

```
CREATE DATABASE Bank1;
```

```
USE Bank1;
```

```
CREATE TABLE 1_Branch (  
    branch_name VARCHAR(100) PRIMARY KEY,  
    branch_city VARCHAR(100),  
    assets INT  
);
```

```
CREATE TABLE 1_Bank_customer (  
    customer_name VARCHAR(100) PRIMARY KEY,  
    customer_street VARCHAR(100),  
    customer_city VARCHAR(100)  
);
```

```
CREATE TABLE 1_loan (  
    loan_no INT,  
    branch_name VARCHAR(100),  
    amount INT,  
    PRIMARY KEY (loan_no, branch_name),  
    FOREIGN KEY (branch_name) REFERENCES 1_Branch(branch_name)  
);
```

```
CREATE TABLE 1_bankaccount (  
    acc_no INT,  
    branch_name VARCHAR(100),  
    balance INT,  
    PRIMARY KEY (acc_no, branch_name),  
    FOREIGN KEY (branch_name) REFERENCES 1_Branch(branch_name)
```

);

```
CREATE TABLE 1_Deposit (  
    customer_name VARCHAR(100),  
    acc_no INT,  
    PRIMARY KEY (customer_name, acc_no),  
    FOREIGN KEY (customer_name) REFERENCES 1_Bank_customer(customer_name),  
    FOREIGN KEY (acc_no) REFERENCES 1_bankaccount(acc_no)  
);
```

```
INSERT INTO 1_Branch VALUES  
("SBI_Chamarajpet", "Bengaluru", 50000),  
("SBI_ResidencyRoad", "Bengaluru", 10000),  
("SBI_ShivajiRoad", "Bombay", 20000),  
("SBI_parlimentRoad", "Delhi", 10000),  
("SBI_JantarMantar", "Delhi", 20000);
```

```
INSERT INTO 1_Bank_customer VALUES  
("Avinash", "Bull_Temple_Road", "Bengaluru"),  
("Dinesh", "Bannerghatta_Road", "Bengaluru"),  
("Mohan", "National_college_Rd", "Bengaluru"),  
("Nikhil", "Akbar_Road", "Delhi"),  
("Ravi", "Prithiviraj_Rd", "Delhi");
```

```
INSERT INTO 1_loan VALUES  
(1, "SBI_Chamarajpet", 1000),  
(2, "SBI_ResidencyRoad", 2000),  
(3, "SBI_ShivajiRoad", 3000),
```

```
(4, "SBI_parlimentRoad", 4000),  
(5, "SBI_JantarMantar", 5000);
```

```
INSERT INTO 1_bankaccount VALUES
```

```
(1, "SBI_Chamarajpet", 2000),  
(2, "SBI_ResidencyRoad", 5000),  
(3, "SBI_ShivajiRoad", 6000),  
(4, "SBI_parlimentRoad", 9000),  
(5, "SBI_JantarMantar", 8000),  
(6, "SBI_ShivajiRoad", 4000),  
(7, "SBI_ResidencyRoad", 4000),  
(8, "SBI_parlimentRoad", 3000),  
(9, "SBI_ResidencyRoad", 5000),  
(10, "SBI_JantarMantar", 2000);
```

```
INSERT INTO 1_Deposit VALUES
```

```
("Avinash", 1),  
("Dinesh", 2),  
("Nikhil", 4),  
("Ravi", 5),  
("Avinash", 8),  
("Nikhil", 9),  
("Dinesh", 10);
```

```
DESC 1_bankaccount;
```

```
SELECT * FROM 1_Branch;
```

Result Grid			
		Filter Rows:	
	branch_name	branch_city	assets
▶	SBI_Chamarajpet	Bengaluru	50000
	SBI_JantarMantar	Delhi	20000
	SBI_parlimentRoad	Delhi	10000
	SBI_ResidencyRoad	Bengaluru	10000
	SBI_ShivajiRoad	Bombay	20000
*	NULL	NULL	NULL

SELECT \* FROM 1\_Bank\_customer;

Result Grid			
		Filter Rows:	
	customer_name	customer_street	customer_city
▶	Avinash	Bull_Temple_Road	Bengaluru
	Dinesh	Bannerghatta_Road	Bengaluru
	Mohan	National_college_Rd	Bengaluru
	Nikhil	Akbar_Road	Delhi
	Ravi	Prithviraj_Rd	Delhi
*	NULL	NULL	NULL

SELECT \* FROM 1\_bankaccount;

Result Grid			
		Filter Rows:	
	acc_no	branch_name	balance
▶	1	SBI_Chamarajpet	2000
	2	SBI_ResidencyRoad	5000
	4	SBI_parlimentRoad	9000
	5	SBI_JantarMantar	8000
	7	SBI_ResidencyRoad	4000
	8	SBI_parlimentRoad	3000
	9	SBI_ResidencyRoad	5000
	10	SBI_JantarMantar	2000
*	NULL	NULL	NULL

SELECT \* FROM 1\_Deposit;

Result Grid		
		Filter Rows:
	customer_name	acc_no
▶	Avinash	1
	Dinesh	2
	Nikhil	4
	Ravi	5
	Avinash	8
	Nikhil	9
	Dinesh	10
*	NULL	NULL

```
SELECT branch_name, assets * 10 AS assets_in_lakhs FROM 1_Branch;
```

Result Grid		
Filter Rows:		
	branch_name	assets_in_lakhs
▶	SBI_Chamarajpet	500000
	SBI_JantarMantar	200000
	SBI_parliamentRoad	100000
	SBI_ResidencyRoad	100000
	SBI_ShivajiRoad	200000

```
SELECT d.customer_name
FROM 1_bankaccount b
JOIN 1_Deposit d ON b.acc_no = d.acc_no
WHERE b.branch_name = "SBI_ResidencyRoad";
```

Result Grid	
Filter	
	customer_name
▶	Dinesh
	Nikhil

```
CREATE VIEW 1_summary AS
SELECT branch_name, SUM(amount) AS total_loan_amount
FROM 1_loan
GROUP BY branch_name;
```

```
SELECT b.customer_name
FROM 1_Deposit b
JOIN 1_bankaccount a ON b.acc_no = a.acc_no
JOIN 1_loan c ON a.branch_name = c.branch_name
WHERE a.branch_name IN (
    SELECT branch_name FROM 1_Branch WHERE branch_city = "Bengaluru"
);
```

Result Grid	
	customer_name
▶	Avinash
	Dinesh
	Nikhil

```

SELECT branch_name, assets
FROM 1_Branch
WHERE assets > ALL (
    SELECT assets FROM 1_Branch WHERE branch_city = "Bengaluru"
);

```

```

DELETE FROM 1_bankaccount
WHERE branch_name IN (
    SELECT branch_name FROM 1_Branch WHERE branch_city = "Bombay"
);

```

```

UPDATE 1_bankaccount
SET balance = balance * 0.5;

```