MYSQL Assignment No:2

1) *Insert minimum 10 rows on each table and display that data*

- mysql> CREATE DATABASE Adarsh;
  Query OK, 1 row affected (0.01 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 (0.07 sec)

- mysql> DESCRIBE CUSTOMER;

```
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| Cust_id | int         | NO   | PRI | NULL    |       |
| C_name  | varchar(15) | YES  |     | NULL    |       |
| City    | varchar(20) | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.01 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 (0.04 sec)
  Records: 10 Duplicates: 0 Warnings: 0

- mysql> SELECT * FROM CUSTOMER;

```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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 |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

- mysql> CREATE TABLE BRANCH(Branch_id INT PRIMARY KEY,B_name VARCHAR(25),City VARCHAR(20));
  Query OK, 0 rows affected (0.06 sec)

- mysql> DESCRIBE BRANCH;

```
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Branch_id | int         | NO   | PRI | NULL    |       |
| B_name    | varchar(25) | YES  |     | NULL    |       |
| City      | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
3 rows in set (0.01 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 (0.01 sec)
    Records: 10  Duplicates: 0  Warnings: 0
```

- mysql> SELECT * FROM BRANCH;

```
+-----------+---------------------+------------+
| Branch_id | B_name              | City       |
+-----------+---------------------+------------+
|         1 | Alappuza            | Kochi      |
|         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     |
|        12 | Cherthala           | Pallipuram |
|        14 | Aroor               | Vaikom     |
+-----------+---------------------+------------+
10 rows in set (0.00 sec)
```

- 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 (0.11 sec)

- mysql> DESCRIBE DEPOSIT;

```
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Acc_no    | varchar(15) | YES  |     | NULL    |       |
| Cust_id   | int         | YES  | MUL | NULL    |       |
| Amount    | int         | YES  |     | NULL    |       |
| Branch_id | int         | YES  | MUL | NULL    |       |
| Open_date | date        | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.01 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 (0.01 sec)
  Records: 10 Duplicates: 0 Warnings: 0

- mysql> SELECT * FROM DEPOSIT;

```
+---------------+---------+--------+-----------+------------+
| Acc_no        | 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 (0.01 sec)
```

- 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> DESCRIBE BORROW;

Field	Type	Null	Key	Default	Extra
Loan_no	int	YES		NULL	
Cust_id	int	YES	MUL	NULL	
Branch_id	int	YES	MUL	NULL	
Amount	int	YES		NULL	

4 rows in set (0.00 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 (0.01 sec)
  Records: 10 Duplicates: 0 Warnings: 0

- mysql> SELECT * FROM BORROW;

Loan_no	Cust_id	Branch_id	Amount
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

10 rows in set (0.01 sec)

2)   List Cust_id along with customer name

- mysql> SELECT * FROM CUSTOMER;

Cust_id	C_name	City
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

10 rows in set (0.00 sec)

```
◆ mysql> SELECT Cust_id, C_name FROM CUSTOMER;
  +---------+----------+
  | Cust_id | C_name   |
  +---------+----------+
  |       1 | Adarsh   |
  |       2 | Abhishek |
  |       3 | Akshay   |
  |       4 | Sooraj   |
  |       5 | Sanjay   |
  |       6 | Fazil    |
  |       7 | Arjun    |
  |       8 | Anil     |
  |       9 | Ragesh   |
  |      10 | Reno     |
  +---------+----------+
  10 rows in set (0.00 sec)
```

3) *List Cust_id of customers having amount greater than 10000*

```
• mysql> SELECT * FROM DEPOSIT;
  +---------------+---------+--------+-----------+------------+
  | Acc_no        | 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 (0.01 sec)

◆ mysql> SELECT Cust_id FROM DEPOSIT WHERE Amount > 10000;
  +---------+
  | Cust_id |
  +---------+
  |       1 |
  |       5 |
  |       4 |
  |       2 |
  |       8 |
  +---------+
  5 rows in set (0.00 sec)
```

4) *List account date of customer 'Anil'*

```
• mysql> SELECT * FROM CUSTOMER;
  +---------+----------+------------+
  | Cust_id | C_name   | City       |
  +---------+----------+------------+
  |       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 |
  +---------+----------+------------+
  10 rows in set (0.00 sec)
```

- ```
  mysql> SELECT * FROM DEPOSIT;
  +---------------+---------+--------+-----------+------------+
  | Acc_no        | 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 (0.00 sec)
  ```

