DBMS lab 3  BANK DATABASE  17/10/2025

```
create database Bank;
use Bank;

create table Branch(
BranchName varchar(50) primary key,
BrachCity varchar(50),
Assets real);
create table BankAccount(
AccNo int primary key,
BranchName varchar(50),
Balance real,
foreign key(BranchName) references Branch(BranchName)
);

create table BankCustomer(
CustomerName varchar(50) primary key,
Customer_street varchar(50) ,
city varchar(50)
);
create table Depositer(
CustomerName varchar(50),
AccNo int,
foreign key(AccNo) references BankAccount(AccNo),
foreign key(CustomerName) references BankCustomer(CustomerName)
);

create table loan(
laon_num int primary key,
BranchName varchar(50),
```

```
Amount real,
foreign key(BranchName) references Branch(BranchName)
);
INSERT INTO Branch VALUES
('SBI_ResidencyRoad', 'Bangalore', 5000000),
('SBI_Indiranagar', 'Bangalore', 3500000),
('SBI_Mysore', 'Mysore', 2000000),
('SBI_Hubli', 'Hubli', 3000000),
('SBI_Dharwad', 'Dharwad', 2500000);

INSERT INTO BankAccount VALUES
(1, 'SBI_ResidencyRoad', 20000),
(2, 'SBI_ResidencyRoad', 50000),
(3, 'SBI_Indiranagar', 15000),
(4,'SBI_Mysore',18000),
(5,'SBI_Mysore',35000),
(6,'SBI_Hubli',20000),
(7,'SBI_Dharwad',10000),
(8, 'SBI_ResidencyRoad', 25000),
(9,'SBI_Indiranagar',23000),
(10, 'SBI_ResidencyRoad', 30000);

INSERT INTO BankCustomer VALUES
('Dinesh', 'MG Road', 'Bangalore'),
('Avinash', 'Jayanagar', 'Bangalore'),
('Kiran', 'VV Puram', 'Mysore'),
('Priya', 'Hubli Main', 'Hubli'),
('Megha', 'Keshwapur', 'Dharwad');

INSERT INTO Depositer VALUES
('Dinesh', 2),
```

('Avinash', 8),

('Dinesh', 10),

('Kiran', 3),

('Priya', 1);

INSERT INTO loan VALUES

(101, 'SBI_ResidencyRoad', 100000),

(102, 'SBI_Indiranagar', 80000),

(103, 'SBI_Mysore', 50000),

(104, 'SBI_Hubli', 70000),

(105, 'SBI_Dharwad', 60000);

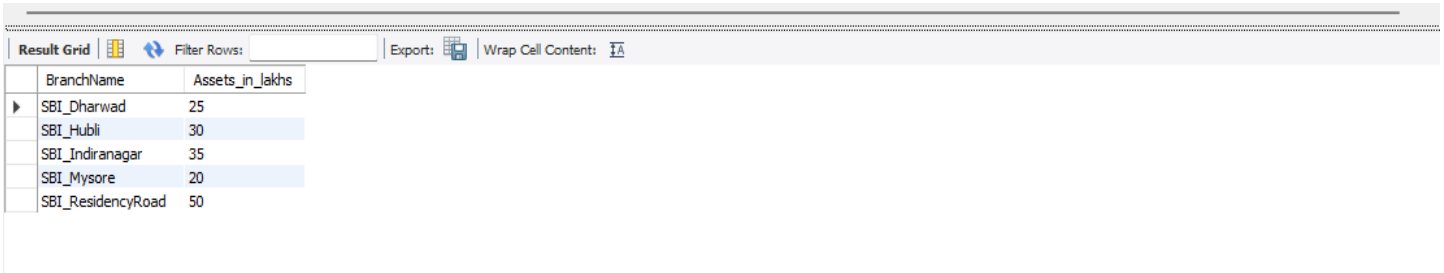
# QUERY QUESTIONS

Q1. 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;

output:


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

| BranchName | Assets_in_lakhs |
|---|---|
| SBI_Dharwad | 25 |
| SBI_Hubli | 30 |
| SBI_Indiranagar | 35 |
| SBI_Mysore | 20 |
| SBI_ResidencyRoad | 50 |

Q2.Find all the customers who have at least two accounts at the same branch (ex. SBI_ResidencyRoad).

