Create the following tables. Solve queries by SQL

• Deposit (actno,cname,bname,amount,adate)

• Branch (bname,city)

• Customers (cname, city)

• 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'),

('Karolbagh', 'Delhi'),

('Nagpur', 'Nagpur');

-- Insert data into the Customers table

INSERT INTO Customers (cname, city)

VALUES

('Anil', 'Mumbai'),

('Rajesh', 'Mumbai'),

('Sarika', 'Delhi'),

('Pooja', 'Chennai'),

('Amit', 'Kolkata'),

('Sunil', 'Pune'),

('Karan', 'Nagpur');

-- 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'),

(106, 'Sunil', 'Karolbagh', 4000.00, '2023-11-06'),

(107, 'Karan', 'Nagpur', 3000.00, '2023-11-07');

-- 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),

(206, 'Sunil', 'Karolbagh', 3500.00);

Solve following queries by SQL

1. Display customer name having living city Bombay and branch city Nagpur

SELECT c.cname

FROM Customers c

JOIN Branch b ON c.city = 'Mumbai' AND b.city = 'Nagpur';

2. Display customer name having same living city as their branch city

SELECT c.cname

FROM Customers c

JOIN Branch b ON c.city = b.city;

3. Display customer name who are borrowers as well as depositors and having

living city Nagpur.

SELECT c.cname

FROM Customers c

JOIN Borrow bo ON c.cname = bo.cname

JOIN Deposit d ON c.cname = d.cname

WHERE c.city = 'Nagpur';

4. Display borrower names having deposit amount greater than 1000 and loan

amount greater than 2000

SELECT bo.cname

FROM Borrow bo

JOIN Deposit d ON bo.cname = d.cname

WHERE d.amount > 1000 AND bo.amount > 2000;

5. Display customer name living in the city where branch of depositor sunil is

located.

SELECT c.cname

FROM Customers c

JOIN Deposit d ON c.cname = d.cname

JOIN Branch b ON d.bname = b.bname

WHERE d.cname = 'Sunil';

6. Create an index on deposit table

CREATE INDEX idx\_deposit ON Deposit(actno);