# MYSQL Assignment No:3

### Consider the following table structure for this assignment:

```
mysql> CREATE DATABASE Saranya;
Query OK, 1 row affected (0.02 sec)
mysql> USE Saranya;
Database changed
mmysql> CREATE TABLE CUSTOMER(Cust_id INT PRIMARY KEY, C_name VARCHAR(15), City
VARCHAR(20));
Query OK, 0 rows affected (0.07 sec)
mysql> INSERT INTO CUSTOMER(Cust_id, C_name, City) VALUES(1, "Saranya", "Idukki"),
  (2, "Anjali", "Palakkad"), (3, "Gopika", "Kozhikode"), (4, "Parvathi", "Palakkad"),
  (5, "Renu", "Malappuram"), (6, "Sethu", "Pathanamthitta"), (7, "Aparna", "Kozhikode"),
  (8, "Anil", "Idukki"), (9, "Revathi", "Eranakulam"), (10, "Amala", "Eranakulam");
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
mysql> CREATE TABLE BRANCH(Branch_id INT PRIMARY KEY, B_name VARCHAR(25), City
VARCHAR(20));
Query OK, 0 rows affected (0.07 sec)
mysql> INSERT INTO BRANCH(Branch_id, B_name, City) VALUES(1, "Aroor", "Kochi"),
(2, "Vaikom", "Kottayam"), (4, "Kaloor", "Eranakulam"), (7, "Alappuzha", "Kuttanad"),
(6, "Cherthala", "Pallipuram"), (5, "Nedumkandam", "Idukki"),
(14, "Mundakkayam", "Kottayam"), (12, "Edappaly", "Kollam"), (8, "Kaladi", "Thrissur"),
(9, "Kattapana", "Idukki");
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
mysql> CREATE TABLE DEPOSIT(Acc_no VARCHAR(15), Cust_id INT, Amount INT, Branch_id
INT, Open_date DATE, FOREIGN KEY (Cust_id) REFERENCES CUSTOMER (Cust_id), FOREIGN
KEY (Branch_id) REFERENCES BRANCH (Branch_id));
Query OK, 0 rows affected (0.10 sec)
mysql> INSERT INTO DEPOSIT (Acc_no, Cust_id, Amount, Branch_id, Open_date)
     -> VALUES
           ('0732108020299', 1, 40500, 1,
                                                  '2018-01-21'),
           ('0732108020292', 5, 31000, 6,
                                                  '2009-07-12'),
           ('0732108020293', 4, 50000, 5,
                                                  '2010-03-23'),
           ('0732108020294', 2, 60000, 2, ('0732108020295', 9, 8000, 12,
                                                  '2005-08-20'),
                                                  '2000-05-25'),
     ->
           ('0732108020296', 7, 6300, 8,
                                                  '2007-06-26'),
     ->
           ('0732108020297', 10, 900, 14, ('0732108020298', 8, 56600, 9,
                                                  '2008-07-27'),
     ->
                                                  '2009-08-28'),
     ->
           ('0732108020291', 3, 10000, 4, '2010-09-29'),
('0732108020210', 6, 400, 7, '2011-10-30');
     ->
Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0
mysql> CREATE TABLE BORROW(Loan_no INT, Cust_id INT, Branch_id INT, Amount INT,
FOREIGN KEY (Cust_id) REFERENCES CUSTOMER (Cust_id), FOREIGN KEY (Branch_id)
REFERENCES BRANCH (Branch_id));
Query OK, 0 rows affected (0.10 sec)
mysql> INSERT INTO BORROW(Loan_no, Cust_id, Branch_id, Amount)
VALUES(109, 10, 14, 900), (205, 1, 1, 40500), (34, 5, 6, 31000), (22, 6, 7, 400), (12, 3, 4, 10000),
(2, 8, 9, 56600), (67, 7, 8, 6300), (5, 9, 12, 8000), (78, 2, 2, 60000), (44, 8, 9, 56600);
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

# mysql> SELECT \* FROM CUSTOMER;

+		++
Cust_id	C_name	City
1 1	Saranya	Idukki
2	Anjali	Palakkad
3	Gopika	Kozhikode
4	Parvathi	Palakkad
5	Renu	Malappuram
6	Sethu	Pathanamthitta
7	Aparna	Kozhikode
8	Anil	Idukki
9	Revathi	Eranakulam
10	Amala	Eranakulam
	_	L

10 rows in set (0.01 sec)

# mysql> SELECT \* FROM BRANCH;

+		++
Branch_id	B_name	City
1   2   4	Aroor   Vaikom   Kaloor	Kochi     Kottayam     Eranakulam
4   5   6	Natuul   Nedumkandam   Cherthala	Eranakutam     Idukki     Pallipuram
, 7 , 8	Alappuzha   Kaladi	Kuttanad     Thrissur
9 12 14	Kattapana   Edappaly   Mundakkayam	Idukki     Kollam     Kottayam
<u> </u>		

10 rows in set (0.01 sec)

## mysql> SELECT \* FROM DEPOSIT;

+	+	+	+	
Acc_no	Cust_id	Amount	Branch_id	Open_date
0732108020299	l 1	l 40500	l 1	2018-01-21
0732108020292	j <u> </u>	10000   31000	l 6	2009-07-12
0732108020293	4	50000	5	2010-03-23
0732108020294	2	60000	2	2005-08-20
0732108020295	9	8000	12	2000-05-25
0732108020296	7	6300	8	2007-06-26
0732108020297	10	900	14	2008-07-27
0732108020298	8	56600	9	2009-08-28
0732108020291	3	10000	4	2010-09-29
0732108020210	6	400	7	2011-10-30
++				
10 rows in set (6	0.00 sec)			

## mysql> SELECT \* FROM BORROW;

4		+	<b>-</b>	<b></b>
į	Loan_no	Cust_id	Branch_id	Amount
+	109 205 34 22 12 2 67	10   1   5   6   3   8   7	14   1   6   7   4   9   8	900     40500     31000     400     10000     56600     6300
¦	78	2	12	60000
į	44	8	9	56600
+		+	+	++

10 rows in set (0.00 sec)

## 1) List total loan

