✚ Joins Query – 1

- Create following Tables: cust_mstr(cust_no,fname,lname)
  add_dets(code_no,add1,add2,state,city,pincode). Retrieve the address of customer
  Fname as 'xyz'; and Lname as 'pqr'.

```
mysql> USE customer;
Database changed
mysql> CREATE TABLE cust_mstr (
    ->      cust_no INT PRIMARY KEY,
    ->      fname VARCHAR(50),
    ->      lname VARCHAR(50)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> CREATE TABLE add_dets (
    ->      code_no INT PRIMARY KEY,
    ->      add1 VARCHAR(100),
    ->      add2 VARCHAR(100),
    ->      state VARCHAR(50),
    ->      city VARCHAR(50),
    ->      pincode VARCHAR(10)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO cust_mstr (cust_no, fname, lname)
    -> VALUES
    ->      (1, 'John', 'Doe'),
    ->      (2, 'Alice', 'Smith'),
    ->      (3, 'Bob', 'Johnson');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO add_dets (code_no, add1, add2, state, city, pincode)
    -> VALUES
    ->      (1, '123 Main St', 'Apt 101', 'California', 'Los Angeles', '90001'),
    ->      (2, '456 Elm St', NULL, 'New York', 'New York City', '10001'),
    ->      (3, '789 Oak St', 'Suite 201', 'Texas', 'Houston', '77001');
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT c.fname, c.lname, a.add1, a.add2, a.city, a.state, a.pincode
    -> FROM cust_mstr c
    -> JOIN add_dets a ON c.cust_no = a.code_no
    -> WHERE c.fname = 'Alice' AND c.lname = 'Smith';
+-------+-------+------------+------+---------------+----------+---------+
| fname | lname | add1       | add2 | city          | state    | pincode |
+-------+-------+------------+------+---------------+----------+---------+
| Alice | Smith | 456 Elm St | NULL | New York City | New York | 10001   |
+-------+-------+------------+------+---------------+----------+---------+
1 row in set (0.00 sec)
```

✦ Joins Query – 2
- Create following Tables:
  cust_mstr(custno,fname,lname),
  acc_fd_cust_dets(codeno,acc_fd_no),
  fd_dets(fd_sr_no,amt).
  List the customer holding fixed deposit of amount more than 5000

```
mysql> USE customer;
Database changed
mysql> CREATE TABLE cust_mstr (
    ->       custno INT PRIMARY KEY,
    ->       fname VARCHAR(50),
    ->       lname VARCHAR(50)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> CREATE TABLE acc_fd_cust_dets (
    ->       codeno INT PRIMARY KEY,
    ->       acc_fd_no INT
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE TABLE fd_dets (
    ->       fd_sr_no INT PRIMARY KEY,
    ->       amt DECIMAL(10,2)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO cust_mstr (custno, fname, lname)
    -> VALUES
    ->     (1, 'John', 'Doe'),
    ->     (2, 'Alice', 'Smith'),
    ->     (3, 'Bob', 'Johnson');
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO acc_fd_cust_dets (codeno, acc_fd_no)
    -> VALUES
    ->     (1, 101),
    ->     (2, 102),
    ->     (3, 103);
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO fd_dets (fd_sr_no, amt)
    -> VALUES
    ->     (101, 6000.00),
    ->     (102, 4000.00),
    ->     (103, 7000.00);
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT c.fname, c.lname
    -> FROM cust_mstr c
    -> JOIN acc_fd_cust_dets a ON c.custno = a.codeno
    -> JOIN fd_dets f ON a.acc_fd_no = f.fd_sr_no
    -> WHERE f.amt > 5000.00;
+-------+---------+
| fname | lname   |
+-------+---------+
| John  | Doe     |
| Bob   | Johnson |
+-------+---------+
2 rows in set (0.00 sec)
```

♣ Joins Query – 3

- Create following Tables:
  emp_mstr(e_mpno,f_name,l_name,m_name,dept,desg,branch_no),
  branch_mstr(name,b_no).
  List the employee details along with branch names to which they belong.

```
mysql> USE customer;
Database changed
mysql> CREATE TABLE emp_mstr (
    ->     empno 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 (0.01 sec)

mysql>
mysql> CREATE TABLE branch_mstr (
    ->     b_no INT PRIMARY KEY,
    ->     name VARCHAR(50)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO emp_mstr (empno, f_name, l_name, m_name, dept, desg, branch_no)
    -> VALUES
    ->     (1, 'John', 'Doe', NULL, 'Sales', 'Manager', 101),
    ->     (2, 'Alice', 'Smith', 'Eve', 'Marketing', 'Executive', 102),
    ->     (3, 'Bob', 'Johnson', 'Michael', 'HR', 'Assistant', 101);
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO branch_mstr (b_no, name)
    -> VALUES
    ->     (101, 'Branch A'),
    ->     (102, 'Branch B');
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> SELECT e.empno, e.f_name, e.l_name, e.dept, e.desg, b.name AS branch_name
    -> FROM emp_mstr e
    -> JOIN branch_mstr b ON e.branch_no = b.b_no;
+-------+--------+---------+-----------+-----------+-------------+
| empno | f_name | l_name  | dept      | desg      | branch_name |
+-------+--------+---------+-----------+-----------+-------------+
|     1 | John   | Doe     | Sales     | Manager   | Branch A    |
|     2 | Alice  | Smith   | Marketing | Executive | Branch B    |
|     3 | Bob    | Johnson | HR        | Assistant | Branch A    |
+-------+--------+---------+-----------+-----------+-------------+
3 rows in set (0.00 sec)
```

