WEEK 3 – BANK DATABASE

**Create the above tables by properly specifying the primary keys and the foreign**

**keys.**

create database dhiksha\_bank;

use dhiksha\_bank;

create table dhiksha\_bank.branch(

Branch\_name varchar(30),

Branch\_city varchar(25),

assets int,

PRIMARY KEY (Branch\_name)

);

create table dhiksha\_bank.BankAccount(

Accno int,

Branch\_name varchar(30),

Balance int,

PRIMARY KEY(Accno),

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

);

create table dhiksha\_bank.BankCustomer(

Customername varchar(20),

Customer\_street varchar(30),

CustomerCity varchar (35),

PRIMARY KEY(Customername)

);

create table dhiksha\_bank.Depositer(

Customername varchar(20),

Accno int,

PRIMARY KEY(Customername,Accno),

foreign key (Accno) references BankAccount(Accno),

foreign key (Customername) references BankCustomer(Customername)

);

create table dhiksha\_bank.Loan(

Loan\_number int,

Branch\_name varchar(30),

Amount int,

PRIMARY KEY(Loan\_number),

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

);

**Enter at least five tuples for each relation.**

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\_ParlimentRoad","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\_ParlimentRoad",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\_ParlimentRoad",3000);

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

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

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 Depositer values("Avinash",1);

insert into Depositer values("Dinesh",2);

insert into Depositer values("Nikil",4);

insert into Depositer values("Ravi",5);

insert into Depositer values("Avinash",8);

insert into Depositer values("Nikil",9);

insert into Depositer values("Dinesh",10);

insert into Depositer values("Nikil",11);

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

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

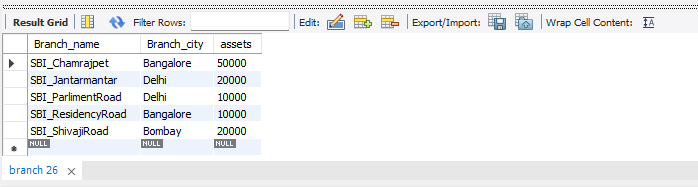
insert into Loan values(3,"SBI\_ShivajiRoad",3000);

insert into Loan values(4,"SBI\_ParlimentRoad",4000);

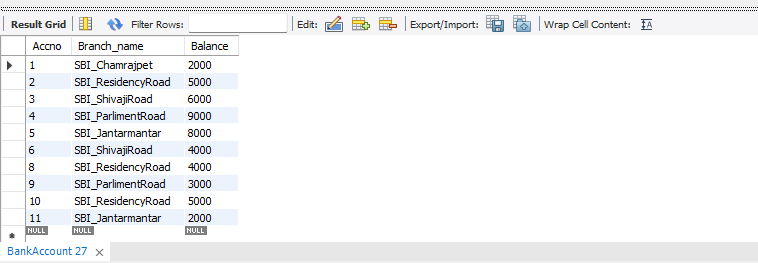
insert into Loan values(5,"SBI\_Jantarmantar",5000);

**Select from table (SELECTION)**

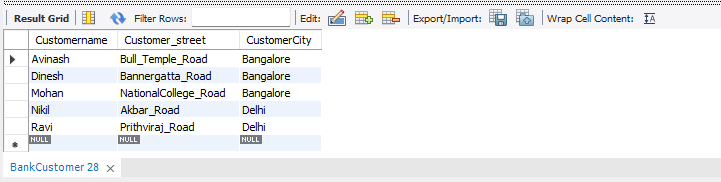
select \* from branch;



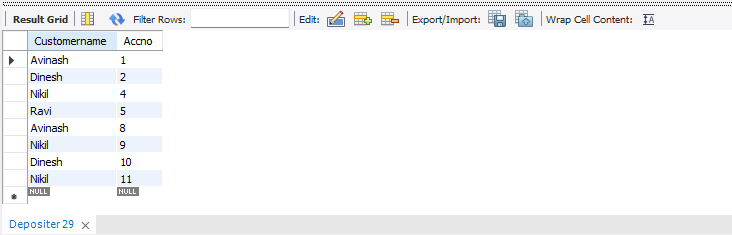
select \* from BankAccount;

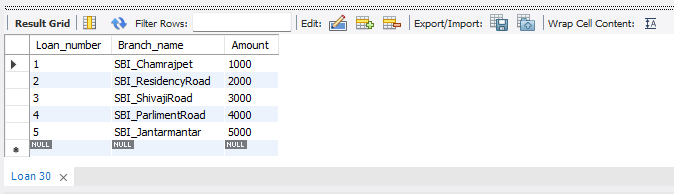


select \* from BankCustomer;



select \* from Depositer;

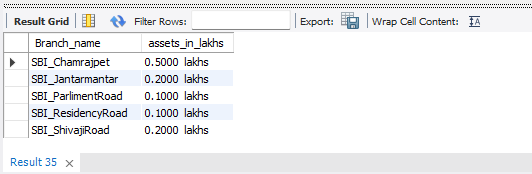


select \* from Loan;

**QUERIES- TO DO:**

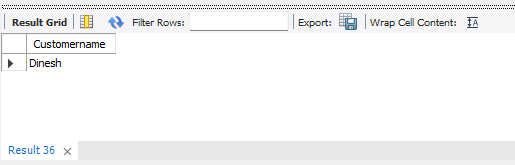
* **Display the branch name and assets from all branches in lakhs of rupees and rename the assets column to 'assets in lakhs'.**

select Branch\_name, CONCAT(assets/100000,' lakhs')assets\_in\_lakhs from branch;



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

select d.Customername from Depositer d, BankAccount b where b.Branch\_name='SBI\_ResidencyRoad' and d.Accno=b.Accno group by d.Customername having count(d.Accno)>=2;



* **Create a view which gives each branch the sum of the amount of all the loans at the branch.**

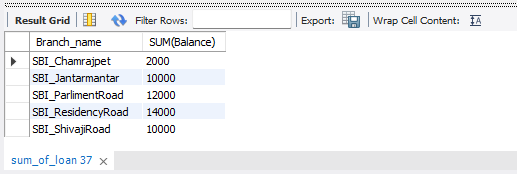
create view sum\_of\_loan

as select Branch\_name, SUM(Balance)

from BankAccount

group by Branch\_name;

select \* from sum\_of\_loan;



**SPOT QUERY:**

**UPDATE OR ADD RUPEES 1000 TO ACCOUNT BALANCE FOR THE CUSTOMERS WHO ARE RESIDING IN BANGALORE.**

select bc.Customername, CONCAT(Balance+1000,' rupees') UPDATED\_BALANCE from BankAccount b, BankCustomer bc, Depositer d where bc.Customername=d.Customername and b.Accno=d.Accno and bc.Customercity='Bangalore';

