mysql> create database rokesh\_20190010098\_bank; Query OK, 1 row affected (0.00 sec) mysql> use rokesh\_20190010098\_bank; Database changed

```
mysql> create table branch(branch_name varchar(50),branch_city varchar(50),customer_city varchar(50),primary key(branch_name));

Query OK, 0 rows affected (0.30 sec)

mysql> create table customer(customer_name varchar(50),customer_street varchar(50),customer_city varchar(50),primary key(customer_name));

Query OK, 0 rows affected (0.38 sec)

mysql> create table loan(loan_number int,branch_name varchar(50),amount int,primary key(loan_number),foreign key(branch_name) references branch(branch_name));

Query OK, 0 rows affected (0.28 sec)

mysql> create table borrower(customer_name varchar(50),loan_number int,primary key(customer_name,loan_number),foreign key(customer_name) references customer(customer_name),

foreign key(loan_number) references loan(loan_number));

Query OK, 0 rows affected (0.43 sec)

mysql> create table account(account_number varchar(50),branch_name varchar(50),balance double,primary key(account_number), foreign key(branch_name) references branch(branch_name));

Query OK, 0 rows affected (0.36 sec)

mysql> alter table account modify column account_number int;

Query OK, 0 rows affected (0.74 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> create table depositor(customer_name varchar(50),account_number int,primary key(customer_name,account_number),foreign key(customer_name) references customer(customer_name), foreign key(ccount_number) references customer(customer_name), foreign key(account_number) references account(account_number));

Query OK, 0 rows affected (0.34 sec)
```

```
mysql> show tables:
 Tables_in_rokesh_20190010098_bank
 account
 borrower
 branch
 customer
  depositor
  loan
6 rows in set (0.00 sec)
```

```
mysql> insert into branch values('sricity', 'sricity', 10000);
Query OK, 1 row affected (0.08 sec)
mysql> insert into branch values('tirupati', 'tirupati', 20000);
Query OK, 1 row affected (0.08 sec)
mysql> insert into branch values('vijayawada', 'vijayawada', 200000);
Query OK, 1 row affected (0.09 sec)
mysql> insert into branch values('kurnool', 'kurnool', 30000);
Query OK, 1 row affected (0.05 sec)
mysql> insert into branch values('hyderabad', 'hyderabad', 400000);
Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into customer values('rokesh', 'gandhistreet', 'sricity');
Query OK, 1 row affected (0.03 sec)
mysql> insert into customer values('lakshman', 'oldstreet', 'tirupati');
Query OK, 1 row affected (0.11 sec)
mysql> insert into customer values('phani', 'newstreet', 'vijayawada');
Query OK, 1 row affected (0.13 sec)
mysql> insert into customer values('govi', 'nehrustreet', 'kurnool');
Query OK, 1 row affected (0.12 sec)
mysql> insert into customer values('prabhu', 'madhapur', 'hyderabad');
Query OK, 1 row affected (0.12 sec)
mysql> insert into customer values('bharath', 'newstreet', 'tirupati');
Query OK, 1 row affected (0.12 sec)
```

```
mysql> insert into loan values(1001, 'sricity', 1000);
Query OK, 1 row affected (0.03 sec)
mysql> insert into loan values(1002, 'tirupati', 10000);
Query OK, 1 row affected (0.02 sec)
mysql> insert into loan values(1003, 'vijayawada', 1000000);
Query OK, 1 row affected (0.09 sec)
mysql> insert into loan values(1004, 'kurnool', 200000);
Query OK, 1 row affected (0.13 sec)
mysql> insert into loan values(1005, 'hyderabad', 500000);
Query OK, 1 row affected (0.12 sec)
```

```
mysql> isert into borrower values('bharath',1001);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'isert into borrow er values('bharath',1001)' at line 1
mysql> isert into borrower values('rokesh',1001);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'isert into borrow er values('rokesh');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'isert into borrow er values('rokesh');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'isert into borrow er values('rokesh');
and the province of the right syntax to use near 'isert into borrow er values('bharath',1001);
Query OK, 1 row affected (0.12 sec)

Mysql> insert into borrower values('phani',1002);
Query OK, 1 row affected (0.05 sec)

Mysql> insert into borrower values('govardhan',1004);
ERROR 1452 (23000): cannot add or update a child row: a foreign key constraint fails ('rokesh_20190010098_bank'.'borrower', CONSTRAINT 'borrower_ibfk_1' FOREIGN KEY ('customer_name') REFERENCES customer (customer_name')

Mysql> insert into borrower values('govi',1004);
Query OK, 1 row affected (0.14 sec)

Query OK, 1 row affected (0.14 sec)

Query OK, 1 row affected (0.14 sec)
```

```
mysql> insert into account values(123456, 'sricity',1100);
Query OK, 1 row affected (0.12 sec)
mysql> insert into account values(123457, 'tirupati', 10000);
Query OK, 1 row affected (0.13 sec)
mysql> insert into account values(123458, 'tirupati', 100000);
Query OK, 1 row affected (0.12 sec)
mysql> insert into account values(123459,'vijayawada',200000);
Query OK, 1 row affected (0.04 sec)
mysql> insert into account values(123460, 'vijayawada', 20000);
Query OK, 1 row affected (0.13 sec)
mysql> update account set branch_name='kurnool' where account_number=123460;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> insert into account values(123461, 'hyderabad',50000);
Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into depositor values('rokesh',123456);
Query OK, 1 row affected (0.12 sec)
mysql> insert into depositor values('laksman',123457);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`rokesh_20190010098_bank`.`depositor`, CONSTRAINT `depositor_ibfk_1` FOREIGN KEY (`cus tomer_name`))
mysql> insert into depositor values('lakshman',123457);
Query OK, 1 row affected (0.04 sec)
mysql> insert into depositor values('bharath',123458);
Query OK, 1 row affected (0.09 sec)
mysql> insert into depositor values('govi',123459);
Query OK, 1 row affected (0.04 sec)
mysql> insert into depositor values('phani',123460);
Query OK, 1 row affected (0.11 sec)
mysql> update depositor customer_name='phani' where account_number=123459;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '='phani' where ac count_number=123459' at line 1
mysql> delete from depositor where customer_name='phani','govi';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''govi'' at line 1
mysql> delete from depositor where customer_name='phani';
Query OK, 1 row affected (0.13 sec)
mysql> update depositor customer_name='phani' where account_number=123459;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '='phani' where ac
count_number=123459' at line 1
mysql> delete from depositor where customer_name='govi';
Query OK, 1 row affected (0.12 sec)
mysql> insert into depositor values('phani',123459);
Query OK, 1 row affected (0.13 sec)
mysql> insert into depositor values('govi',123460);
Query OK, 1 row affected (0.13 sec)
mysql> insert into depositor values('prabhu',123461);
Query OK, 1 row affected (0.13 sec)
```

```
mysql> select * from branch;
 branch_name | branch_city |
                              assets
 hyderabad
                               400000
                hyderabad
                                30000
                kurnool
 kurnool
                                10000
                sricity
 sricity
                                20000
                tirupati
 tirupati
                vijayawada
                              200000
 vijayawada
 rows in set (0.00 sec)
mysql> select * from customer;
                                     customer_city
                  customer_street
 customer_name
                                     tirupati
 bharath
                  newstreet
                                     kurnoo1
                  nehrustreet
 govi
                                     tirupati
                  oldstreet
  lakshman
                                     vijayawada
                  newstreet
 phani
                  madhapur
                                     hyderabad
 prabhu
                  gandhistreet
                                     sricity
 rokesh
6 rows in set (0.00 sec)
mysql> select * from loan;
  loan_number
                branch_name
                              amount
                sricity
         1001
                                1500
         1002
                tirupati
                               10000
         1003
                              100000
                vijayawada
         1004
                              200000
                kurnool
         1005
                hyderabad
                              500000
 rows in set (0.00 sec)
```

