mysql> create database bank;

Query OK, 1 row affected (0.01 sec)

mysql> show databases;

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

| Database |

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

| bank |

| information\_schema |

| mysql |

| performance\_schema |

| sys |

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

5 rows in set (0.00 sec)

mysql> use bank;

Database changed

mysql> create table Branch(branch\_name varchar(255),branch\_city varchar(255),assets int,PRIMARY KEY(branch\_name));

Query OK, 0 rows affected (0.03 sec)

mysql> create table Customer(cust\_name varchar(255),cust\_street varchar(255),cust\_city varchar(255),PRIMARY KEY(cust\_name));

Query OK, 0 rows affected (0.01 sec)

mysql> create table Account(Acc\_no int,branch\_name varchar(255),balance int,PRIMARY KEY(Acc\_no) ,FOREIGN KEY(branch\_name) REFERENCES Branch(branch\_name));

Query OK, 0 rows affected (0.03 sec)

mysql> create table Loan(loan\_no int,branch\_name varchar(255),amount int,PRIMARY KEY(loan\_no) ,FOREIGN KEY(branch\_name) REFERENCES Branch(branch\_name));

Query OK, 0 rows affected (0.04 sec)

mysql> create table Depositor(cust\_name varchar(255),Acc\_no int,FOREIGN KEY(cust\_name) REFERENCES Customer(cust\_name),FOREIGN KEY(Acc\_no) REFERENCES Account(Acc\_no));

Query OK, 0 rows affected (0.04 sec)

mysql> create table Borrower(cust\_name varchar(255),loan\_no int,FOREIGN KEY(cust\_name) REFERENCES Customer(cust\_name),FOREIGN KEY(loan\_no) REFERENCES Loan(loan\_no));

Query OK, 0 rows affected (0.04 sec)

mysql> insert into Branch values('AKURDI', 'NIGDI', 150000);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Branch values('CAMP', 'PUNE', 100000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Branch values('KHADKI', 'PUNE', 155000);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Branch values('NAVI MUMBAI', 'MUMBAI', 105000);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Branch values('SANTA CRUZ', 'MUMBAI', 105000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Branch values('STATION', 'PUNE', 155000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Customer values('ADESH PARDESHI','CAMP', 'PUNE');

Query OK, 1 row affected (0.02 sec)

mysql> insert into Customer values('ANKITA KAMBLI','PIMPRI', 'PIMPRI');

Query OK, 1 row affected (0.01 sec)

mysql> insert into Customer values('APOORV SHAH','VASAI ROAD', 'MUMBAI');

Query OK, 1 row affected (0.01 sec)

mysql> insert into Customer values('DHIREN JAIN','AKURDI', 'NIGDI');

Query OK, 1 row affected (0.01 sec)

mysql> insert into Customer values('NIDA SHAIKH','SANTA CRUZ', 'MUMBAI');

Query OK, 1 row affected (0.02 sec)

mysql> insert into Customer values('PRIYANKA LOKHANDE','BORIWALI(E)', 'MUMBAI');

Query OK, 1 row affected (0.02 sec)

mysql> insert into Customer values('RIDDHI RUNWAL','AKURDI', 'NIGDI');

Query OK, 1 row affected (0.01 sec)

mysql> insert into Customer values('RIDDHI SANGHVI','WAKDEWADI', 'PUNE');

Query OK, 1 row affected (0.00 sec)

mysql> insert into Customer values('SHARVARI KULKARNI','VIMAN-NAGAR', 'PUNE');

Query OK, 1 row affected (0.02 sec)

mysql> insert into Customer values('SHIKHA JAISWAL','ABC CHOWK', 'PUNE');

Query OK, 1 row affected (0.00 sec)

mysql> insert into Customer values('SOHAM BHOJ','AKURDI', 'NIGDI');

Query OK, 1 row affected (0.02 sec)

mysql> insert into Customer values('YOJNA GADIYA','BORIWALI(W)', 'MUMBAI');

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(1001, 'CAMP',60000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(1002, 'STATION',100000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(1003, 'STATION',130000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(1004, 'KHADKI',10000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(2001, 'AKURDI',50000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(2002, 'AKURDI',150000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(2003, 'AKURDI',12000);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Account values(2004, 'AKURDI',50000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(3001, 'NAVI MUMBAI',60000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(3002, 'SANTA CRUZ',16000);