```
mysql> SELECT SUM(Amount) AS TotalLoan FROM BORROW;
+-----+
| TotalLoan |
+-----+
| 270300 |
+-----+
1 row in set (0.01 sec)
```

# 2) List total deposit

→ mysql> SELECT SUM(Amount) AS TotalDeposit FROM DEPOSIT;

# List maximum deposit of customers living in Ernakulam

mysql> SELECT MAX(Amount) AS MaxDeposit FROM DEPOSIT WHERE Cust\_id IN (SELECT Cust\_id FROM CUSTOMER WHERE City = 'Eranakulam');

```
+-----+

| MaxDeposit |

+-----+

| 8000 |

+-----+

1 row in set (0.01 sec)
```

### 4) Count total number of branch cities

◆ mysql> SELECT COUNT(DISTINCT City) AS TotalBranchCities FROM BRANCH;

### 5) List branch\_id and branch wise deposit

♠ mysql> SELECT Branch\_id, SUM(Amount) AS TotalDeposit FROM DEPOSIT GROUP BY Branch\_id;

+	++
Branch_id	TotalDeposit
+	<b>+</b>
1	40500
2	60000
4	10000
5	50000
6	31000
7	400
8	6300
9	56600
12	8000
14	900
+	++

# 10 rows in set (0.00 sec)

# 6) How many customers have opened deposit after '01-01-2016'

→ mysql> SELECT COUNT(DISTINCT Cust\_id) AS CustomersCount FROM DEPOSIT WHERE Open\_date > '2016-01-01';

