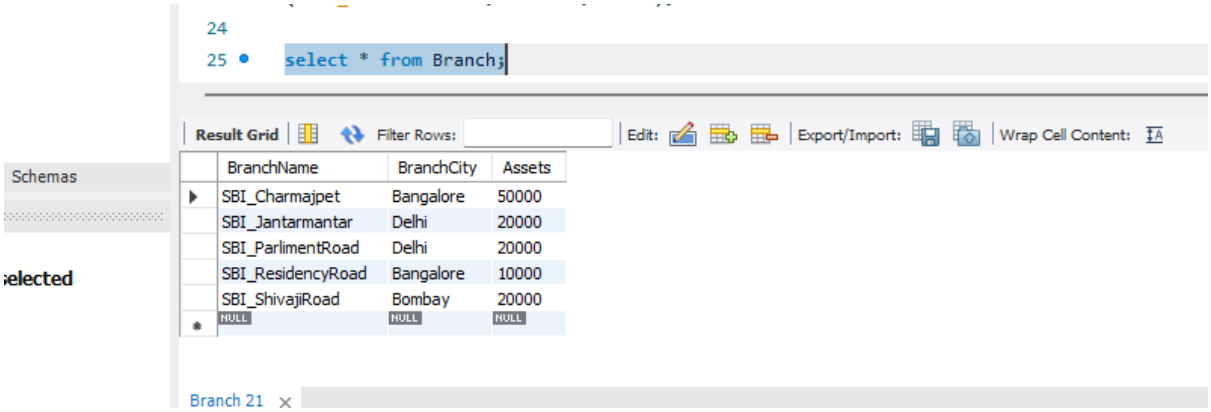
Week-3

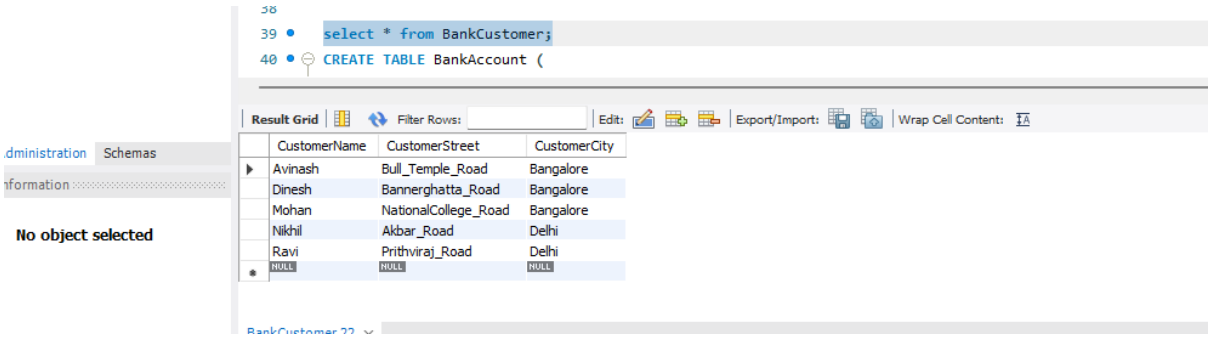
```
CREATE TABLE Branch (
   BranchName VARCHAR(30) PRIMARY KEY,
   BranchCity VARCHAR(20),
   Assets INT
);
```

```
INSERT INTO Branch VALUES
('SBI_Charmajpet', 'Bangalore', 50000),
('SBI_ResidencyRoad', 'Bangalore', 10000),
('SBI_ShivajiRoad', 'Bombay', 20000),
('SBI_ParlimentRoad', 'Delhi', 20000),
('SBI_Jantarmantar', 'Delhi', 20000);
```