Query OK, 1 row affected (0.00 sec)

mysql> insert into Account values(3003, 'NAVI MUMBAI',10000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Account values(3004, 'NAVI MUMBAI',12000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Loan values(101, 'CAMP',15000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Loan values(102, 'STATION',100000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Loan values(201, 'AKURDI',12000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Loan values(202, 'AKURDI',50000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Loan values(301, 'NAVI MUMBAI',20000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Loan values(302, 'SANTA CRUZ',20000);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Loan values(303, 'SANTA CRUZ',60000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Loan values(304, 'NAVI MUMBAI',60000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('ADESH PARDESHI',1001);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('RIDDHI SANGHVI',1002);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('SHARVARI KULKARNI',1003);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('SHIKHA JAISWAL',1004);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('ANKITA KAMBLI',2001);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('DHIREN JAIN',2002);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('RIDDHI RUNWAL',2003);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Depositor values('SOHAM BHOJ',2004);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Depositor values('APOORV SHAH',3001);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('NIDA SHAIKH',3002);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('PRIYANKA LOKHANDE',3003);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Depositor values('YOJNA GADIYA',3004);

Query OK, 1 row affected (0.00 sec)

mysql> insert into Borrower values('ADESH PARDESHI',101);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Borrower values('RIDDHI SANGHVI',102);

Query OK, 1 row affected (0.02 sec)

mysql> insert into Loan values(103, 'KHADKI',10000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values('SHARVARI KULKARNI',103);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values('ANKITA KAMBLI',201);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values('RIDDHI RUNWAL',202);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values('APOORV SHAH',301);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values('NIDA SHAIKH',302);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values('PRIYANKA LOKHANDE',303);

Query OK, 1 row affected (0.01 sec)

mysql> insert into Borrower values('YOJNA GADIYA',304);

Query OK, 1 row affected (0.01 sec)

mysql> select \*from Branch;

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

| branch\_name | branch\_city | assets |

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

| AKURDI | NIGDI | 150000 |

| 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 Customer;

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

| cust\_name | cust\_street | cust\_city |

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

| ADESH PARDESHI | CAMP | PUNE |

| ANKITA KAMBLI | PIMPRI | PIMPRI |

| APOORV SHAH | VASAI ROAD | MUMBAI |

| DHIREN JAIN | AKURDI | NIGDI |

| NIDA SHAIKH | SANTA CRUZ | MUMBAI |

| PRIYANKA LOKHANDE | BORIWALI(E) | MUMBAI |

| RIDDHI RUNWAL | AKURDI | NIGDI |

| RIDDHI SANGHVI | WAKDEWADI | PUNE |

| SHARVARI KULKARNI | VIMAN-NAGAR | PUNE |

| SHIKHA JAISWAL | ABC CHOWK | PUNE |

| SOHAM BHOJ | AKURDI | NIGDI |

| YOJNA GADIYA | BORIWALI(W) | MUMBAI |

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

12 rows in set (0.00 sec)

mysql> select \*from Account;

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

| Acc\_no | branch\_name | balance |

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

| 1001 | CAMP | 60000 |

| 1002 | STATION | 100000 |

| 1003 | STATION | 130000 |

| 1004 | KHADKI | 10000 |

| 2001 | AKURDI | 50000 |

| 2002 | AKURDI | 150000 |

| 2003 | AKURDI | 12000 |

| 2004 | AKURDI | 50000 |

| 3001 | NAVI MUMBAI | 60000 |

| 3002 | SANTA CRUZ | 16000 |

| 3003 | NAVI MUMBAI | 10000 |

| 3004 | NAVI MUMBAI | 12000 |

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

12 rows in set (0.00 sec)

mysql> select \*from Loan;

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

| loan\_no | branch\_name | amount |

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

| 101 | CAMP | 15000 |

| 102 | STATION | 100000 |

| 103 | KHADKI | 10000 |

| 201 | AKURDI | 12000 |

| 202 | AKURDI | 50000 |

| 301 | NAVI MUMBAI | 20000 |

| 302 | SANTA CRUZ | 20000 |

| 303 | SANTA CRUZ | 60000 |

| 304 | NAVI MUMBAI | 60000 |

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

9 rows in set (0.00 sec)

mysql> select \*from Depositor;

