**1)**mysql> create view view1 as select cust\_name from Borrower,Loan where Borrower.loan\_no=Loan.loan\_no and branch\_name='STATION' ORDER BY cust\_name asc;

Query OK, 0 rows affected (0.02 sec)

mysql> select \* from view1;

+----------------+

| cust\_name |

+----------------+

| RIDDHI SANGHVI |

+----------------+

1 row in set (0.00 sec)

**2)**mysql> create view view02 as select branch\_name,assets from Branch;

Query OK, 0 rows affected (0.02 sec)

mysql> UPDATE view02 SET assets=100000 WHERE branch\_name = 'AKURDI';

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> INSERT INTO view02(branch\_name,assets)values('VIMAN NAGAR',120000);

Query OK, 1 row affected (0.01 sec)

mysql> SELECT \*FROM Branch;

+-------------+-------------+--------+

| branch\_name | branch\_city | assets |

+-------------+-------------+--------+

| AKURDI | NIGDI | 100000 |

| CAMP | PUNE | 100000 |

| KHADKI | PUNE | 155000 |

| NAVI MUMBAI | MUMBAI | 105000 |

| SANTA CRUZ | MUMBAI | 105000 |

| STATION | PUNE | 155000 |

| VIMAN NAGAR | NULL | 120000 |

+-------------+-------------+--------+

7 rows in set (0.00 sec)

mysql> delete from view02 where assets=120000;

Query OK, 1 row affected (0.01 sec)

mysql> SELECT \*FROM Branch;

+-------------+-------------+--------+

| branch\_name | branch\_city | assets |

+-------------+-------------+--------+

| AKURDI | NIGDI | 100000 |

| CAMP | PUNE | 100000 |

| KHADKI | PUNE | 155000 |

| NAVI MUMBAI | MUMBAI | 105000 |

| SANTA CRUZ | MUMBAI | 105000 |

| STATION | PUNE | 155000 |

+-------------+-------------+--------+

6 rows in set (0.00 sec)

**3)**mysql> create view view03 as select Borrower.loan\_no,Depositor.cust\_name,Depositor.Acc\_no from Borrower,Depositor where Borrower.cust\_name=Depositor.cust\_name;

Query OK, 0 rows affected (0.02 sec)

mysql> select \*from view03;

+---------+-------------------+--------+

| loan\_no | cust\_name | Acc\_no |

+---------+-------------------+--------+

| 101 | ADESH PARDESHI | 1001 |

| 102 | RIDDHI SANGHVI | 1002 |

| 103 | SHARVARI KULKARNI | 1003 |

| 201 | ANKITA KAMBLI | 2001 |

| 202 | RIDDHI RUNWAL | 2003 |

| 301 | APOORV SHAH | 3001 |

| 302 | NIDA SHAIKH | 3002 |

| 303 | PRIYANKA LOKHANDE | 3003 |

| 304 | YOJNA GADIYA | 3004 |

+---------+-------------------+--------+

9 rows in set (0.00 sec)

**4)**mysql> select \* from Borrower LEFT OUTER JOIN Depositor ON Borrower.cust\_name=Depositor.cust\_name UNION select \* from Borrower RIGHT OUTER JOIN Depositor ON Borrower.cust\_name=Depositor.cust\_name;

+-------------------+---------+-------------------+--------+

| cust\_name | loan\_no | cust\_name | Acc\_no |

+-------------------+---------+-------------------+--------+

| ADESH PARDESHI | 101 | ADESH PARDESHI | 1001 |

| RIDDHI SANGHVI | 102 | RIDDHI SANGHVI | 1002 |

| SHARVARI KULKARNI | 103 | SHARVARI KULKARNI | 1003 |

| ANKITA KAMBLI | 201 | ANKITA KAMBLI | 2001 |

| RIDDHI RUNWAL | 202 | RIDDHI RUNWAL | 2003 |

| APOORV SHAH | 301 | APOORV SHAH | 3001 |

| NIDA SHAIKH | 302 | NIDA SHAIKH | 3002 |

| PRIYANKA LOKHANDE | 303 | PRIYANKA LOKHANDE | 3003 |

| YOJNA GADIYA | 304 | YOJNA GADIYA | 3004 |

| NULL | NULL | SHIKHA JAISWAL | 1004 |

| NULL | NULL | DHIREN JAIN | 2002 |

| NULL | NULL | SOHAM BHOJ | 2004 |

+-------------------+---------+-------------------+--------+

12 rows in set (0.01 sec)

