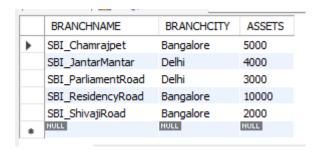show databases;

create database BANK;

use BANK;

CREATE TABLE Branch (

  BRANCHNAME VARCHAR(50) PRIMARY KEY,

  BRANCHCITY VARCHAR(50),

  ASSETS INT

);

INSERT INTO Branch VALUES

('SBI_Chamrajpet', 'Bangalore', 5000),

('SBI_ResidencyRoad', 'Bangalore', 10000),

('SBI_ShivajiRoad', 'Bangalore', 2000),

('SBI_ParliamentRoad', 'Delhi', 3000),

('SBI_JantarMantar', 'Delhi', 4000);

select*from Branch;

	BRANCHNAME	BRANCHCITY	ASSETS
▶	SBI_Chamrajpet	Bangalore	5000
	SBI_JantarMantar	Delhi	4000
	SBI_ParliamentRoad	Delhi	3000
	SBI_ResidencyRoad	Bangalore	10000
	SBI_ShivajiRoad	Bangalore	2000
*	NULL	NULL	NULL

CREATE TABLE BankAccount (

  ACCNO INT PRIMARY KEY,

  BRANCHNAME VARCHAR(50),

  BALANCE INT,

  FOREIGN KEY (BRANCHNAME) REFERENCES Branch(BRANCHNAME)

);

INSERT INTO BankAccount VALUES

(1, 'SBI_Chamrajpet', 5000),

(2, 'SBI_ResidencyRoad', 10000),

(3, 'SBI_ShivajiRoad', 2000),

(4, 'SBI_ParliamentRoad', 3000),

(5, 'SBI_JantarMantar', 4000);

select*from BankAccount;

ACCNO	BRANCHNAME	BALANCE
1	SBI_Chamrajpet	5000
2	SBI_ResidencyRoad	10000
3	SBI_ShivajiRoad	2000
4	SBI_ParliamentRoad	3000
5	SBI_JantarMantar	4000
NULL	NULL	NULL

CREATE TABLE BankCustomer (

  CUSTOMERNAME VARCHAR(50) PRIMARY KEY,

  CUSTOMERSTREET VARCHAR(100),

  CUSTOMERCITY VARCHAR(50)

);

INSERT INTO BankCustomer VALUES

('Avinash', 'Bull_Temple_Road', 'Bangalore'),

('Dinesh', 'Bannerghatta_Road', 'Bangalore'),

('Mohan', 'NationalCollege_Road', 'Bangalore'),

('Nikil', 'Gandhi_Bazaar', 'Bangalore'),

('Ravi', 'Prithviraj_Road', 'Delhi');

select*from BankCustomer;

CUSTOMERNAME	CUSTOMERSTREET	CUSTOMERCITY
Avinash	Bull_Temple_Road	Bangalore
Dinesh	Bannerghatta_Road	Bangalore
Mohan	NationalCollege_Road	Bangalore
Nikil	Gandhi_Bazaar	Bangalore
Ravi	Prithviraj_Road	Delhi
NULL	NULL	NULL

CREATE TABLE Loan (

  LOANNUMBER VARCHAR(10) PRIMARY KEY,

  BRANCHNAME VARCHAR(50),

  AMOUNT INT,

  FOREIGN KEY (BRANCHNAME) REFERENCES Branch(BRANCHNAME)

);

INSERT INTO Loan VALUES

('L1', 'SBI_Chamrajpet', 1000),

('L2', 'SBI_ResidencyRoad', 2000),

('L3', 'SBI_ShivajiRoad', 3000),

('L4', 'SBI_ParliamentRoad', 4000),

('L5', 'SBI_JantarMantar', 5000);

select*from Loan;

LOANNUMBER	BRANCHNAME	AMOUNT
L1	SBI_Chamrajpet	1000
L2	SBI_ResidencyRoad	2000
L3	SBI_ShivajiRoad	3000
L4	SBI_ParliamentRoad	4000
L5	SBI_JantarMantar	5000
NULL	NULL	NULL

CREATE TABLE Depositor (

 CUSTOMERNAME VARCHAR(50),

 ACCNO INT,

 FOREIGN KEY (CUSTOMERNAME) REFERENCES BankCustomer(CUSTOMERNAME),

 FOREIGN KEY (ACCNO) REFERENCES BankAccount(ACCNO)

);

INSERT INTO Depositor VALUES

('Avinash', 1),

('Dinesh', 2),

('Nikil', 3),

('Ravi', 4),

('Avinash', 5),

('Dinesh', 1),

('Nikil', 2),

('Nikil', 3),

('Dinesh', 4),

('Nikil', 5);

select*from Depositor;

CUSTOMERNAME	ACCNO
Avinash	1
Dinesh	2
Nikil	3
Ravi	4
Avinash	5
Dinesh	1
Nikil	2
Nikil	3
Dinesh	4
Nikil	5

select BRANCHNAME, ASSETS AS ASSETS_IN_LAKHS

FROM Branch;

BRANCHNAME	ASSETS_IN_LAKHS
SBI_Chamrajpet	5000
SBI_JantarMantar	4000
SBI_ParliamentRoad	3000
SBI_ResidencyRoad	10000
SBI_ShivajiRoad	2000
NULL	NULL

select d.CUSTOMERNAME

from BankAccount b, Depositor d

where b.ACCNO=D.ACCNO

group by d.CUSTOMERNAME

having count(*)>1;

CUSTOMERNAME
Avinash
Dinesh
Nikil

create view LOANS_AT_BRANCH

AS SELECT BRANCHNAME, SUM(AMOUNT)

FROM Loan

GROUP BY BRANCHNAME;

select*from LOANS_AT_BRANCH;

BRANCHNAME	SUM(AMOUNT)
SBI_Chamrajpet	1000
SBI_JantarMantar	5000
SBI_ParliamentRoad	4000
SBI_ResidencyRoad	2000
SBI_ShivajiRoad	3000