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Class: TE - A Batch: A3 Roll No: 23152 Subject: SL-I (A)

## Lab Assignment 2

## **Problem Statement:**

1. Create following Tables cust\_mstr(cust\_no,fname,lname) add dets(code no,add1,add2,state,city,pincode)

```
mysql> CREATE DATABASE bank_demo;
Query OK, 1 row affected (0.01 sec)
mysql> USE bank_demo;
Database changed
mysql> CREATE TABLE cust_mstr (
        cust_no INT PRIMARY KEY,
        fname VARCHAR(50),
   ->
        lname VARCHAR(50)
   ->
   -> );
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE TABLE add_dets (
   ->
        code_no INT,
        add1 VARCHAR(100),
   ->
        add2 VARCHAR(100),
   ->
        state VARCHAR(50),
   ->
   ->
        city VARCHAR(50),
        pincode VARCHAR(10),
   ->
       FOREIGN KEY (code_no) REFERENCES cust_mstr(cust_no)
   ->
   -> );
Query OK, 0 rows affected (0.06 sec)
mysql> INSERT INTO cust_mstr VALUES (1,'sudhir','singh');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO cust_mstr VALUES (2,'rahul','singh');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO add_dets VALUES (1,'Street1','Lane1','MH','Pune','411044');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO add_dets VALUES (2,'Street2','Lane2','MH','Nigdi','411045');
Query OK, 1 row affected (0.01 sec)
mysql> select * from cust_mstr;
  cust_no
               fname
                           lname
               sudhir
                           singh
                           singh
          2
               rahul
2 rows in set (0.00 sec)
mysql> select * from add_dets;
                            add2
 code_no
               add1
                                      state
                                                city
                                                           pincode
               Street1
                                      мн
                                                           411044
                            Lane1
                                                Pune
                                                Nigdi
                                                           411045
          2
               Street2
                            Lane2
                                      MΗ
  rows in set (0.00 sec)
```

Retrieve the address of customer Fname as 'sudhir' and Lname as 'singh'

2. Create following Tables cust\_mstr(custno,fname,lname) acc\_fd\_cust\_dets(codeno,acc\_fd\_no) fd\_dets(fd\_sr\_no,amt)

```
mysql> CREATE TABLE acc_fd_cust_dets (
         code_no INT,
         acc_fd_no INT,
         PRIMARY KEY(code_no,acc_fd_no)
    -> );
Query OK, 0 rows affected (0.04 sec)
mysql> CREATE TABLE fd_dets (
         fd_sr_no INT PRIMARY KEY,
    ->
         amt DECIMAL(10,2)
    -> );
Query OK, 0 rows affected (0.03 sec)
mysql> INSERT INTO acc_fd_cust_dets VALUES (1,101);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO acc_fd_cust_dets VALUES (2,102);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO fd_dets VALUES (101,7000);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO fd_dets VALUES (102,4000);
Query OK, 1 row affected (0.01 sec)
mysql> select * from acc_fd_cust_dets;
code_no acc_fd_no
                  101
        1
        2
                  102
2 rows in set (0.00 sec)
mysql> select * from fd_dets;
 fd_sr_no | amt
             7000.00
       101
       102
             4000.00
```

List the customer holding fixed deposit of amount more than 5000

3. Create following Tables emp\_mstr(e\_mpno,f\_name,l\_name,m\_name,dept,desg,branch\_no) branch\_mstr(name,b\_no)

```
mysql> CREATE TABLE emp_mstr (
         emp_no INT PRIMARY KEY,
    ->
         f_name VARCHAR(50)
    ->
       l_name VARCHAR(50),
         m_name VARCHAR(50),
         dept VARCHAR(50),
    ->
         desg VARCHAR(50),
    ->
   ->
         branch_no INT
   -> );
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE TABLE branch_mstr (
        b_no INT PRIMARY KEY,
   ->
         name VARCHAR(50)
   -> );
Query OK, 0 rows affected (0.03 sec)
mysql> INSERT INTO branch_mstr VALUES (11,'Akurdi');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO branch_mstr VALUES (12,'Nigdi');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO emp_mstr VALUES (1001, 'Ravi', 'Patil', 'A', 'IT', 'Manager', 11);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO emp_mstr VALUES (1002, 'Sarthak', 'Joshi', 'B', 'HR', 'Executive', 12);
Query OK, 1 row affected (0.01 sec)
mysql> select * from emp_mstr;
                              m_name
           f_name
                                        dept
                                                            branch_no
 emp_no
                     l name
                                               desa
    1001
           Ravi
                     Patil
                               Α
                                        ΙT
                                                Manager
                                                                   11
           Sarthak
    1002
                               В
                                        HR
                                               Executive
                                                                   12
                     Joshi
 rows in set (0.00 sec)
```