- ```
  mysql> SELECT Open_date FROM DEPOSIT WHERE Cust_id = (SELECT Cust_id FROM CUSTOMER
  WHERE C_name = 'Anil');
  +------------+
  | Open_date  |
  +------------+
  | 2009-08-28 |
  +------------+
  1 row in set (0.00 sec)
  ```

5) *List Cust_id of customers who have opened account after 01/01/2016*

- ```
  mysql> SELECT * FROM DEPOSIT;
  +---------------+---------+--------+-----------+------------+
  | Acc_no        | 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 (0.00 sec)
  ```

- ```
  mysql> SELECT Cust_id FROM DEPOSIT WHERE Open_date > '2016-01-01';
  +---------+
  | Cust_id |
  +---------+
  |       1 |
  +---------+
  1 row in set (0.00 sec)
  ```

6) List account no. and Cust_id of customers having amount between 40,000 and 80,000

- mysql> SELECT * FROM DEPOSIT;

```
+--------------+---------+--------+-----------+------------+
| Acc_no       | 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 (0.00 sec)
```

- ◆ mysql> SELECT Acc_no, Cust_id FROM DEPOSIT WHERE Amount BETWEEN 40000 AND 80000;

```
+--------------+---------+
| Acc_no       | Cust_id |
+--------------+---------+
| 0732108020299 |       1 |
| 0732108020293 |       4 |
| 0732108020294 |       2 |
| 0732108020298 |       8 |
+--------------+---------+
4 rows in set (0.00 sec)
```

7) List customer name starting with 'S'

- mysql> SELECT * FROM CUSTOMER;

```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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 |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

- ◆ mysql> SELECT C_name FROM CUSTOMER WHERE C_name LIKE 'S%';

```
+--------+
| C_name |
+--------+
| Sooraj |
| Sanjay |
+--------+
2 rows in set (0.00 sec)
```

8) List customer from depositor starting with '_a%'

- ◆ mysql>SELECT C_name FROM CUSTOMER WHERE Cust_id IN (SELECT Cust_id FROM DEPOSIT WHERE Cust_id LIKE '_a%');
  Empty set (0.01 sec)

9) List customer name, account no and amount from deposit having exactly 5 characters in name

- mysql> SELECT * FROM CUSTOMER;

```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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 |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

- mysql> SELECT * FROM DEPOSIT;

```
+---------------+---------+--------+-----------+------------+
| Acc_no        | 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 (0.00 sec)
```

- ◆ mysql> SELECT C_name, Acc_no, Amount FROM CUSTOMER JOIN DEPOSIT ON CUSTOMER.Cust_id = DEPOSIT.Cust_id WHERE LENGTH(C_name) = 5;

```
+--------+---------------+--------+
| C_name | Acc_no        | Amount |
+--------+---------------+--------+
| Fazil  | 0732108020210 |    400 |
| Arjun  | 0732108020296 |   6300 |
+--------+---------------+--------+
2 rows in set (0.00 sec)
```

10) List Cust_id, Loan no and Loan amount of borrowers

- mysql> SELECT * FROM BORROW;

```
+---------+---------+-----------+--------+
| Loan_no | Cust_id | Branch_id | Amount |
+---------+---------+-----------+--------+
|     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 |
+---------+---------+-----------+--------+
10 rows in set (0.00 sec)
```

◆ mysql> SELECT Cust_id, Loan_no, Amount FROM BORROW;
```
+---------+---------+--------+
| Cust_id | Loan_no | Amount |
+---------+---------+--------+
|      10 |     109 |    900 |
|       1 |     205 |  40500 |
|       5 |      34 |  31000 |
|       6 |      22 |    400 |
|       3 |      12 |  10000 |
|       8 |       2 |  56600 |
|       7 |      67 |   6300 |
|       9 |       5 |   8000 |
|       2 |      78 |  60000 |
|       8 |      44 |  56600 |
+---------+---------+--------+
10 rows in set (0.00 sec)
```

11)   *List cust_id and C_name of depositors*

- mysql> SELECT * FROM DEPOSIT;
```
+---------------+---------+--------+-----------+------------+
| Acc_no        | 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 (0.00 sec)
```

- mysql> SELECT * FROM CUSTOMER;
```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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 |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

◆ mysql> SELECT CUSTOMER.Cust_id, C_name FROM CUSTOMER INNER JOIN DEPOSIT ON
CUSTOMER.Cust_id = DEPOSIT.Cust_id;
```
+---------+----------+
| Cust_id | C_name   |
+---------+----------+
|       1 | Adarsh   |
|       2 | Abhishek |
|       3 | Akshay   |
|       4 | Sooraj   |
|       5 | Sanjay   |
|       6 | Fazil    |
|       7 | Arjun    |
|       8 | Anil     |
|       9 | Ragesh   |
|      10 | Reno     |
+---------+----------+
```

```
10 rows in set (0.00 sec)
```

