# MYSQL Assignment No:3

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

```
mysql> CREATE DATABASE Adarsh;
Query OK, 1 row affected (0.02 sec)
mysql> USE Adarsh;
Database changed
mysql> CREATE TABLE CUSTOMER(Cust_id INT PRIMARY KEY, C_name VARCHAR(15), City
VARCHAR(20));
Query OK, 0 rows affected (0.06 sec)
mysql> INSERT INTO CUSTOMER(Cust_id, C_name, City) VALUES(1, "Adarsh", "Kozhikode"),
(2, "Abhishek", "Truvandrum"), (3, "Akshay", "Palakkad"), (4, "Sooraj", "Truvandrum"), (5, "Sanjay", "Malappuram"), (6, "Fazil", "Kozhikode"), (7, "Arjun", "Kozhikode"), (8, "Anil", "Idukki"), (9, "Ragesh", "Eranakulam"), (10, "Reno", "Eranakulam");
Query OK, 10 rows affected (0.01 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, "Alappuza", "Kochi"),
(2, "Punjab National Bank", "Punjab"), (4, "Bank of Baroda", "Bangal"), (7, "Canara Bank", "Kadalundi"), (6, "Union Bank of India", "Odisha"), (5, "Bank of
India", "Karnadaka"), (14, "Aroor", "Vaikom"), (12, "Cherthala", "Pallipuram"), (8, "UCO
Bank", "Kollam"), (9, "Indian Bank", "Kerala");
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, '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');
     ->
     ->
     ->
       Query OK, 10 rows affected (0.02 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	Adarsh Abhishek Akshay Sooraj Sanjay Fazil Arjun Anil Ragesh Reno	Kozhikode     Truvandrum     Palakkad     Truvandrum     Malappuram     Kozhikode     Kozhikode     Idukki     Eranakulam
+	+	++

10 rows in set (0.00 sec)

## mysql> SELECT \* FROM BRANCH;

Branch_id   B_name	+	+	++
2   Punjab National Bank   Punjab   4   Bank of Baroda   Bangal   5   Bank of India   Karnadaka   6   Union Bank of India   Odisha   7   Canara Bank   Kadalundi   8   UCO Bank   Kollam   9   Indian Bank   Kerala	Branch_id	B_name	City
14   Aroor   Vaikom	4   5   6   7   8   9	Punjab National Bank Bank of Baroda Bank of India Union Bank of India Canara Bank UCO Bank Indian Bank Cherthala	Punjab     Bangal     Karnadaka     Odisha     Kadalundi     Kollam     Kerala     Pallipuram

10 rows in set (0.00 sec)

## mysql> SELECT \* FROM DEPOSIT;

+	   Cust_id	+   Amount	+   Branch_id	++   Open_date
+	+	+	+	++
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	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;

+	+		+
Loan_no	Cust_id	Branch_id	Amount
109   205   34   22   12   2   67   5   78	10     1     5     6     3     7     9     2	14 1 6 7 4 9 8 12 2	900   40500   31000   400   10000   56600   6300   8000   60000
+	+ +	, 	+ +

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;

## 3) 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;

+			+			. 4
B	ranch	1_i	-   t	ΓotalDe	eposit	
			L		40500	İ
i		2	2 j		60000	i
i		4	4 j		10000	i
İ		Ę	5 j		50000	İ
į		6	3 j		31000	İ
İ		7	7		400	Ì
ĺ		8	3		6300	ĺ
		Ć	9		56600	
		12	2		8000	
		14	1		900	
+			+-			- +
10	rows	in	set	(0.01	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 (0.01 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 |
+----+
| Fazil |
1 row in set (0.01 sec)
```

### 9) Count the number of depositors living in 'Kozhikode'

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

```
+----+
| DepositorsCount |
```

1 row in set (0.00 sec)

### *10)* Find the maximum deposit of the Kerala branch

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

```
+----+
| 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 |
+----+
+----+
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');

+   Cust_id	+   C_name +	++   City
1   2   3   4   5   6   7   8	Adarsh Abhishek Akshay Sooraj Sanjay Fazil Arjun Anil	Kozhikode     Truvandrum     Palakkad     Truvandrum     Malappuram     Kozhikode     Kozhikode     Idukki

8 rows in set (0.00 sec)

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

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

++	+
Cust_id	C_name
++	+
4	Sooraj
5	Sanjay
10	Reno
9	Ragesh
6	Fazil
7	Arjun
8	Anil
j 3 j	Akshay
1	Adarsh
j 2 j	Abhishek
++	·+

10 rows in set (0.00 sec)

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

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

+	++
Branch_id	DepositorsCount
1	l 1
2	
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);