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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_ParlimentRoad', 'Delhi', 10000),  
( 'SBI_JantarMantar', 'Delhi', 20000);
```

```
INSERT INTO BankAccount VALUES  
(1, 'SBI_Chamrajpet', 2000),  
(2, 'SBI_ResidencyRoad', 5000),  
(3, 'SBI_ShivajiRoad', 6000),  
(4, 'SBI_ParlimentRoad', 9000),  
(5, 'SBI_JantarMantar', 8000),  
(6, 'SBI_ShivajiRoad', 4000),  
(8, 'SBI_ResidencyRoad', 4000),  
(9, 'SBI_ParlimentRoad', 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_ParlimentRoad', 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		