11. 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.
a. Display account date of customers Anil.
b. Modify the size of attribute of amount in deposit
c. Display names of customers living in city pune.
d. Display name of the city where branch KAROLBAGH is located.
e. Find the number of tuples in the customer relation
f. Delete all the record of customers Sunil
g. Create a view on deposit table.

_____
_____
_____

```sql
create database 11Practical;

use 11Practical;

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 Sample Data
INSERT INTO Branch (bname, city) VALUES
    ('KAROLBAGH', 'Delhi'),
    ('MGROAD', 'Pune'),
    ('SOUTHEND', 'Mumbai');

INSERT INTO Customers (cname, city) VALUES
    ('Anil', 'Pune'),
```

```
    ('Sunil', 'Mumbai'),
    ('Ravi', 'Delhi'),
    ('Meena', 'Pune');

INSERT INTO Deposit (actno, cname, bname, amount, adate) VALUES
    (101, 'Anil', 'MGROAD', 5000.00, '2024-01-15'),
    (102, 'Sunil', 'SOUTHEND', 3000.00, '2024-02-10'),
    (103, 'Ravi', 'KAROLBAGH', 7000.00, '2024-03-25');

INSERT INTO Borrow (loanno, cname, bname, amount) VALUES
    (201, 'Anil', 'MGROAD', 1000.00),
    (202, 'Ravi', 'KAROLBAGH', 500.00);
```

a. Display account date of customers Anil.

```
SELECT adate FROM Deposit WHERE cname = 'Anil';
+------------+
| adate      |
+------------+
| 2024-01-15 |
+------------+
```

b. Modify the size of attribute of amount in deposit

```
ALTER TABLE Deposit MODIFY amount DECIMAL(15, 2);
```

c. Display names of customers living in city pune.

```
SELECT cname FROM Customers WHERE city = 'Pune';
+-------+
| cname |
+-------+
| Anil  |
| Meena |
+-------+
```

d. Display name of the city where branch KAROLBAGH is located.

```
 SELECT city FROM Branch WHERE bname = 'KAROLBAGH';
+-------+
| city  |
+-------+
| Delhi |
+-------+
```

e. Find the number of tuples in the customer relation

```
SELECT COUNT(*) FROM Customers;
+----------+
| COUNT(*) |
+----------+
|        4 |
+----------+
```

f. Delete all the record of customers Sunil

```
-- Delete all deposits associated with Sunil
```

```sql
DELETE FROM Deposit WHERE cname = 'Sunil';

-- Now delete Sunil from Customers
DELETE FROM Customers WHERE cname = 'Sunil';
```

g. Create a view on deposit table.
```sql
CREATE VIEW DepositView AS
SELECT actno, cname, bname, amount, adate FROM Deposit;
```