## **Question 1**: Consider the MySQL tables given below.

#### **EmployeeInfo Table:**

EmpID	EmpFnam e	EmpLnam e	Departme nt	Project	Address	DOB	Gender
1	Sanjay	Mehra	HR	P1	Hyderabad (HYD)	01/12/1976	М
2	Ananya	Mishra	Admin	P2	Delhi(DEL)	02/05/1968	F
3	Rohan	Diwan	Account	Р3	Mumbai(B OM)	01/01/1980	М
4	Sonia	Kulkarni	HR	P1	Hyderabad (HYD)	02/05/1992	F
5	Ankit	Kapoor	Admin	P2	Delhi(DEL)	03/07/1994	М

#### **EmployeePosition Table:**

EmpID	EmpPosition	DateOfJoining	Salary	
1	Manager	01/05/2022	500000	
2	Executive	02/05/2022	75000	
3	Manager	01/05/2022	90000	
2	Lead	02/05/2022	85000	
1 Executive		01/05/2022	300000	

# Based the table write queries

- 1) Write queries to create the tables given above and add data in to the table as given above.
- 2) Get the list of Employees with their first name, last name, department and position.
- 3) Get list of all projects and count of employees working in each project.
- 4) Get list of all positions and count of employees working in each position.
- 5) Find the employees getting the maximum and minimum salary.

#### 1 Ans:

mysql>CREATE TABLE EmployeeInfo (

EmpID INT PRIMARY KEY,

```
EmpFname VARCHAR(255) NOT NULL,
 EmpLname VARCHAR(255) NOT NULL,
 Department VARCHAR(50) NOT NULL,
 Project VARCHAR(50),
 Address VARCHAR(255),
 DOB VARCHAR(20),
 Gender CHAR(1) NOT NULL
);
mysql>INSERT INTO EmployeeInfo (EmpID, EmpFname, EmpLname, Department, Project,
Address, DOB, Gender)
VALUES (1, 'Sanjay', 'Mehra', 'HR', 'P1', 'Hyderabad (HYD)', '01/12/1976', 'M'),
   (2, 'Ananya', 'Mishra', 'Admin', 'P2', 'Delhi(DEL)', '02/05/1968', 'F'),
   (3, 'Rohan', 'Diwan', 'Account', 'P3', 'Mumbai(BOM)', '01/01/1980', 'M'),
   (4, 'Sonia', 'Kulkarni', 'HR', 'P1', 'Hyderabad (HYD)', '02/05/1992', 'F'),
   (5, 'Ankit', 'Kapoor', 'Admin', 'P2', 'Delhi(DEL)', '03/07/1994', 'M');
mysql>CREATE TABLE EmployeePosition (
 EmpID INT REFERENCES EmployeeInfo(EmpID),
 EmpPosition VARCHAR(255) NOT NULL,
 DateOfJoining varchar(10),
 Salary INT NOT NULL
);
mysql>INSERT INTO EmployeePosition (EmpID, EmpPosition, DateOfJoining, Salary)
VALUES (1, 'Manager', '01/05/2022', 500000),
   (2, 'Executive', '02/05/2022', 75000),
```

- (2, 'Lead', '02/05/2022', 85000),
- (3, 'Manager', '02/05/2022', 90000),
- (1, 'Executive', '02/05/2022', 300000);

EmpID	EmpFname	EmpLname	Department	Project	Address	DOB	Gender
1   2   3   4   5	Sanjay Ananya Rohan Sonia Ankit	Mehra Mishra Diwan Kulkarni Kapoor	HR Admin Account HR Admin	P1 P2 P3 P1 P2	Hyderabad (HYD) Delhi(DEL) Mumbai(BOM) Hyderabad (HYD) Delhi(DEL)	02/05/1968 01/01/1980	F M F

mysql> select *from EmployeePosition;						
EmpID	EmpPosition	DateOfJoining	Salary			
+	M		F00000			
		01/05/2022	500000			
2	Executive	02/05/2022	75000			
2	Lead	02/05/2022	85000			
3	Manager	02/05/2022	90000			
1	Executive	02/05/2022	300000			
++						
5 rows in set (0.00 sec)						

# 2 Ans:

 $mysql > SELECT\ DISTINCT\ emp1. EmpFname,\ emp1. EmpLname,\ emp1. Department,\ emp2. EmpPosition$ 

FROM EmployeeInfo AS emp1

LEFT JOIN EmployeePosition AS emp2 ON emp1.EmpID = emp2.EmpID;

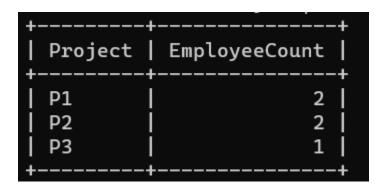
+		Department	++   EmpPosition   +
Sanjay Sanjay Sanjay Ananya Ananya Rohan Sonia Ankit	Mehra Mehra Mishra Mishra Diwan Kulkarni Kapoor	HR HR Admin Admin Account HR Admin	Executive     Manager     Manager     Executive     Lead     NULL     NULL

### 3 Ans:

mysql>SELECT Project, COUNT(EmpID) as EmployeeCount

FROM EmployeeInfo

GROUP BY Project;

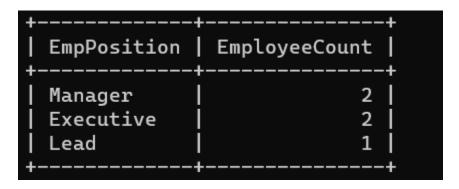


### 4 Ans:

mysql>SELECT EmpPosition, COUNT(EmpID) as EmployeeCount

FROM EmployeePosition

GROUP BY EmpPosition;



#### 5 Ans:

mysql>SELECT EmpID, EmpFname, EmpLname, Salary

FROM EmployeePosition

WHERE Salary IN ((SELECT MAX(Salary) FROM EmployeePosition), (SELECT MIN(Salary) FROM EmployeePosition));

```
+-----+
| EmpID | Salary |
+-----+
| 1 | 500000 |
| 2 | 75000 |
+-----+
```

(or)

SELECT EmpID, Salary,

**CASE** 

WHEN Salary = (SELECT MAX(Salary) FROM EmployeePosition) THEN 'Max'

WHEN Salary = (SELECT MIN(Salary) FROM EmployeePosition) THEN 'Min'

END as SalaryType

FROM EmployeePosition

WHERE Salary IN ((SELECT MAX(Salary) FROM EmployeePosition), (SELECT MIN(Salary) FROM EmployeePosition));

