**Week 3**

create database 1bm21cs037\_bank;

use 1bm21cs037\_bank;

create table Branch(

Branch\_name varchar(20) primary key,

Branch\_city varchar(20),

Assets int

);

create table BankAccount(

Accno int,

Branch\_name varchar(20),

Balance int,

primary key(Accno),

foreign key (Branch\_name) references branch(Branch\_name)

);

create table Depositor(

Customer\_name varchar(20),

Accno int,

primary key(Customer\_name,Accno),

foreign key (Accno) references BankAccount(Accno),

foreign key (Customer\_name) references BankCustomer(Customer\_name)

);

create table BankCustomer(

Customer\_name varchar(20),

Customer\_street varchar (20),

City varchar (20),

primary key(Customer\_name)

);

create table Loan(

Loan\_number int primary key,

Branch\_name varchar(20),

Amount int,

foreign key (Branch\_name) references Branch(Branch\_name)

);

insert into Branch values('SBI\_Chamrajpet','Bangalore',50000);

insert into Branch values('SBI\_ResidencyRoad','Bangalore',10000);

insert into Branch values('SBI\_ShivajiRoad','Bombay',20000);

insert into Branch values('SBI\_ParliamentRoad','Delhi',10000);

insert into Branch values('SBI\_Jantarmantar','Delhi',20000);

insert into BankAccount values (1,'SBI\_Chamrajpet',2000);

insert into BankAccount values (2,'SBI\_ResidencyRoad',5000);

insert into BankAccount values (3,'SBI\_ShivajiRoad',6000);

insert into BankAccount values (4,'SBI\_ParliamentRoad',9000);

insert into BankAccount values (5,'SBI\_Jantarmantar',8000);

insert into BankAccount values (6,'SBI\_ShivajiRoad',4000);

insert into BankAccount values (8,'SBI\_ResidencyRoad',4000);

insert into BankAccount values (9,'SBI\_ParliamentRoad',3000);

insert into BankAccount values (10,'SBI\_ResidencyRoad',5000);

insert into BankAccount values (11,'SBI\_Jantarmantar',2000);

insert into Depositor values ('Avinash',1);

insert into Depositor values ('Dinesh',2);

insert into Depositor values ('Nikil',4);

insert into Depositor values ('Ravi',5);

insert into Depositor values ('Avinash',8);

insert into Depositor values ('Nikil',9);

insert into Depositor values ('Dinesh',10);

insert into Depositor values ('Nikil',11);

insert into BankCustomer values ('Avinash','Bull\_Temple\_Road','Bangalore');

insert into BankCustomer values ('Dinesh','Bannergatta\_Road','Bangalore');

insert into BankCustomer values ('Mohan','NationalCollege\_Road','Bangalore');

insert into BankCustomer values ('Nikil','Akbar\_Road','Delhi');

insert into BankCustomer values ('Ravi','Prithviraj\_Road','Delhi');

insert into Loan values (1,'SBI\_Chamrajpet',1000);

insert into Loan values (2,'SBI\_ResidencyRoad',2000);

insert into Loan values (3,'SBI\_ShivajiRoad',3000);

insert into Loan values (4,'SBI\_ParliamentRoad',4000);

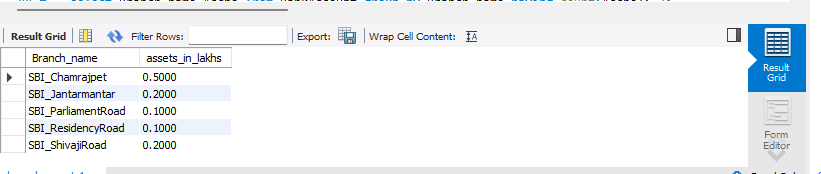
insert into Loan values (5,'SBI\_Jantarmantar',5000);

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

create view branch\_asset(Branch\_name,assets\_in\_lakhs)

as select Branch\_name,Assets/100000 from Branch;

select \* from branch\_asset;



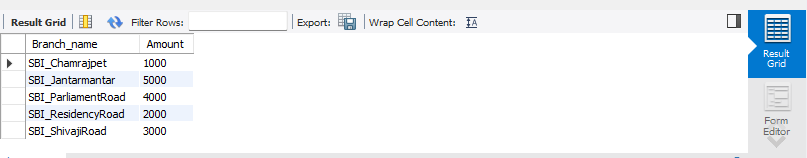
2. CREATE A VIEW WHICH GIVES EACH BRANCH THE SUM OF THE AMOUNT OF ALL THE LOANS AT THE BRANCH.

create view loans(Branch\_name,Amount)

as select Branch\_name,sum(Amount) from Loan

group by Branch\_name;

select \* from loans;

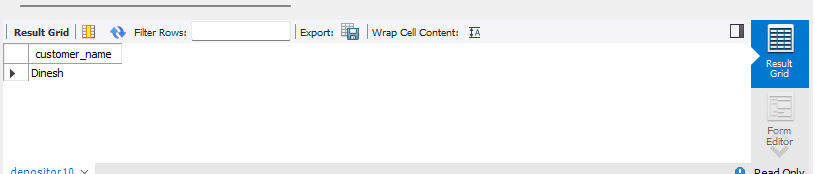


3.Find all the customers who have at least two accounts at the *same* branch (ex. SBI\_ResidencyRoad).

select customer\_name from depositor where accno in

(select accno from bankAccount where branch\_name like '%Resi%')

group by customer\_name having count(customer\_name)>=2;

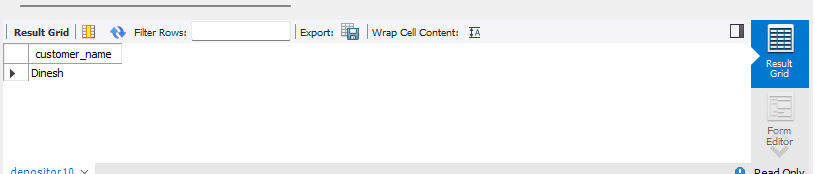


4. Find all the customers who have at least two deposits at the same branch

select customer\_name from depositor where accno in

(select accno from bankAccount where branch\_name like '%Resi%')

group by customer\_name having count(customer\_name)>=2;



5.update rs 1000 for the customers residing in bangalore

select CONCAT(Balance+1000,' rupees') UPDATED\_BALANCE from bankAccount b, bankCustomer bc, depositor d

where bc.Customer\_name=d.Customer\_name and b.Accno=d.Accno and bc.city='Bangalore';

