10 .Create the following tables. And Solve following queries by SQL

1. Deposit (actno,cname,bname,amount,adate)

2. Branch (bname,city)

3. Customers (cname, city)

4. Borrow(loanno,cname,bname, amount)

Add primary key and foreign key wherever applicable.

Insert data into the above created tables.

CREATE TABLE Deposit (

actno INT PRIMARY KEY,

cname VARCHAR(255),

bname VARCHAR(255),

amount DECIMAL(10, 2),

adate DATE,

FOREIGN KEY (cname) REFERENCES Customers(cname),

FOREIGN KEY (bname) REFERENCES Branch(bname)

);

CREATE TABLE Branch (

bname VARCHAR(255) PRIMARY KEY,

city VARCHAR(255)

);

CREATE TABLE Customers (

cname VARCHAR(255) PRIMARY KEY,

city VARCHAR(255)

);

CREATE TABLE Borrow (

loanno INT PRIMARY KEY,

cname VARCHAR(255),

bname VARCHAR(255),

amount DECIMAL(10, 2),

FOREIGN KEY (cname) REFERENCES Customers(cname),

FOREIGN KEY (bname) REFERENCES Branch(bname)

);

-- Insert data into the Branch table

INSERT INTO Branch (bname, city)

VALUES

('Main', 'Mumbai'),

('Downtown', 'Mumbai'),

('North', 'Delhi'),

('South', 'Chennai'),

('East', 'Kolkata');

-- Insert data into the Customers table

INSERT INTO Customers (cname, city)

VALUES

('Anil', 'Pune'),

('Rajesh', 'Mumbai'),

('Sarika', 'Delhi'),

('Pooja', 'Chennai'),

('Amit', 'Kolkata');

-- Insert data into the Deposit table

INSERT INTO Deposit (actno, cname, bname, amount, adate)

VALUES

(101, 'Anil', 'Main', 5000.00, '2023-11-01'),

(102, 'Rajesh', 'Downtown', 7500.00, '2023-11-02'),

(103, 'Sarika', 'North', 3000.00, '2023-11-03'),

(104, 'Pooja', 'South', 6000.00, '2023-11-04'),

(105, 'Amit', 'East', 9000.00, '2023-11-05');

-- Insert data into the Borrow table

INSERT INTO Borrow (loanno, cname, bname, amount)

VALUES

(201, 'Anil', 'Main', 2000.00),

(202, 'Rajesh', 'Downtown', 3000.00),

(203, 'Sarika', 'North', 1500.00),

(204, 'Pooja', 'South', 2500.00),

(205, 'Amit', 'East', 4000.00);

a. Display names of all branches located in city Bombay.

SELECT bname

FROM Branch

WHERE city = 'Mumbai';

b. Display account no. and amount of depositors.

SELECT actno, amount

FROM Deposit;

c. Update the city of customers Anil from Pune to Mumbai

UPDATE Customers

SET city = 'Mumbai'

WHERE cname = 'Anil';

d. Find the number of depositors in the bank

SELECT COUNT(DISTINCT cname) AS num\_depositors

FROM Deposit;

e. Calculate Min,Max amount of customers.

SELECT MIN(amount) AS min\_amount, MAX(amount) AS max\_amount

FROM Deposit;

f. Create an index on deposit table

CREATE INDEX idx\_actno ON Deposit(actno);

g. Create View on Borrow table.

CREATE VIEW BorrowView AS

SELECT loanno, cname, bname, amount

FROM Borrow;