

NAME: SUMANT SHRIDHAR

BATCH: 3K2

DBMS LAB

DATE: 17/10/25

BANK DATABASE

```
CREATE DATABASE BankDB;
```

```
USE BankDB;
```

```
CREATE TABLE Branch (
```

```
    BRANCHNAME VARCHAR(50) PRIMARY KEY,
```

```
    BRANCHCITY VARCHAR(50),
```

```
    ASSETS INT
```

```
);
```

```
CREATE TABLE BankAccount (
```

```
    ACCNO INT PRIMARY KEY,
```

```
    BRANCHNAME VARCHAR(50),
```

```
    BALANCE INT,
```

```
    FOREIGN KEY (BRANCHNAME) REFERENCES Branch(BRANCHNAME)
```

```
);
```

```
CREATE TABLE BankCustomer (
```

```
    CUSTOMERNAME VARCHAR(50) PRIMARY KEY,
```

```
    CUSTOMERSTREET VARCHAR(100),
```

```
    CUSTOMERCITY VARCHAR(50)
```

```
);
```

```
CREATE TABLE Depositer (
```

```
    CUSTOMERNAME VARCHAR(50),
```

```
    ACCNO INT,
```

```
    FOREIGN KEY (CUSTOMERNAME) REFERENCES BankCustomer(CUSTOMERNAME),
```

```
    FOREIGN KEY (ACCNO) REFERENCES BankAccount(ACCNO)
```

```
);
```

```
CREATE TABLE Loan (
    LOANNUMBER INT PRIMARY KEY,
    BRANCHNAME VARCHAR(50),
    AMOUNT INT,
    FOREIGN KEY (BRANCHNAME) REFERENCES Branch(BRANCHNAME)
);
```

```
INSERT INTO Branch VALUES
('SBI_Chamrajpet', 'Bangalore', 50000),
('SBI_ResidencyRoad', 'Bangalore', 10000),
('SBI_ShivajiRoad', 'Bombay', 20000),
('SBI_ParliamentRoad', 'Delhi', 10000),
('SBI_JantarMantar', 'Delhi', 20000);
```

```
INSERT INTO BankAccount VALUES
(1, 'SBI_Chamrajpet', 2000),
(2, 'SBI_ResidencyRoad', 5000),
(3, 'SBI_ShivajiRoad', 6000),
(4, 'SBI_ParliamentRoad', 9000),
(5, 'SBI_JantarMantar', 8000),
(6, 'SBI_ShivajiRoad', 4000),
(8, 'SBI_ResidencyRoad', 4000),
(9, 'SBI_ParliamentRoad', 3000),
(10, 'SBI_ResidencyRoad', 5000),
(11, 'SBI_JantarMantar', 2000);
```

```
INSERT INTO BankCustomer VALUES
('Avinash', 'Bull Temple Road', 'Bangalore'),
('Dinesh', 'Bannerghatta Road', 'Bangalore'),
('Mohan', 'National College Road', 'Bangalore'),
('Nikil', 'Akbar Road', 'Delhi'),
```

```
('Ravi', 'Prithviraj Road', 'Delhi');
```

```
INSERT INTO Depositer VALUES
```

```
('Avinash', 1),
```

```
('Dinesh', 2),
```

```
('Nikil', 4),
```

```
('Ravi', 5),
```

```
('Avinash', 8),
```

```
('Nikil', 9),
```

```
('Dinesh', 10),
```

```
('Nikil', 11);
```

```
INSERT INTO Loan VALUES
```

```
(1, 'SBI_Chamrajpet', 1000),
```

```
(2, 'SBI_ResidencyRoad', 2000),
```

```
(3, 'SBI_ShivajiRoad', 3000),
```

```
(4, 'SBI_ParliamentRoad', 4000),
```

```
(5, 'SBI_JantarMantar', 5000);
```

```
-- QUERIES
```

```
-- 1. Find all the customers who have at least two accounts at the same branch
```

```
SELECT d.CUSTOMERNAME, b.BRANCHNAME  
FROM Depositer d, BankAccount b  
WHERE d.ACCNO=b.ACCNO  
GROUP BY d.CUSTOMERNAME, b.BRANCHNAME  
HAVING COUNT(d.ACCNO)>=2;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

CUSTOMERNAME	BRANCHNAME
Dinesh	SBI_ResidencyRoad
Nikil	SBI_ParliamentRoad

-- 2. Display the branch name and assets from all branches in lakhs of rupees and rename the assets column to 'assets in lakhs'.

```
SELECT BRANCHNAME, ASSETS/100000 as "Assets in Lakhs"
FROM Branch;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

BRANCHNAME	Assets in Lakhs
SBI_Chamrajpet	0.500000
SBI_JantarMantar	0.200000
SBI_ParliamentRoad	0.100000
SBI_ResidencyRoad	0.100000
SBI_ShivajiRoad	0.200000

-- 3. CREATE A VIEW WHICH GIVES EACH BRANCH THE SUM OF THE AMOUNT OF ALL THE LOANS AT THE BRANCH.

```
CREATE VIEW Branch_Loan AS
SELECT BRANCHNAME, SUM(AMOUNT) AS Total_Loan
FROM Loan
GROUP BY BRANCHNAME;
SELECT * FROM Branch_Loan;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

BRANCHNAME	Total_Loan
SBI_Chamrajpet	1000.00
SBI_JantarMantar	5000.00
SBI_ParliamentRoad	4000.00
SBI_ResidencyRoad	2000.00
SBI_ShivajiRoad	3000.00