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

| cust\_name | Acc\_no |

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

| ADESH PARDESHI | 1001 |

| RIDDHI SANGHVI | 1002 |

| SHARVARI KULKARNI | 1003 |

| SHIKHA JAISWAL | 1004 |

| ANKITA KAMBLI | 2001 |

| DHIREN JAIN | 2002 |

| RIDDHI RUNWAL | 2003 |

| SOHAM BHOJ | 2004 |

| APOORV SHAH | 3001 |

| NIDA SHAIKH | 3002 |

| PRIYANKA LOKHANDE | 3003 |

| YOJNA GADIYA | 3004 |

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

12 rows in set (0.00 sec)

mysql> select \*from Borrower;

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

| cust\_name | loan\_no |

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

| ADESH PARDESHI | 101 |

| RIDDHI SANGHVI | 102 |

| SHARVARI KULKARNI | 103 |

| ANKITA KAMBLI | 201 |

| RIDDHI RUNWAL | 202 |

| APOORV SHAH | 301 |

| NIDA SHAIKH | 302 |

| PRIYANKA LOKHANDE | 303 |

| YOJNA GADIYA | 304 |

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

9 rows in set (0.00 sec)

**1)**mysql> select branch\_name from Loan;

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

| branch\_name |

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

| AKURDI |

| AKURDI |

| CAMP |

| KHADKI |

| NAVI MUMBAI |

| NAVI MUMBAI |

| SANTA CRUZ |

| SANTA CRUZ |

| STATION |

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

9 rows in set (0.00 sec)

**2)**mysql> select loan\_no from Loan where branch\_name='AKURDI' AND amount>12000;

+---------+

| loan\_no |

+---------+

| 202 |

+---------+

1 row in set (0.01 sec)

**3)**mysql> select cust\_name,Loan.loan\_no,amount from Loan,Borrower where Loan.loan\_no=Borrower.loan\_no;

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

| cust\_name | loan\_no | amount |

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

| ADESH PARDESHI | 101 | 15000 |

| RIDDHI SANGHVI | 102 | 100000 |

| SHARVARI KULKARNI | 103 | 10000 |

| ANKITA KAMBLI | 201 | 12000 |

| RIDDHI RUNWAL | 202 | 50000 |

| APOORV SHAH | 301 | 20000 |

| NIDA SHAIKH | 302 | 20000 |

| PRIYANKA LOKHANDE | 303 | 60000 |

| YOJNA GADIYA | 304 | 60000 |

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

9 rows in set (0.00 sec)

**4)**mysql> select distinct cust\_name from Borrower,Loan where Borrower.loan\_no=Loan.loan\_no and branch\_name='AKURDI' ORDER BY cust\_name ;

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

| cust\_name |

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

| ANKITA KAMBLI |

| RIDDHI RUNWAL |

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

2 rows in set (0.01 sec)

**5)**mysql> (select cust\_name from Depositor)UNION(select cust\_name from Borrower);

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

| cust\_name |

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

| ADESH PARDESHI |

| ANKITA KAMBLI |

| APOORV SHAH |

| DHIREN JAIN |

| NIDA SHAIKH |

| PRIYANKA LOKHANDE |

| RIDDHI RUNWAL |

| RIDDHI SANGHVI |

| SHARVARI KULKARNI |

| SHIKHA JAISWAL |

| SOHAM BHOJ |

| YOJNA GADIYA |

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

12 rows in set (0.00 sec)

**6)**mysql> SELECT DISTINCT cust\_name from Borrower where cust\_name in(select cust\_name from Depositor);

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

| cust\_name |

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

| ADESH PARDESHI |

| ANKITA KAMBLI |

| APOORV SHAH |

| NIDA SHAIKH |

| PRIYANKA LOKHANDE |

| RIDDHI RUNWAL |

| RIDDHI SANGHVI |

| SHARVARI KULKARNI |

| YOJNA GADIYA |

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

9 rows in set (0.01 sec)