♣ Joins Query – 4

- Create following Tables:
  emp_mstr(emp_no,f_name,l_name,m_name,dept),
  cntc_dets(code_no,cntc_type,cntc_data)
  List the employee details along with contact details using left outer join & right join.

```
mysql> USE customer;
Database changed
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)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> CREATE TABLE cntc_dets (
    ->     code_no INT PRIMARY KEY,
    ->     cntc_type VARCHAR(50),
    ->     cntc_data VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO emp_mstr (emp_no, f_name, l_name, m_name, dept)
    -> VALUES
    ->     (1, 'John', 'Doe', NULL, 'Sales'),
    ->     (2, 'Alice', 'Smith', 'Eve', 'Marketing'),
    ->     (3, 'Bob', 'Johnson', 'Michael', 'HR');
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO cntc_dets (code_no, cntc_type, cntc_data)
    -> VALUES
    ->     (1, 'Email', 'john@example.com'),
    ->     (2, 'Phone', '123-456-7890'),
    ->     (3, 'Email', 'alice@example.com');
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT e.emp_no, e.f_name, e.l_name, e.dept, 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  | dept      | cntc_type | cntc_data          |
+--------+--------+---------+-----------+-----------+--------------------+
|      1 | John   | Doe     | Sales     | Email     | john@example.com   |
|      2 | Alice  | Smith   | Marketing | Phone     | 123-456-7890       |
|      3 | Bob    | Johnson | HR        | Email     | alice@example.com  |
+--------+--------+---------+-----------+-----------+--------------------+
3 rows in set (0.00 sec)

mysql>
mysql> SELECT e.emp_no, e.f_name, e.l_name, e.dept, c.cntc_type, c.cntc_data
    -> FROM cntc_dets c
    -> RIGHT JOIN emp_mstr e ON c.code_no = e.emp_no;
+--------+--------+---------+-----------+-----------+--------------------+
| emp_no | f_name | l_name  | dept      | cntc_type | cntc_data          |
+--------+--------+---------+-----------+-----------+--------------------+
|      1 | John   | Doe     | Sales     | Email     | john@example.com   |
|      2 | Alice  | Smith   | Marketing | Phone     | 123-456-7890       |
|      3 | Bob    | Johnson | HR        | Email     | alice@example.com  |
+--------+--------+---------+-----------+-----------+--------------------+
3 rows in set (0.00 sec)
```

Joins Query – 5

- Create following Tables:
  cust_mstr(cust_no,fname,lname),
  add_dets(code_no,pincode).
  List the customer who does not have bank branches in their vicinity.

```
mysql> USE customer;
Database changed
mysql> CREATE TABLE cust_mstr (
    ->      cust_no INT PRIMARY KEY,
    ->      fname VARCHAR(50),
    ->      lname VARCHAR(50)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> CREATE TABLE add_dets (
    ->      code_no INT PRIMARY KEY,
    ->      pincode VARCHAR(10)
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO add_dets (code_no, pincode)
    -> VALUES
    ->      (1, '90001'),
    ->      (2, '10001'),
    ->      (3, '77001');
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> INSERT INTO cust_mstr (cust_no, fname, lname)
    -> VALUES
    ->      (1, 'John', 'Doe'),
    ->      (2, 'Alice', 'Smith'),
    ->      (3, 'Bob', 'Johnson'),
    ->      (4, 'Charlie', 'Brown');
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> INSERT INTO add_dets (code_no)
    -> VALUES
    ->      (5);
Query OK, 1 row affected (0.00 sec)

mysql> SELECT c.fname, c.lname
    -> FROM cust_mstr c
    -> LEFT JOIN add_dets a ON c.cust_no = a.code_no
    -> WHERE a.code_no IS NULL;
+---------+-------+
| fname   | lname |
+---------+-------+
| Charlie | Brown |
+---------+-------+
1 row in set (0.00 sec)
```