**5)** **VIEW 1**

mysql> select \* from view1;

+----------------+

| cust\_name |

+----------------+

| RIDDHI SANGHVI |

+----------------+

1 row in set (0.00 sec)

**VIEW 2**

**\*AFTER UPDATE AND INSERT OPERATION**

mysql> SELECT \*FROM Branch;

+-------------+-------------+--------+

| branch\_name | branch\_city | assets |

+-------------+-------------+--------+

| AKURDI | NIGDI | 100000 |

| CAMP | PUNE | 100000 |

| KHADKI | PUNE | 155000 |

| NAVI MUMBAI | MUMBAI | 105000 |

| SANTA CRUZ | MUMBAI | 105000 |

| STATION | PUNE | 155000 |

| VIMAN NAGAR | NULL | 120000 |

+-------------+-------------+--------+

7 rows in set (0.00 sec)

**\*AFTER DELETE OPERATION**

mysql> SELECT \*FROM Branch;

+-------------+-------------+--------+

| branch\_name | branch\_city | assets |

+-------------+-------------+--------+

| AKURDI | NIGDI | 100000 |

| CAMP | PUNE | 100000 |

| KHADKI | PUNE | 155000 |

| NAVI MUMBAI | MUMBAI | 105000 |

| SANTA CRUZ | MUMBAI | 105000 |

| STATION | PUNE | 155000 |

+-------------+-------------+--------+

6 rows in set (0.00 sec)

mysql> SELECT \* FROM view02;

+-------------+--------+

| branch\_name | assets |

+-------------+--------+

| AKURDI | 100000 |

| CAMP | 100000 |

| KHADKI | 155000 |

| NAVI MUMBAI | 105000 |

| SANTA CRUZ | 105000 |

| STATION | 155000 |

+-------------+--------+

6 rows in set (0.00 sec)

**VIEW 3**

mysql> select \* from view3;

+---------+-------------------+

| loan\_no | cust\_name |

+---------+-------------------+

| 101 | ADESH PARDESHI |

| 102 | RIDDHI SANGHVI |

| 103 | SHARVARI KULKARNI |

| 201 | ANKITA KAMBLI |

| 202 | RIDDHI RUNWAL |

| 301 | APOORV SHAH |

| 302 | NIDA SHAIKH |

| 303 | PRIYANKA LOKHANDE |

| 304 | YOJNA GADIYA |

+---------+-------------------+

9 rows in set (0.00 sec)

**6)**mysql> create index abc on Customer(cust\_street);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> create unique index xyz on Loan(loan\_no);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

**7)** **mysql>** show indexes from Loan;

**+-------+------------+-------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+**

**| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment | Visible | Expression |**

**+-------+------------+-------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+**

**| loan | 0 | PRIMARY | 1 | loan\_no | A | 8 | NULL | NULL | | BTREE | | | YES | NULL |**

**| loan | 0 | xyz | 1 | loan\_no | A | 9 | NULL | NULL | | BTREE | | | YES | NULL |**

**| loan | 1 | branch\_name | 1 | branch\_name | A | 5 | NULL | NULL | YES | BTREE | | | YES | NULL |**

**+-------+------------+-------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+**

**3 rows in set (0.02 sec)**

**mysql>** show indexes from Customer;

**+----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+**

**| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment | Visible | Expression |**

**+----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+**

**| customer | 0 | PRIMARY | 1 | cust\_name | A | 11 | NULL | NULL | | BTREE | | | YES | NULL |**

**| customer | 1 | abc | 1 | cust\_street | A | 10 | NULL | NULL | YES | BTREE | | | YES | NULL |**

**+----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+**

**2 rows in set (0.01 sec)**

**8)** mysql> truncate table bank.Customer;

ERROR 1701 (42000): Cannot truncate a table referenced in a foreign key constraint (`bank`.`depositor`, CONSTRAINT `depositor\_ibfk\_1`)