022-02-18
110	Anjali Das	Sales	Kolkata	51000	2023-01-15

Q.3. Display employees whose salary is between ₹50,000 and ₹70,000

```
mysql> select * from employees where salary between 50000 and 70000;
```

EmpID	EmpName	Department	City	Salary	HireDate
101	Rahul Mehta	Sales	Delhi	55000	2020-04-12
102	Priya Sharma	HR	Mumbai	62000	2019-09-25
107	Raj Kumar	HR	Delhi	60000	2020-05-28
108	Simran Kaur	Finance	Mumbai	58000	2021-08-03
109	Arjun Reddy	IT	Hyderabad	70000	2022-02-18
110	Anjali Das	Sales	Kolkata	51000	2023-01-15

Q.4. List employees whose names start with the letter 'A'.

```
mysql> select * from employees where EmpName like "A%";
```

EmpID	EmpName	Department	City	Salary	HireDate
103	Aman Singh	IT	Bengaluru	72000	2021-03-10
109	Arjun Reddy	IT	Hyderabad	70000	2022-02-18
110	Anjali Das	Sales	Kolkata	51000	2023-01-15

Q.5. Find employees whose names contain the substring ‘an’.

```
mysql> select * from employees where EmpName like "%an%";
+-------+-------------+------------+-----------+--------+------------+
| EmpID | EmpName     | Department | City      | Salary | HireDate   |
+-------+-------------+------------+-----------+--------+------------+
|   103 | Aman Singh  | IT         | Bengaluru |  72000 | 2021-03-10 |
|   105 | Karan Joshi | Marketing  | Pune      |  45000 | 2018-07-22 |
|   108 | Simran Kaur | Finance    | Mumbai    |  58000 | 2021-08-03 |
|   110 | Anjali Das  | Sales      | Kolkata   |  51000 | 2023-01-15 |
+-------+-------------+------------+-----------+--------+------------+
```

Q.6. Show employees who are from ‘Delhi’ or ‘Mumbai’ and earn more than ₹55,000

```
mysql> select * from employees where city in ("Delhi", "Mumbai") and Salary
> 55000;
+-------+--------------+------------+--------+--------+------------+
| EmpID | EmpName      | Department | City   | Salary | HireDate   |
+-------+--------------+------------+--------+--------+------------+
|   102 | Priya Sharma | HR         | Mumbai |  62000 | 2019-09-25 |
|   107 | Raj Kumar    | HR         | Delhi  |  60000 | 2020-05-28 |
|   108 | Simran Kaur  | Finance    | Mumbai |  58000 | 2021-08-03 |
+-------+--------------+------------+--------+--------+------------+
```

Q.7. Display all employees except those from the ‘HR’ department

```
mysql> select * from employees where Department not in ("HR");
+-------+-------------+------------+-----------+--------+------------+
| EmpID | EmpName     | Department | City      | Salary | HireDate   |
+-------+-------------+------------+-----------+--------+------------+
|   101 | Rahul Mehta | Sales      | Delhi     |  55000 | 2020-04-12 |
|   103 | Aman Singh  | IT         | Bengaluru |  72000 | 2021-03-10 |
|   104 | Neha Patel  | Sales      | Delhi     |  48000 | 2022-01-14 |
|   105 | Karan Joshi | Marketing  | Pune      |  45000 | 2018-07-22 |
|   106 | Divya Nair  | IT         | Chennai   |  81000 | 2019-12-11 |
|   108 | Simran Kaur | Finance    | Mumbai    |  58000 | 2021-08-03 |
|   109 | Arjun Reddy | IT         | Hyderabad |  70000 | 2022-02-18 |
|   110 | Anjali Das  | Sales      | Kolkata   |  51000 | 2023-01-15 |
+-------+-------------+------------+-----------+--------+------------+
```

Q.8. Get all employees hired between 2019 and 2022, ordered by HireDate (oldest first)

```
mysql> select * from employees where HireDate between '2019-01-01' and
'2022-12-31' order by HireDate ;
+-------+--------------+------------+-----------+--------+------------+
| EmpID | EmpName      | Department | City      | Salary | HireDate   |
+-------+--------------+------------+-----------+--------+------------+
|   102 | Priya Sharma | HR         | Mumbai    |  62000 | 2019-09-25 |
|   106 | Divya Nair   | IT         | Chennai   |  81000 | 2019-12-11 |
|   101 | Rahul Mehta  | Sales      | Delhi     |  55000 | 2020-04-12 |
|   107 | Raj Kumar    | HR         | Delhi     |  60000 | 2020-05-28 |
|   103 | Aman Singh   | IT         | Bengaluru |  72000 | 2021-03-10 |
|   108 | Simran Kaur  | Finance    | Mumbai    |  58000 | 2021-08-03 |
|   104 | Neha Patel   | Sales      | Delhi     |  48000 | 2022-01-14 |
|   109 | Arjun Reddy  | IT         | Hyderabad |  70000 | 2022-02-18 |
+-------+--------------+------------+-----------+--------+------------+
```