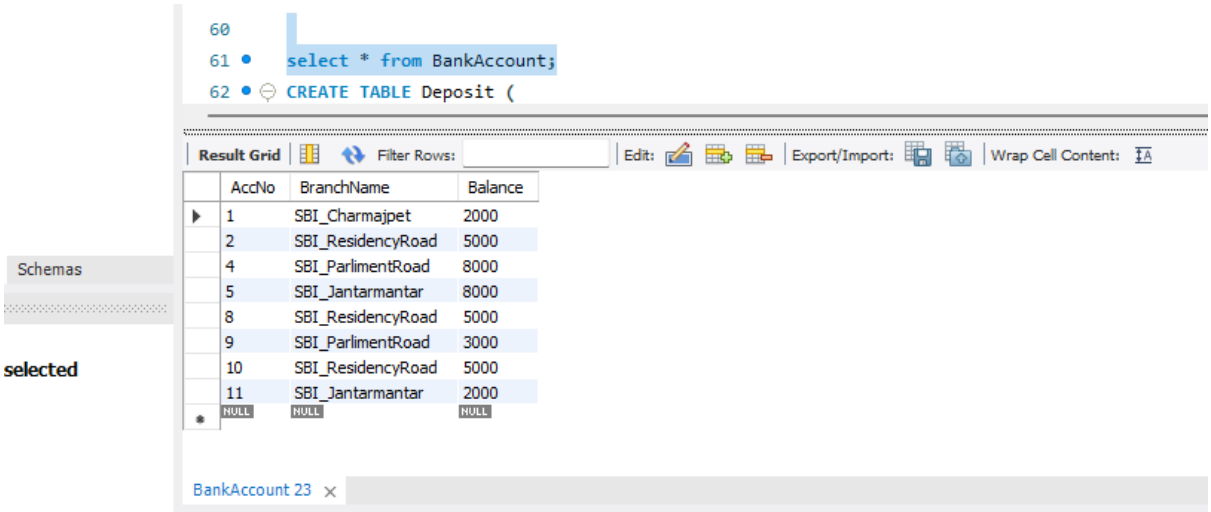

```
CREATE TABLE BankCustomer (
   CustomerName VARCHAR(30) PRIMARY KEY,
   CustomerStreet VARCHAR(30),
   CustomerCity VARCHAR(20)
);
```

```
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');
```




```
CREATE TABLE BankAccount (
   AccNo INT PRIMARY KEY,
   BranchName VARCHAR(30),
   Balance INT,
   FOREIGN KEY (BranchName) REFERENCES Branch(BranchName)
);
```

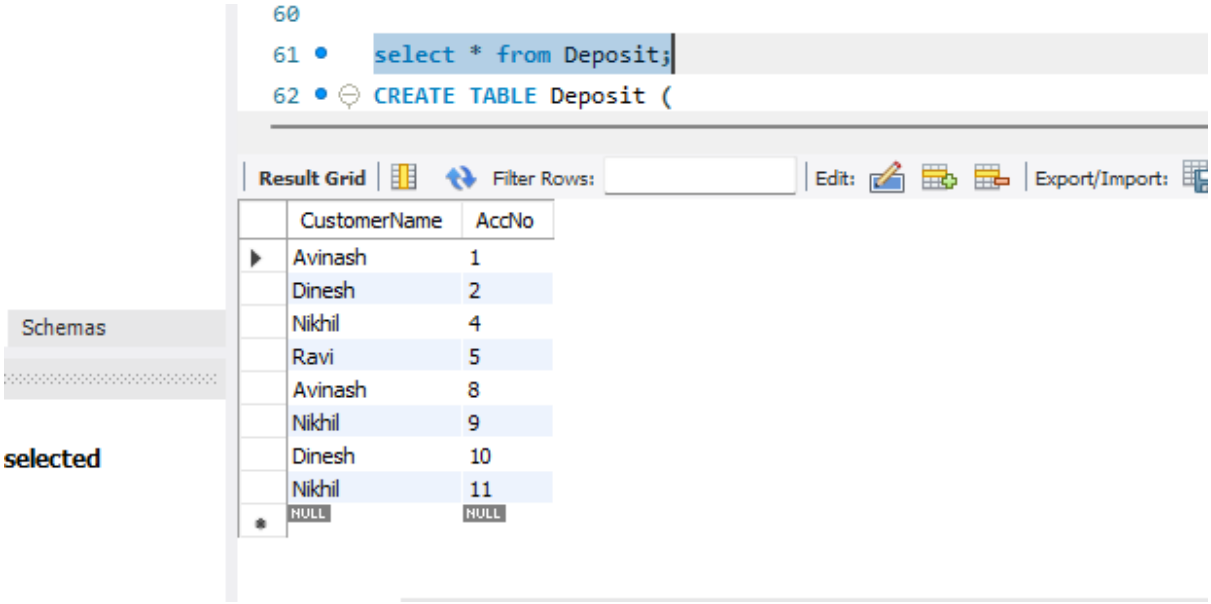
```
INSERT INTO BankAccount VALUES
(1, 'SBI_Charmajpet', 2000),
(2, 'SBI_ResidencyRoad', 5000),
(3, 'SBI_ShivajiRoad', 6000),
(4, 'SBI_ParlimentRoad', 8000),
(5, 'SBI_Jantarmantar', 8000),
(6, 'SBI_ShivajiRoad', 4000),
(8, 'SBI_ResidencyRoad', 5000),
(9, 'SBI_ParlimentRoad', 3000),
(10, 'SBI_ResidencyRoad',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




