```
create database 10Practical;

use 10Practical;

CREATE TABLE Branch (
    bname VARCHAR(50) PRIMARY KEY,
    city VARCHAR(50)
);

CREATE TABLE Customers (
    cname VARCHAR(50) PRIMARY KEY,
    city VARCHAR(50)
);

CREATE TABLE Deposit (
    actno INT PRIMARY KEY,
    cname VARCHAR(50),
    bname VARCHAR(50),
    amount DECIMAL(10, 2),
    adate DATE,
    FOREIGN KEY (cname) REFERENCES Customers(cname),
    FOREIGN KEY (bname) REFERENCES Branch(bname)
);

CREATE TABLE Borrow (
    loanno INT PRIMARY KEY,
    cname VARCHAR(50),
    bname VARCHAR(50),
    amount DECIMAL(10, 2),
    FOREIGN KEY (cname) REFERENCES Customers(cname),
    FOREIGN KEY (bname) REFERENCES Branch(bname)
);

-- Insert data into Branch table
INSERT INTO Branch (bname, city) VALUES ('Branch1', 'Bombay');
INSERT INTO Branch (bname, city) VALUES ('Branch2', 'Delhi');
INSERT INTO Branch (bname, city) VALUES ('Branch3', 'Pune');

-- Insert data into Customers table
INSERT INTO Customers (cname, city) VALUES ('Anil', 'Pune');
INSERT INTO Customers (cname, city) VALUES ('Sunita', 'Delhi');
INSERT INTO Customers (cname, city) VALUES ('Ravi', 'Bombay');

-- Insert data into Deposit table
INSERT INTO Deposit (actno, cname, bname, amount, adate) VALUES (1001, 'Anil',
'Branch1', 1500.00, '2024-01-15');
INSERT INTO Deposit (actno, cname, bname, amount, adate) VALUES (1002, 'Sunita',
'Branch2', 2500.00, '2024-02-20');
INSERT INTO Deposit (actno, cname, bname, amount, adate) VALUES (1003, 'Ravi',
'Branch1', 3500.00, '2024-03-25');

-- Insert data into Borrow table
INSERT INTO Borrow (loanno, cname, bname, amount) VALUES (2001, 'Anil', 'Branch1',
5000.00);
INSERT INTO Borrow (loanno, cname, bname, amount) VALUES (2002, 'Sunita',
'Branch2', 7000.00);
INSERT INTO Borrow (loanno, cname, bname, amount) VALUES (2003, 'Ravi', 'Branch1',
6000.00);
```

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

```
SELECT bname
FROM Branch
WHERE city = 'Bombay';
```

```
+---------+
| bname   |
+---------+
| Branch1 |
+---------+
```

b. Display account number and amount of depositors

```
SELECT actno, amount
FROM Deposit;
```

```
+-------+---------+
| actno | amount  |
+-------+---------+
|  1001 | 1500.00 |
|  1002 | 2500.00 |
|  1003 | 3500.00 |
+-------+---------+
```

C. Update the city of customer Anil from Pune to Mumbai

```
UPDATE Customers
SET city = 'Mumbai'
WHERE cname = 'Anil';
```

```
Rows matched: 1  Changed: 0  Warnings: 0
```

d. Find the number of depositors in the bank

```
SELECT COUNT(*) AS number_of_depositors
FROM Deposit;
```

```
+----------------------+
| number_of_depositors |
+----------------------+
|                    3 |
+----------------------+
```

e. Calculate the minimum and maximum amount of customers

```
SELECT MIN(amount) AS min_amount, MAX(amount) AS max_amount
FROM Deposit;
```

```
+------------+------------+
| min_amount | max_amount |
+------------+------------+
|    1500.00 |    3500.00 |
+------------+------------+
```

f. Create an index on the Deposit table

```
CREATE INDEX idx_deposit_cname ON Deposit(cname);
```

g. Create a view on the Borrow table

```
CREATE VIEW BorrowView AS
SELECT loanno, cname, bname, amount
FROM Borrow;
```