```
+-----+
| CustomersCount |
+------+
| 1 |
+------+
1 row in set (0.00 sec)
```

# 7) List the branches having sum of deposit more than 4000

→ mysql> SELECT Branch\_id, SUM(Amount) AS TotalDeposit FROM DEPOSIT GROUP BY Branch\_id HAVING SUM(Amount) > 4000;

```
+-----+
| Branch_id | TotalDeposit |
+----+
               40500
       1 |
       2 |
              60000
       4 |
               10000 |
       5 |
                50000 |
       6 |
                31000 |
       8 |
                6300 |
       9 I
               56600 |
      12 |
              8000 l
```

8 rows in set (0.00 sec)

# 8) List the names of customers having minimum deposit

→ mysql> SELECT C\_name FROM CUSTOMER WHERE Cust\_id IN (SELECT Cust\_id FROM DEPOSIT GROUP BY Cust\_id HAVING MIN(Amount) = (SELECT MIN(Amount) FROM DEPOSIT));

```
+----+
| C_name |
+-----+
| Sethu |
+-----+
1 row in set (0.01 sec)
```

### Count the number of depositors living in 'Palakkad'

mysql> SELECT COUNT(DISTINCT Cust\_id) AS DepositorsCount FROM DEPOSIT WHERE Cust\_id IN (SELECT Cust\_id FROM CUSTOMER WHERE City = 'Palakkad');

# 10) Find the maximum deposit of the Idukki branch

mysql> SELECT MAX(Amount) AS MaxDeposit FROM DEPOSIT WHERE Branch\_id IN (SELECT Branch\_id FROM BRANCH WHERE City = 'Idukki');

```
+-----+
| MaxDeposit |
+-----+
| 56600 |
+-----+
1 row in set (0.00 sec)
```

#### 11) Find out number of customers living in Ernakulam

♠ mysql> SELECT COUNT(\*) AS CustomerCount FROM CUSTOMER WHERE City = 'Eranakulam';

```
+-----+
| CustomerCount |
+-----+
| 2 |
+-----+
1 row in set (0.00 sec)
```

#### *12*) Find out the customers who are not living in Ernakulam or Alappuzha

◆ mysql> SELECT \* FROM CUSTOMER WHERE City NOT IN ('Eranakulam', 'Alappuza');

1   Saranya   Idukki   2   Anjali   Palakkad   3   Gopika   Kozhikode   4   Parvathi   Palakkad   5   Renu   Malappuram   6   Sethu   Pathanamthitta   7   Aparna   Kozhikode   8   Anil   Idukki	Cust_id	C_name	City
	3     4     5     6     7	Anjali Gopika Parvathi Renu Sethu Aparna	Palakkad   Kozhikode   Palakkad   Malappuram   Pathanamthitta   Kozhikode

8 rows in set (0.00 sec)

#### List out Cust\_id and C\_name in descending order of their C\_name *13*)

♠ mysql> SELECT Cust\_id, C\_name FROM CUSTOMER ORDER BY C\_name DESC;

+	
Cust_id	C_name
+	++
6	Sethu
1	Saranya
9	Revathi
5	Renu
4	Parvathi
3	Gopika
7	Aparna
2	Anjali
8	Anil
10	Amala
+	+
10 roug in	00+ (0 00 0

10 rows in set (0.00 sec)

#### Display the number of depositors in branch wise 14)

mysql> SELECT Branch\_id, COUNT(DISTINCT Cust\_id) AS DepositorsCount FROM DEPOSIT GROUP BY Branch\_id;

+	+   DepositorsCount
1	1
j 2	j 1 j
4	1
5	1
6	1
7	1
8	1
9	1
12	1
14	1
+	++

10 rows in set (0.00 sec)

#### *15*) Find out the branch which has not borrowers

mysql> SELECT \* FROM BRANCH WHERE Branch\_id NOT IN (SELECT DISTINCT Branch\_id FROM BORROW);

```
+----+
| Branch_id | B_name
            | City |
+----+
    5 | Nedumkandam | Idukki |
+----+
```

1 row in set (0.00 sec)