CREATE DATABASE BankSchema;

USE BankSchema;

CREATE TABLE Branch(

BRANCHNAME VARCHAR(50) ,

BRANCHCITY VARCHAR(50),

ASSESTS REAL ,

PRIMARY KEY (BRANCHNAME)

);

CREATE TABLE BankAccount (

ACCNO INT ,

BRANCHNAME VARCHAR(50) ,

BALANCE REAL ,

PRIMARY KEY (ACCNO),

FOREIGN KEY (BRANCHNAME) REFERENCES Branch(BRANCHNAME)

);

CREATE TABLE BankCustomer (

CUSTOMERNAME VARCHAR(50) ,

CUSTOMERSTREET VARCHAR(50) ,

CUSTOMERCITY VARCHAR(50) ,

PRIMARY KEY (CUSTOMERNAME)

);

CREATE TABLE Depositer (

CUSTOMERNAME VARCHAR(50) ,

ACCNO INT ,

FOREIGN KEY (CUSTOMERNAME) REFERENCES BankCustomer(CUSTOMERNAME),

FOREIGN KEY (ACCNO) REFERENCES BankAccount(ACCNO)

);

CREATE TABLE Loan (

LOANNO INT ,

BRANCHNAME VARCHAR(50) ,

AMOUNT REAL,

PRIMARY KEY (LOANNO),

FOREIGN KEY (BRANCHNAME) REFERENCES Branch(BRANCHNAME)

);

INSERT INTO Branch VALUES

('SBI\_Chamrajpet', 'Bangalore', 50000.00),

('SBI\_ResidencyRoad', 'Bangalore', 10000.00),

('SBI\_ShivajiRoad', 'Bombay', 20000.00),

('SBI\_ParlimentRoad', 'Delhi', 10000.00),

('SBI\_Jantarmantar', 'Delhi', 20000.00);

INSERT INTO BankCustomer VALUES

('Avinash', 'Bull\_Temple\_Road', 'Bangalore'),

('Dinesh', 'Bannergatta\_Road', 'Bangalore'),

('Mohan', 'NationalCollege\_Road', 'Bangalore'),

('Nikil', 'Akbar\_Road', 'Delhi'),

('Ravi', 'Prithviraj\_Road', 'Delhi');

INSERT INTO BankAccount VALUES

(1, 'SBI\_Chamrajpet', 2000.00),

(2, 'SBI\_ResidencyRoad', 5000.00),

(3, 'SBI\_ShivajiRoad', 6000.00),

(4, 'SBI\_ParlimentRoad', 9000.00),

(5, 'SBI\_ParlimentRoad', 8000.00),

(6, 'SBI\_ShivajiRoad', 4000.00),

(7, 'SBI\_ResidencyRoad', 4000.00),

(8, 'SBI\_ParlimentRoad', 3000.00),

(9, 'SBI\_ResidencyRoad', 5000.00),

(10, 'SBI\_Jantarmantar', 2000.00);

INSERT INTO Depositer VALUES

('Avinash', 1),

('Dinesh', 2),

('Nikil', 4),

('Ravi', 5),

('Avinash',6),

('Dinesh',7),

('Avinash', 8),

('Nikil', 9),

('Dinesh', 10);

INSERT INTO Loan VALUES

(1, 'SBI\_Chamrajpet', 1000.00),

(2, 'SBI\_ResidencyRoad', 2000.00),

(3, 'SBI\_ShivajiRoad', 3000.00),

(4, 'SBI\_ParlimentRoad', 4000.00),

(5, 'SBI\_Jantarmantar', 5000.00);

SELECT BRANCHNAME, ASSESTS / 100000 AS 'assets in lakhs'

FROM Branch;

SELECT D.CUSTOMERNAME, COUNT(\*) AS AccountCount

FROM Depositer D

GROUP BY D.CUSTOMERNAME

HAVING COUNT(\*) >= 2;

CREATE VIEW BranchLoanSummary AS

SELECT BRANCHNAME, SUM(AMOUNT) AS TotalLoanAmount

FROM Loan

GROUP BY BRANCHNAME;

SELECT \* FROM BranchLoanSummary;

SELECT D.CUSTOMERNAME

FROM Depositer D, BankAccount BA

WHERE D.ACCNO = BA.ACCNO AND BA.BRANCHNAME IN(select BRANCHNAME FROM BRANCH WHERE BRANCHCITY='Delhi')

GROUP BY D.CUSTOMERNAME;

SELECT CUSTOMERNAME

FROM Depositer d,BankAccount b,loan l

WHERE d.ACCNO=b.ACCNO and b.BRANCHNAME=l.BRANCHNAME

AND b.BRANCHNAME IN (SELECT BRANCHNAME FROM Branch where BRANCHCITY='Banglore');

SELECT DISTINCT D.CUSTOMERNAME

FROM Depositer AS D, BankAccount AS B, Branch AS BA

WHERE D.ACCNO = B.ACCNO

AND B.BRANCHNAME = BA.BRANCHNAME

AND BA.BRANCHCITY = 'Bangalore';

DELETE FROM Depositer

WHERE ACCNO IN (

SELECT B.ACCNO

FROM BankAccount AS B, Branch AS BA

WHERE B.BRANCHNAME = BA.BRANCHNAME

AND BA.BRANCHCITY = 'Bombay'

);

DELETE FROM BankAccount

WHERE BRANCHNAME IN (

SELECT BRANCHNAME

FROM Branch

WHERE BRANCHCITY = 'Bombay'

);

SELECT BRANCHNAME

FROM Branch

WHERE ASSESTS > ALL (

SELECT ASSESTS

FROM Branch

WHERE BRANCHCITY = 'Bangalore'

);

UPDATE BankAccount

SET BALANCE = BALANCE \* 1.05;