**7)**mysql> SELECT DISTINCT cust\_name from Depositor where cust\_name not in(select cust\_name from Borrower);

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

| cust\_name |

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

| DHIREN JAIN |

| SHIKHA JAISWAL |

| SOHAM BHOJ |

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

3 rows in set (0.01 sec)

**8)**mysql> select branch\_name,balance from(select branch\_name,avg(balance) from Account group by branch\_name)as result(branch\_name,balance);

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

| branch\_name | balance |

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

| AKURDI | 65500.0000 |

| CAMP | 60000.0000 |

| KHADKI | 10000.0000 |

| NAVI MUMBAI | 27333.3333 |

| SANTA CRUZ | 16000.0000 |

| STATION | 115000.0000 |

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

6 rows in set (0.01 sec)

**9)**mysql> select branch\_name,count(distinct cust\_name)from Depositor,Account where Depositor.Acc\_no=Account.Acc\_no;

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

| branch\_name | count(distinct cust\_name) |

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

| CAMP | 12 |

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

1 row in set (0.01 sec)

**9)**mysql> select Account.branch\_name,count(distinct(Depositor.cust\_name))from Account,Depositor where Account.Acc\_no=Depositor.Acc\_no group by branch\_name;

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

| branch\_name | count(distinct(Depositor.cust\_name)) |

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

| AKURDI | 4 |

| CAMP | 1 |

| KHADKI | 1 |

| NAVI MUMBAI | 3 |

| SANTA CRUZ | 1 |

| STATION | 2 |

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

6 rows in set (0.01 sec)

**10)**mysql> select cust\_name,cust\_city from Customer where cust\_name LIKE 'P%';

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

| cust\_name | cust\_city |

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

| PRIYANKA LOKHANDE | MUMBAI |

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

1 row in set (0.00 sec)

**11)**mysql> SELECT DISTINCT branch\_name from Branch;

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

| branch\_name |

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

| AKURDI |

| CAMP |

| KHADKI |

| NAVI MUMBAI |

| SANTA CRUZ |

| STATION |

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

6 rows in set (0.00 sec)

**12)**mysql> select branch\_name,balance from Account group by branch\_name having avg(balance)>12000;

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

| branch\_name | balance |

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

| AKURDI | 50000 |

| CAMP | 60000 |

| NAVI MUMBAI | 60000 |

| SANTA CRUZ | 16000 |

| STATION | 100000 |

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

5 rows in set (0.00 sec)

**13)**mysql> select count(\*) from Customer;

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

| count(\*) |

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

| 12 |

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

1 row in set (0.01 sec)

**14)**mysql> select sum(amount) from Loan;

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

| sum(amount) |

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

| 347000 |

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

1 row in set (0.00 sec)

**15)**mysql> delete from Loan where amount between 1300 and 1500;

Query OK, 0 rows affected (0.01 sec)

mysql> select \* from Loan;

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

| loan\_no | branch\_name | amount |

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

| 101 | CAMP | 15000 |

| 102 | STATION | 100000 |

| 103 | KHADKI | 10000 |

| 201 | AKURDI | 12000 |

| 202 | AKURDI | 50000 |

| 301 | NAVI MUMBAI | 20000 |

| 302 | SANTA CRUZ | 20000 |

| 303 | SANTA CRUZ | 60000 |

| 304 | NAVI MUMBAI | 60000 |

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

9 rows in set (0.00 sec)

**16)**mysql> delete from Account where branch\_name='NIGDI';

Query OK, 0 rows affected (0.00 sec)

mysql> SELECT \*FROM Account;

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

| Acc\_no | branch\_name | balance |

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

| 1001 | CAMP | 60000 |

| 1002 | STATION | 100000 |

| 1003 | STATION | 130000 |

| 1004 | KHADKI | 10000 |

| 2001 | AKURDI | 50000 |

| 2002 | AKURDI | 150000 |

| 2003 | AKURDI | 12000 |

| 2004 | AKURDI | 50000 |

| 3001 | NAVI MUMBAI | 60000 |

| 3002 | SANTA CRUZ | 16000 |

| 3003 | NAVI MUMBAI | 10000 |

| 3004 | NAVI MUMBAI | 12000 |

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

12 rows in set (0.00 sec)