12) *List all the customers who are depositors but not borrowers*

- mysql> SELECT * FROM BORROW;

```
+---------+---------+-----------+--------+
| Loan_no | Cust_id | Branch_id | Amount |
+---------+---------+-----------+--------+
|     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 |
+---------+---------+-----------+--------+
10 rows in set (0.00 sec)
```

- mysql> SELECT * FROM DEPOSIT;

```
+---------------+---------+--------+-----------+------------+
| Acc_no        | 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 (0.00 sec)
```

- mysql> SELECT * FROM CUSTOMER;

```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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 |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

- ◆ mysql> SELECT C_name FROM CUSTOMER WHERE Cust_id IN (SELECT Cust_id FROM DEPOSIT) AND Cust_id NOT IN (SELECT Cust_id FROM BORROW);

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

13) *List all the customers who are both depositors and borrowers*

- mysql> SELECT * FROM BORROW;

```
+---------+---------+-----------+--------+
| Loan_no | Cust_id | Branch_id | Amount |
+---------+---------+-----------+--------+
|     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 |
+---------+---------+-----------+--------+
10 rows in set (0.00 sec)
```

- mysql> SELECT * FROM DEPOSIT;

```
+---------------+---------+--------+-----------+------------+
| Acc_no        | 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 (0.00 sec)
```

- mysql> SELECT * FROM CUSTOMER;

```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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 |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

- ◆ mysql> SELECT C_name FROM CUSTOMER WHERE Cust_id IN (SELECT Cust_id FROM DEPOSIT) AND Cust_id IN (SELECT Cust_id FROM BORROW);

```
+----------+
| C_name   |
+----------+
| Adarsh   |
| Abhishek |
| Akshay   |
| Sanjay   |
| Fazil    |
| Arjun    |
| Anil     |
| Ragesh   |
| Reno     |
+----------+
```

```
9 rows in set (0.00 sec)
```

14) List all the customers along with their amount who are either borrowers

- mysql> SELECT * FROM BORROW;

```
+---------+---------+-----------+--------+
| Loan_no | Cust_id | Branch_id | Amount |
+---------+---------+-----------+--------+
|     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 |
+---------+---------+-----------+--------+
10 rows in set (0.00 sec)
```

- mysql> SELECT * FROM CUSTOMER;

```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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 |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

- ◆ mysql> SELECT C_name, Amount FROM CUSTOMER JOIN BORROW ON CUSTOMER.Cust_id = BORROW.Cust_id;

```
+----------+--------+
| C_name   | Amount |
+----------+--------+
| Adarsh   |  40500 |
| Abhishek |  60000 |
| Akshay   |  10000 |
| Sanjay   |  31000 |
| Fazil    |    400 |
| Arjun    |   6300 |
| Anil     |  56600 |
| Anil     |  56600 |
| Ragesh   |   8000 |
| Reno     |    900 |
+----------+--------+
10 rows in set (0.00 sec)
```

15) List the cites of depositor having branch 'Cherthala'

- mysql> SELECT * FROM BRANCH;

```
+-----------+----------------------+------------+
| Branch_id | B_name               | City       |
+-----------+----------------------+------------+
|         1 | Alappuza             | Kochi      |
|         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     |
|        12 | Cherthala            | Pallipuram |
|        14 | Aroor                | Vaikom     |
+-----------+----------------------+------------+
10 rows in set (0.00 sec)
```

- mysql> SELECT * FROM DEPOSIT;

```
+---------------+---------+--------+-----------+------------+
| Acc_no        | 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 (0.00 sec)
```

- mysql> SELECT * FROM CUSTOMER;

```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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 |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

```
mysql> SELECT City FROM CUSTOMER JOIN DEPOSIT ON CUSTOMER.Cust_id = DEPOSIT.Cust_id
WHERE Branch_id = (SELECT Branch_id FROM BRANCH WHERE B_name = 'Cherthala');
+------------+
| City       |
+------------+
| Eranakulam |
+------------+
1 row in set (0.00 sec)
```

16)   Update 10% interest to all depositors

◆
```
mysql> UPDATE DEPOSIT SET Amount = Amount * 1.1;
Query OK, 10 rows affected (0.02 sec)
Rows matched: 10  Changed: 10  Warnings: 0
```

