

BANK DATABASE

```
CREATE DATABASE Bank;
```

```
USE Bank;
```

```
CREATE TABLE Branch (
```

```
    branch_name VARCHAR(30) PRIMARY KEY,
```

```
    branch_city VARCHAR(30),
```

```
    assets REAL
```

```
);
```

```
CREATE TABLE BankAccount (
```

```
    accno INT PRIMARY KEY,
```

```
    branch_name VARCHAR(30),
```

```
    balance REAL,
```

```
    FOREIGN KEY (branch_name) REFERENCES Branch(branch_name)
```

```
);
```

```
CREATE TABLE BankCustomer (
```

```
    customer_name VARCHAR(30) PRIMARY KEY,
```

```
    customer_street VARCHAR(50),
```

```
    customer_city VARCHAR(30)
```

```
);
```

```
CREATE TABLE Depositer (
```

```
    customer_name VARCHAR(30),
```

```
    accno INT,
```

```
    PRIMARY KEY (customer_name, accno),
```

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

```
    FOREIGN KEY (accno) REFERENCES BankAccount(accno)
```

```
);
```

```
CREATE TABLE Loan (
```

```
    loan_number INT PRIMARY KEY,
```

```
    branch_name VARCHAR(30),
```

```
    amount REAL,
```

```
    FOREIGN KEY (branch_name) REFERENCES Branch(branch_name)
```

```
);
```

```
INSERT INTO Branch VALUES
```

```
('SBI_Chamrajpet', 'Bangalore', 50000),
```

```
('SBI_ResidencyRoad', 'Bangalore', 100000),
```

```
('SBI_ShivajiRoad', 'Bombay', 200000),
```

```
('SBI_ParliamentRoad', 'Delhi', 10000),
```

```
('SBI_Jantarmantra', 'Delhi', 20000);
```

```
INSERT INTO BankAccount VALUES
```

```
(1, 'SBI_Chamrajpet', 2000),
```

```
(2, 'SBI_ResidencyRoad', 5000),
```

```
(3, 'SBI_ShivajiRoad', 6000),
```

```
(4, 'SBI_ParliamentRoad', 9000),
```

```
(5, 'SBI_Jantarmantra', 8000),
```

```

(6, 'SBI_ShivajiRoad', 4000),

(8, 'SBI_ParliamentRoad', 3000),

(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', 'NationalCollege_Road', 'Bangalore'),

('Nikhil', 'Akbar_Road', 'Delhi'),

('Ravi', 'Prithviraj_Road', 'Delhi');

INSERT INTO Depositer VALUES

('Avinash', 1),

('Dinesh', 2),

('Nikhil', 4),

('Ravi', 5),

('Avinash', 8),

('Nikhil', 9),

('Dinesh', 10),

('Nikhil', 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);

```

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

- **QUERY:**

```
SELECT branch_name, (assets / 100000) AS "assets in lakhs"
```

```
FROM Branch;
```

- **OUTPUT**

Result Grid		
Filter Rows:		
	BranchName	assets in lakhs
▶	SBI_Chamrajpet	0.5000
	SBI_Jantarmantar	0.2000
	SBI_ParliamentRoad	0.1000
	SBI_ResidencyRoad	0.1000
	SBI_ShivajiRoad	0.2000

2. Find all the customers who have at least two accounts at the same branch (ex. SBI_ResidencyRoad).

- QUERY:

```
SELECT
d.customer_name,
b.branch_name,
COUNT(*) AS no_of_accounts
FROM Depositer d
JOIN BankAccount b
ON d.accno = b.accno
GROUP BY d.customer_name, b.branch_name
HAVING COUNT(*) >= 2;
```

- OUTPUT:

Result Grid			
Filter Rows:			
Export:			
	customer_name	branch_name	no_of_accounts
▶	Dinesh	SBI_ResidencyRoad	2
	Nikhil	SBI_ParliamentRoad	2

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

QUERY:

```
CREATE VIEW BranchLoanSummary AS
SELECT branch_name, SUM(amount) AS total_loan_amount
FROM Loan
GROUP BY branch_name;
SELECT * FROM BranchLoanSummary;
```

OUTPUT:

Result Grid		
Filter Rows:		
Export:		
	branch_name	total_loan_amount
▶	SBI_Chambrajpet	1000
	SBI_Jantarmantra	5000
	SBI_ParliamentRoad	4000
	SBI_ResidencyRoad	2000
	SBI_ShivajiRoad	3000