```
MariaDB [banking_enterprice]> Create table branch (branchname varchar(50), branchcity varchar (5
0),assets integer,PRIMARY KEY(branchname));
Query OK, 0 rows affected (0.020 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES
    -> ('SBIchamrajpet','bangalore',50000);
Query OK, 1 row affected (0.008 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES('SBIresidencyroad ','bangalore',10000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES
    -> ('SBIshivajiroad','bombay',20000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES
    -> ('SBIparliamentroad ','delhi',10000);
Query OK, 1 row affected (0.006 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES
    -> ('SBIjantarmantar','delhi',20000);
Query OK, 1 row affected (0.006 sec)
```

```
MariaDB [banking_enterprice]> Create table bankaccount(accno integer,branchname VARCHAR(50),bala
nce integer,
    -> PRIMARY KEY(accno),
    -> FOREIGN KEY (branchname) REFERENCES branch(branchname));
Query OK, 0 rows affected (0.027 sec)

MariaDB [banking_enterprice]>
MariaDB [banking_enterprice]> insert into bankaccount values(1,'SBIchamrajpet',2000);
Query OK, 1 row affected (0.010 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(2,'SBIresidencyroad',5000);
Query OK, 1 row affected (0.004 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(3,'SBIshivajiroad',6000);
Query OK, 1 row affected (0.009 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(4,'SBIparliamentroad',9000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(5,'SBIjantarmantar',8000);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(6,'SBIshivajiroad',4000);
Query OK, 1 row affected (0.005 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(8,'SBIresidencyroad',4000);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(9,'SBIparliamentroad',3000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(10,'SBIresidencyroad',5000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(11,'SBIjantarmantar',2000);
```

```
MariaDB [banking_enterprice]> create table bankcustomer(customername varchar(30),customerstreet
varchar(30),customercity varchar(30),
    -> PRIMARY KEY (customername)
    -> );
Query OK, 0 rows affected (0.025 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('avinash','bulltempleroad','bangal
ore');
Query OK, 1 row affected (0.015 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('dinesh','bannergattaroad','bangal
ore');
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('mohan','nationalcollegeroad','ban
galore');
Query OK, 1 row affected (0.005 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('nikil','akbarroad','delhi');
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('ravi','pritvirajroad','delhi');
Query OK, 1 row affected (0.007 sec)
```

```
MariaDB [banking_enterprice]> CREATE TABLE depositor
    -> (customername varchar(30),
    -> accno int,
    -> FOREIGN KEY (customername) REFERENCES bankcustomer(customername),
    -> FOREIGN KEY (accno) REFERENCES bankaccount(accno));
Query OK, 0 rows affected (0.021 sec)

MariaDB [banking_enterprice]>
MariaDB [banking_enterprice]> insert into depositor values('avinesh',1);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`banking_e
nterprice`.`depositor`, CONSTRAINT `depositor_ibfk_1` FOREIGN KEY (`customername`) REFERENCES `b
ankcustomer` (`customername`))
MariaDB [banking_enterprice]> insert into depositor values('dinesh',2);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into depositor values('nikil',4);
Query OK, 1 row affected (0.015 sec)

MariaDB [banking_enterprice]> insert into depositor values('ravi',5);
Query OK, 1 row affected (0.006 sec)

MariaDB [banking_enterprice]> insert into depositor values('avinash',8);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into depositor values('nikil',9);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into depositor values('dinesh',10);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into depositor values('nikil',11);
Query OK, 1 row affected (0.012 sec)

MariaDB [banking_enterprice]> select * from depositor;
+--------------+-------+
| customername | accno |
+--------------+-------+
| dinesh       |     2 |
| nikil        |     4 |
| ravi         |     5 |
| avinash      |     8 |
| nikil        |     9 |
| dinesh       |    10 |
| nikil        |    11 |
+--------------+-------+
7 rows in set (0.053 sec)
```

```
MariaDB [banking_enterprice]> CREATE TABLE borrower
    -> (customername varchar(30),loannumber int,
    -> PRIMARY KEY(customername),
    -> FOREIGN KEY (loannumber) REFERENCES LOAN(loannumber)
    -> );
Query OK, 0 rows affected (0.044 sec)

MariaDB [banking_enterprice]> Insert into borrower values('avinash',1);
Query OK, 1 row affected (0.011 sec)

MariaDB [banking_enterprice]> Insert into borrower values('dinesh',2);
Query OK, 1 row affected (0.004 sec)

MariaDB [banking_enterprice]> Insert into borrower values('ravi',3);