●
```
mysql> SELECT * FROM DEPOSIT;
+---------------+---------+--------+-----------+------------+
| Acc_no        | Cust_id | Amount | Branch_id | Open_date  |
+---------------+---------+--------+-----------+------------+
| 0732108020299 |       1 | 44550  |         1 | 2018-01-21 |
| 0732108020292 |       5 | 34100  |         6 | 2009-07-12 |
| 0732108020293 |       4 | 55000  |         5 | 2010-03-23 |
| 0732108020294 |       2 | 66000  |         2 | 2005-08-20 |
| 0732108020295 |       9 |  8800  |        12 | 2000-05-25 |
| 0732108020296 |       7 |  6930  |         8 | 2007-06-26 |
| 0732108020297 |      10 |   990  |        14 | 2008-07-27 |
| 0732108020298 |       8 | 62260  |         9 | 2009-08-28 |
| 0732108020291 |       3 | 11000  |         4 | 2010-09-29 |
| 0732108020210 |       6 |   440  |         7 | 2011-10-30 |
+---------------+---------+--------+-----------+------------+
10 rows in set (0.00 sec)
```

17)   Update 10% to all depositors living in 'Ernakulam'

◆
```
mysql> UPDATE DEPOSIT SET Amount = Amount * 1.1 WHERE Cust_id IN (SELECT Cust_id
FROM CUSTOMER WHERE City = 'Ernakulam');
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0
```

●
```
mysql> SELECT * FROM DEPOSIT;
+---------------+---------+--------+-----------+------------+
| Acc_no        | Cust_id | Amount | Branch_id | Open_date  |
+---------------+---------+--------+-----------+------------+
| 0732108020299 |       1 | 44550  |         1 | 2018-01-21 |
| 0732108020292 |       5 | 34100  |         6 | 2009-07-12 |
| 0732108020293 |       4 | 55000  |         5 | 2010-03-23 |
| 0732108020294 |       2 | 66000  |         2 | 2005-08-20 |
| 0732108020295 |       9 |  8800  |        12 | 2000-05-25 |
| 0732108020296 |       7 |  6930  |         8 | 2007-06-26 |
| 0732108020297 |      10 |   990  |        14 | 2008-07-27 |
| 0732108020298 |       8 | 62260  |         9 | 2009-08-28 |
| 0732108020291 |       3 | 11000  |         4 | 2010-09-29 |
| 0732108020210 |       6 |   440  |         7 | 2011-10-30 |
+---------------+---------+--------+-----------+------------+
10 rows in set (0.00 sec)
```

18)   *Change living city of the 'Aroor' branch borrowers to Aroor*

- mysql> SELECT * FROM BRANCH;

```
+-----------+----------------------+------------+
| Branch_id | B_name               | City       |
+-----------+----------------------+------------+
|         1 | Alappuza             | Kochi      |
|         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     |
|        12 | Cherthala            | Pallipuram |
|        14 | Aroor                | Vaikom     |
+-----------+----------------------+------------+
10 rows in set (0.00 sec)
```

- mysql> SELECT * FROM BORROW;

```
+---------+---------+-----------+--------+
| Loan_no | Cust_id | Branch_id | Amount |
+---------+---------+-----------+--------+
|     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 |
+---------+---------+-----------+--------+
10 rows in set (0.00 sec)
```

- ◆ mysql> UPDATE CUSTOMER SET City = 'Aroor' WHERE Cust_id IN (SELECT Cust_id FROM
  BORROW WHERE Branch_id = (SELECT Branch_id FROM BRANCH WHERE B_name = 'Aroor'));
  Query OK, 1 row affected (0.01 sec)
  Rows matched: 1   Changed: 1   Warnings: 0

- mysql> SELECT * FROM CUSTOMER;

```
+---------+----------+------------+
| Cust_id | C_name   | City       |
+---------+----------+------------+
|       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     | Aroor      |
+---------+----------+------------+
10 rows in set (0.00 sec)
```

19) *Delete branches having deposit from Kollam*

◆ mysql> DELETE FROM BORROW WHERE Branch_id IN (SELECT Branch_id FROM BRANCH WHERE City = 'Kollam');
Query OK, 1 row affected (0.01 sec)

● mysql> SELECT * FROM BORROW;
```
+---------+---------+-----------+--------+
| Loan_no | Cust_id | Branch_id | Amount |
+---------+---------+-----------+--------+
|     109 |      10 |        14 |    900 |
|     205 |       1 |         1 |  40500 |
|      34 |       5 |         6 |  31000 |
|      22 |       6 |         7 |    400 |
|      12 |       3 |         4 |  10000 |
|       2 |       8 |         9 |  56600 |
|       5 |       9 |        12 |   8000 |
|      78 |       2 |         2 |  60000 |
|      44 |       8 |         9 |  56600 |
+---------+---------+-----------+--------+
9 rows in set (0.01 sec)
```