mysql> select \* from borrower; | customer\_name | loan\_number | | bharath | 1001 | | lakshman | 1002 | | phani | 1003 | | govi | 1004 | | prabhu | 1005 |

5 rows in set (0.00 sec)

mysql> select \* from account;

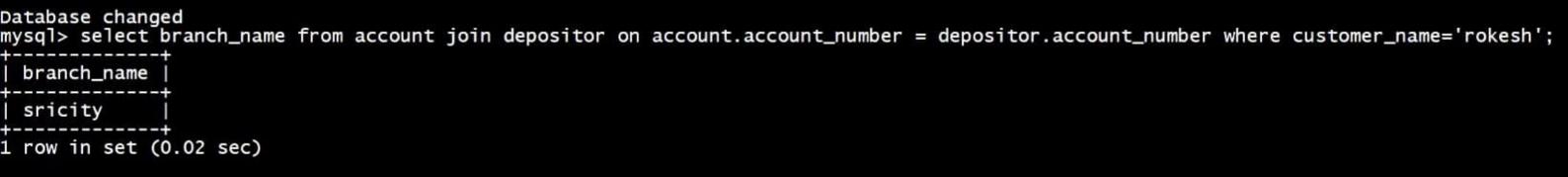
account_number	branch_name	balance
123456	sricity	1100
123457	tirupati	10000
123458	tirupati	100000
123459	vijayawada	200000
123460	kurnool	20000
123461	hyderabad	50000

6 rows in set (0.00 sec)

mysql> select \* from depositor;

customer_name	account_number
rokesh	123456
lakshman	123457
bharath	123458
phani	123459
govi	123460
prabhu	123461

6 rows in set (0.00 sec)



```
mysql> alter table depositor drop foreign key depositor_ibfk_1;
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> delete from customer where customer_name in(select customer_name from borrower where loan_number from loan where amount=200000));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'from loan where a mount=200000))' at line 1
mysql> delete from customer where customer_name in(select customer_name from borrower where loan_number from loan where amount=200000);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'from loan where a mount=200000)' at line 1
mysql> delete from customer where customer_name in(select customer_name from borrower where loan_number in(select loan_number from loan where amount=200000));
Query OK, 1 row affected (0.11 sec)
mysql> select * from customer:
   customer_name | customer_street | customer_city
   bharath
                                 newstreet
                                                                     tirupati
                                 oldstreet
   lakshman
                                                                    tirupati
   phani
                                 newstreet
                                                                    vijayawada
                                                                    hyderabad
  prabhu
                                 madhapur
                                 gandhistreet
  rokesh
                                                                    sricity
```

mysql> alter table borrower drop foreign key borrower\_ibfk\_1; Query OK, 0 rows affected (0.27 sec) Records: 0 Duplicates: 0 Warnings: 0

5 rows in set (0.00 sec)