List the employee details along with branch names to which they belong

```
mysql> select * from branch_mstr;
+----+
| b_no | name |
+----+
| 11 | Akurdi |
| 12 | Nigdi |
+----+
2 rows in set (0.00 sec)
```

4. Create following Tables emp\_mstr(emp\_no,f\_name,l\_name,m\_name,dept) cntc\_dets(code\_no,cntc\_type,cntc\_data)

```
mysql> CREATE TABLE cntc_dets (
         code_no INT,
         cntc_type VARCHAR(50),
         cntc_data VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT INTO cntc_dets VALUES (1001.'Mobile'.'9999999999');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO cntc_dets VALUES (1002, 'Email', 'abc@gmail.com');
Query OK, 1 row affected (0.01 sec)
mysql> select * from cntc_dets;
 code_no | cntc_type | cntc_data
                        999999999
     1001
            Mobile
     1002
            Email
                        abc@gmail.com
2 rows in set (0.00 sec)
```

List the employee details along with contact details using left outer join & right join

```
mysql> -- List the employee details along with contact details using left outer join & right join
mysql> SELECT e.*,c.cntc_type,c.cntc_data
    -> FROM emp_mstr e
    -> LEFT JOIN cntc_dets c ON e.emp_no=c.code_no;
 emp_no | f_name
                    l_name
                            | m_name | dept |
                                               desg
                                                           branch_no
                                                                       cntc_type
                                                                                    cntc_data
    1001
                     Patil
                                                                                    999999999
           Ravi
                                       ΙT
                                               Manager
                                                                  11
                                                                        Mobile
                              В
    1002
           Sarthak
                     Joshi
                                       HR
                                               Executive
                                                                   12
                                                                        Email
                                                                                    abc@gmail.com
2 rows in set (0.00 sec)
```

5. Create following Tables cust\_mstr(cust\_no,fname,lname) add\_dets(code\_no,pincode)

List the customer who do not have bank branches in their vicinity.

```
mysql> -- List the customer who do not have bank branches in their vicinity.
mysql> SELECT c.cust_no,c.fname,c.lname
    -> FROM cust_mstr c
    -> JOIN add_dets a ON c.cust_no=a.code_no
    -> WHERE a.pincode NOT IN (SELECT pincode FROM branch);
+-----+----+
| cust_no | fname | lname |
+------+-----+
| 2 | rahul | singh |
+-----+-----+
1 row in set (0.01 sec)
```

Borrower table and depositor table created:

```
mysql> CREATE TABLE borrower (
         cust_name VARCHAR(50),
         loan_no INT
    -> ):
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT INTO borrower VALUES ('Mayuri',201);
Query OK, 1 row affected (0.01 sec)
mysql> select * from borrower;
              loan_no
 cust_name
                  201
 Mayuri
1 row in set (0.00 sec)
mysql> CREATE TABLE depositor (
         cust_name VARCHAR(50),
         acc_no INT
    -> );
Query OK, 0 rows affected (0.03 sec)
```

- 6. a) Create View on borrower table by selecting any two columns and perform insert update delete Operations
- b) Create view on borrower and depositor table by selecting any one column from each table perform insert update delete operations
- c) create updateable view on borrower table by selecting any two columns and perform insert update delete operations.

```
mysql> CREATE VIEW borrower_view AS
-> SELECT cust_name,loan_no FROM borrower;
Query OK, 0 rows affected (0.01 sec)
mysql> select * from borrower_view;
 cust_name | loan_no |
  Mayuri
                     201
1 row in set (0.01 sec)
mysql> INSERT INTO borrower_view VALUES ('Sudhir',202);
Query OK, 1 row affected (0.01 sec)
mysql> UPDATE borrower_view SET loan_no=203 WHERE cust_name='Sudhir';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> DELETE FROM borrower_view WHERE cust_name='Mayuri';
Query OK, 1 row affected (0.01 sec)
mysql> select *from borrower_view;
  cust_name | loan_no |
  Sudhir
                     203
1 row in set (0.00 sec)
mysql> -- View joining borrower & depositor mysql> CREATE VIEW borrow_deposit_view AS
-> SELECT b.cust_name,d.acc_no FROM borrower b JOIN depositor d ON b.cust_name=d.cust_name; Query OK, 0 rows affected (0.01 sec)
mysql> select *from borrow_deposit_view;
Empty set (0.00 sec)
mysql> select * from borrow_deposit_view;
Empty set (0.00 sec)
```