◆ mysql> DELETE FROM DEPOSIT WHERE Branch_id IN (SELECT Branch_id FROM BRANCH WHERE City = 'Kollam');
Query OK, 1 row affected (0.01 sec)

● mysql> SELECT * FROM DEPOSIT;
```
+---------------+---------+--------+-----------+------------+
| Acc_no        | Cust_id | Amount | Branch_id | Open_date  |
+---------------+---------+--------+-----------+------------+
| 0732108020299 |       1 |  44550 |         1 | 2018-01-21 |
| 0732108020292 |       5 |  34100 |         6 | 2009-07-12 |
| 0732108020293 |       4 |  55000 |         5 | 2010-03-23 |
| 0732108020294 |       2 |  66000 |         2 | 2005-08-20 |
| 0732108020295 |       9 |   8800 |        12 | 2000-05-25 |
| 0732108020297 |      10 |    990 |        14 | 2008-07-27 |
| 0732108020298 |       8 |  62260 |         9 | 2009-08-28 |
| 0732108020291 |       3 |  11000 |         4 | 2010-09-29 |
| 0732108020210 |       6 |    440 |         7 | 2011-10-30 |
+---------------+---------+--------+-----------+------------+
9 rows in set (0.00 sec)
```

◆ mysql> DELETE FROM BRANCH WHERE City = 'Kollam';
Query OK, 1 row affected (0.01 sec)

● mysql> SELECT * FROM BRANCH;
```
+-----------+----------------------+-----------+
| Branch_id | B_name               | City      |
+-----------+----------------------+-----------+
|         1 | Alappuza             | Kochi     |
|         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 |
|         9 | Indian Bank          | Kerala    |
|        12 | Cherthala            | Pallipuram|
|        14 | Aroor                | Vaikom    |
+-----------+----------------------+-----------+
9 rows in set (0.00 sec)
```

20) Delete depositors of branches having number of customers between 1 and 3

◆ mysql> DELETE FROM DEPOSIT WHERE Branch_id IN (SELECT Branch_id FROM BRANCH WHERE
  Branch_id IN (SELECT Branch_id FROM CUSTOMER GROUP BY Branch_id HAVING
  COUNT(Cust_id) BETWEEN 1 AND 3));
  Query OK, 0 rows affected (0.01 sec)

• mysql> SELECT * FROM DEPOSIT;

```
+---------------+---------+--------+-----------+------------+
| Acc_no        | Cust_id | Amount | Branch_id | Open_date  |
+---------------+---------+--------+-----------+------------+
| 0732108020299 |       1 |  44550 |         1 | 2018-01-21 |
| 0732108020292 |       5 |  34100 |         6 | 2009-07-12 |
| 0732108020293 |       4 |  55000 |         5 | 2010-03-23 |
| 0732108020294 |       2 |  66000 |         2 | 2005-08-20 |
| 0732108020295 |       9 |   8800 |        12 | 2000-05-25 |
| 0732108020297 |      10 |    990 |        14 | 2008-07-27 |
| 0732108020298 |       8 |  62260 |         9 | 2009-08-28 |
| 0732108020291 |       3 |  11000 |         4 | 2010-09-29 |
| 0732108020210 |       6 |    440 |         7 | 2011-10-30 |
+---------------+---------+--------+-----------+------------+
```
9 rows in set (0.00 sec)

21) Delete depositors having deposit less than Rs500

◆ mysql> DELETE FROM DEPOSIT WHERE Amount < 500;
  Query OK, 1 row affected (0.02 sec)

• mysql> SELECT * FROM DEPOSIT;

```
+---------------+---------+--------+-----------+------------+
| Acc_no        | Cust_id | Amount | Branch_id | Open_date  |
+---------------+---------+--------+-----------+------------+
| 0732108020299 |       1 |  44550 |         1 | 2018-01-21 |
| 0732108020292 |       5 |  34100 |         6 | 2009-07-12 |
| 0732108020293 |       4 |  55000 |         5 | 2010-03-23 |
| 0732108020294 |       2 |  66000 |         2 | 2005-08-20 |
| 0732108020295 |       9 |   8800 |        12 | 2000-05-25 |
| 0732108020297 |      10 |    990 |        14 | 2008-07-27 |
| 0732108020298 |       8 |  62260 |         9 | 2009-08-28 |
| 0732108020291 |       3 |  11000 |         4 | 2010-09-29 |
+---------------+---------+--------+-----------+------------+
```
8 rows in set (0.00 sec)