Query OK, 1 row affected (0.010 sec)

MariaDB [banking_enterprice]> Insert into borrower values('nikil',4);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> Insert into borrower values('mohan',5);
Query OK, 1 row affected (0.004 sec)
```

```
Database changed
MariaDB [banking_enterprice]> SELECT * FROM BRANCH;
ERROR 1146 (42S02): Table 'banking_enterprice.BRANCH' doesn't exist
MariaDB [banking_enterprice]> SELECT * FROM branch;
+--------------------+------------+--------+
| branchname         | branchcity | assets |
+--------------------+------------+--------+
| SBIchamrajpet      | bangalore  |  50000 |
| SBIjantarmantar    | delhi      |  20000 |
| SBIparliamentroad  | delhi      |  10000 |
| SBIresidencyroad   | bangalore  |  10000 |
| SBIshivajiroad     | bombay     |  20000 |
+--------------------+------------+--------+
5 rows in set (0.034 sec)

MariaDB [banking_enterprice]> select * from bankaccount;
+-------+-------------------+---------+
| accno | branchname        | balance |
+-------+-------------------+---------+
|     1 | SBIchamrajpet     |    2000 |
|     2 | SBIresidencyroad  |    5000 |
|     3 | SBIshivajiroad    |    6000 |
|     4 | SBIparliamentroad |    9000 |
|     5 | SBIjantarmantar   |    8000 |
|     6 | SBIshivajiroad    |    4000 |
|     8 | SBIresidencyroad  |    4000 |
|     9 | SBIparliamentroad |    3000 |
|    10 | SBIresidencyroad  |    5000 |
|    11 | SBIjantarmantar   |    2000 |
+-------+-------------------+---------+
10 rows in set (0.002 sec)

MariaDB [banking_enterprice]> select * from bankcustomer;
+--------------+---------------------+--------------+
| customername | customerstreet      | customercity |
+--------------+---------------------+--------------+
| avinash      | bulltempleroad      | bangalore    |
| dinesh       | bannergattaroad     | bangalore    |
| mohan        | nationalcollegeroad | bangalore    |
| nikil        | akbarroad           | delhi        |
| ravi         | pritvirajroad       | delhi        |
+--------------+---------------------+--------------+
5 rows in set (0.002 sec)
```

```
MariaDB [banking_enterprice]> select * from depositor;
+--------------+-------+
| customername | accno |
+--------------+-------+
| dinesh       |     2 |
| nikil        |     4 |
| ravi         |     5 |
| avinash      |     8 |
| nikil        |     9 |
| dinesh       |    10 |
| nikil        |    11 |
+--------------+-------+
7 rows in set (0.002 sec)

MariaDB [banking_enterprice]> select * from LOAN;
+------------+------------------+--------+
| loannumber | branchname       | amount |
+------------+------------------+--------+
|          1 | SBIchamrajpet    |   1000 |
|          2 | SBIresidencyroad |   2000 |
|          3 | SBIshivajiroad   |   3000 |
|          4 | SBIparliamentroad|   4000 |
|          5 | SBIjantarmantar  |   5000 |
+------------+------------------+--------+
5 rows in set (0.003 sec)

MariaDB [banking_enterprice]> SELECT * FROM borrower;
+--------------+------------+
| customername | loannumber |
+--------------+------------+
| avinash      |          1 |
| dinesh       |          2 |
| ravi         |          3 |
| nikil        |          4 |
| mohan        |          5 |
+--------------+------------+
5 rows in set (0.003 sec)
```

```
MariaDB [banking_enterprice]> select C.customername
    -> from depositor C
    -> WHERE EXISTS(
    -> SELECT D.customername,count(D.customername)
    -> from borrower D, bankaccount BA
    -> WHERE
    -> D.loannumber=BA.accno AND
    -> C.customername=D.customername AND
    -> BA.branchname='SBIresidencyroad'
    -> group by D.customername
    -> HAVING COUNT(D.customername)>=2);
Empty set (0.142 sec)

MariaDB [banking_enterprice]> █
```

```
|   10 | SBIresidencyroad   |   5000 |
|   11 | SBIjantarmantar    |   2000 |
+--------+--------------------+----------+
8 rows in set (0.002 sec)

MariaDB [banking_enterprice]>
MariaDB [banking_enterprice]> select BC.customername from depositor BC WHERE NOT EXISTS( SELECT
branchname from branch WHERE branchcity='delhi');
Empty set (0.162 sec)
```

```
MariaDB [banking_enterprice]
MariaDB [banking_enterprice]>
MariaDB [banking_enterprice]> DELETE FROM bankaccount WHERE branchname IN(SELECT branchname FROM
 branch WHERE branchcity='bombay');
Query OK, 2 rows affected (0.122 sec)

MariaDB [banking_enterprice]> select * from bankaccount;
+-------+-------------------+---------+
| accno | branchname        | balance |
+-------+-------------------+---------+
|     1 | SBIchamrajpet     |    2000 |
|     2 | SBIresidencyroad  |    5000 |
|     4 | SBIparliamentroad |    9000 |
|     5 | SBIjantarmantar   |    8000 |
|     8 | SBIresidencyroad  |    4000 |
|     9 | SBIparliamentroad |    3000 |
|    10 | SBIresidencyroad  |    5000 |
|    11 | SBIjantarmantar   |    2000 |
+-------+-------------------+---------+
8 rows in set (0.002 sec)

MariaDB [banking_enterprice]>
```