SELECT D.CustomerName, B.BranchName, COUNT(*) AS num_accounts

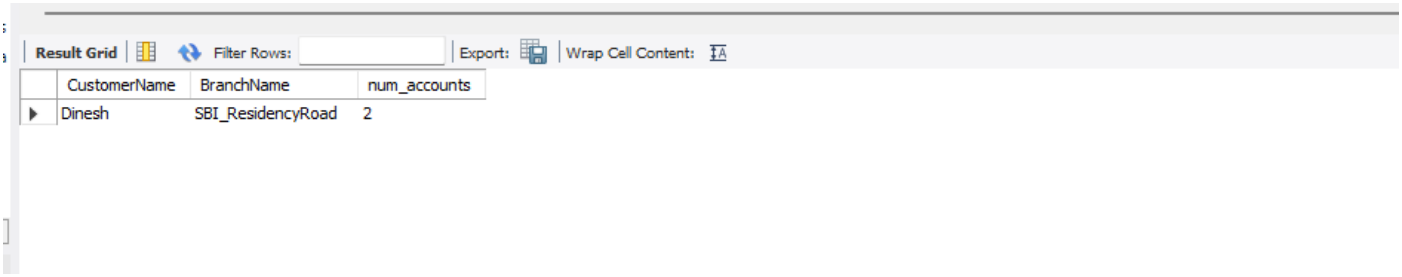
FROM Depositer D

JOIN BankAccount B

ON D.AccNo = B.AccNo

```
WHERE B.BranchName = 'SBI_ResidencyRoad'

GROUP BY D.CustomerName,B.BranchName

HAVING COUNT(*) >= 2;
```

Output:

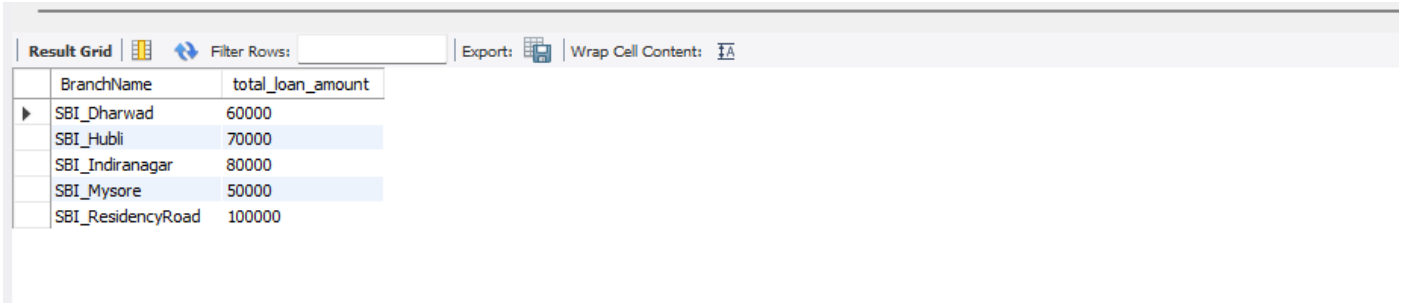


| CustomerName | BranchName | num_accounts |
|---|---|---|
| Dinesh | SBI_ResidencyRoad | 2 |

Q3.view creation and display

```
CREATE VIEW BranchLoanSummary AS

SELECT BranchName, SUM(Amount) AS total_loan_amount

FROM Loan

GROUP BY BranchName;

select * from BranchLoanSummary;
```

output:



| BranchName | total_loan_amount |
|---|---|
| SBI_Dharwad | 60000 |
| SBI_Hubli | 70000 |
| SBI_Indiranagar | 80000 |
| SBI_Mysore | 50000 |
| SBI_ResidencyRoad | 100000 |