```
CREATE TABLE Deposit (
   CustomerName VARCHAR(30),
```

```
    AccNo INT,
    PRIMARY KEY (CustomerName, AccNo),
    FOREIGN KEY (CustomerName) REFERENCES BankCustomer(CustomerName),
    FOREIGN KEY (AccNo) REFERENCES BankAccount(AccNo)
);

INSERT INTO Deposit VALUES
('Avinash', 1),
('Dinesh', 2),
('Nikhil', 4),
('Ravi', 5),
('Avinash', 8),
('Nikhil', 9),
('Dinesh', 10),
('Nikhil', 11);
```




```
CREATE TABLE Loan (
    LoanNumber INT PRIMARY KEY,
    BranchName VARCHAR(30),
    Amount INT,
    FOREIGN KEY (BranchName) REFERENCES Branch(BranchName)
);

INSERT INTO Loan VALUES
(1, 'SBI_Charmajpet', 1000),
(2, 'SBI_ResidencyRoad', 2000),
(3, 'SBI_ShivajiRoad', 3000),
(4, 'SBI_ParlimentRoad', 4000),
(5, 'SBI_Jantarmantar', 5000);
```

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

```
98  SELECT BranchName AS 'Branch Name', assets / 100000.0 AS 'Assets in Lakhs'
99  FROM Branch;
100
101
```

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

Branch Name	Assets in Lakhs
SBI_Charmajpet	0.5000
SBI_Jantarmantar	0.2000
SBI_ParlimentRoad	0.2000
SBI_ResidencyRoad	0.1000
SBI_ShivajiRoad	0.2000

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

Dashboard
Performance Reports
Performance Schema Setup

```
103  SELECT d.CustomerName, b.BranchName,
104      COUNT(*) AS num_accounts
105  FROM Deposit d
106  INNER JOIN BankAccount b ON d.AccNo = b.AccNo
107  GROUP BY d.CustomerName, b.BranchName
108  HAVING COUNT(*) >= 2;
109
110
```

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

CustomerName	BranchName	num_accounts
Dinesh	SBI_ResidencyRoad	2
Nikhil	SBI_ParlimentRoad	2

Administration Schemas
Information

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

Dashboard
Performance Reports
Performance Schema Setup

```
112  CREATE VIEW Summary AS
113  SELECT BranchName, SUM(Amount) AS total_loan_amount
114  FROM Loan
115  GROUP BY BranchName;
116  SELECT * FROM Summary;
117
118  SELECT d.CustomerName
119  FROM Deposit d
```

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

BranchName	total_loan_amount
SBI_Charmajpet	1000
SBI_Jantarmantar	5000
SBI_ParlimentRoad	4000
SBI_ResidencyRoad	2000
SBI_ShivajiRoad	3000

Schemas

No object selected