**WEEK 4 – MORE QUERIES ON BANK DATABASE**

**Create Borrower table by specifying the primary keys and foreign keys.**

create table Borrower(

Customername varchar(20),

Loan\_number int,

foreign key(Customername) references BankCustomer(Customername),

foreign key(Loan\_number) references Loan(Loan\_number)

);

**Insert values into the Borrower table. (INSERTION)**

insert into Borrower values("Avinash",1);

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

insert into Borrower values("Mohan",3);

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

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

**Extra insert queries.**

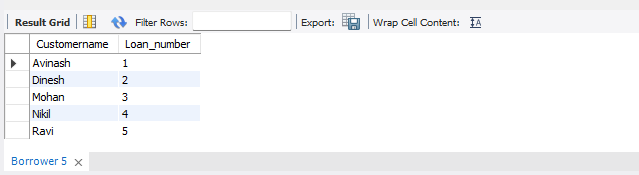
insert into branch values("SBI\_MantriMarg","Delhi",200000);

insert into BankAccount values(12,"SBI\_MantriMarg",2000);

insert into Depositer values("Nikil",12);

**Select new table. (SELECTION)**

select \* from Borrower;

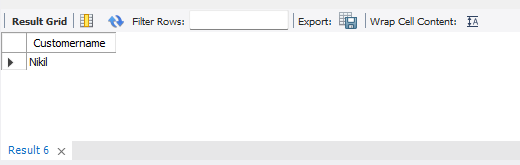


**QUERIES**

1. **Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi).**

select d.Customername from branch b, Depositer d, BankAccount ba where

b.Branch\_city='Delhi' and d.Accno=ba.Accno and b.Branch\_name=ba.Branch\_name

group by d.Customername having count(distinct b.Branch\_name)= (select count(distinct b.Branch\_name) from branch b where b.Branch\_city='Delhi’;

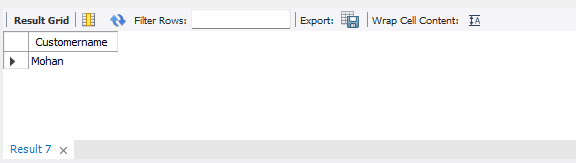
1. **Find all customers who have a loan at the bank but do not have an account.**

select distinct b.Customername from Borrower b, Depositer d

where b.Customername NOT IN(

select d.Customername from Loan l,Depositer d, Borrower b

where l.Loan\_number=b.Loan\_number and d.Customername=b.Customername

);

1. **Find all customers who have both an account and a loan at the Bangalore branch.**

select distinct d.Customername from Depositer d

where d.Customername IN(

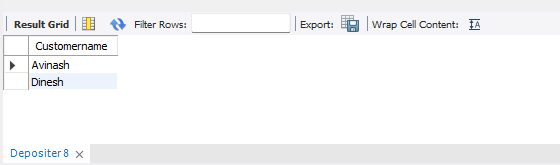
select d.Customername from branch br,Depositer d, BankAccount ba

where br.Branch\_city='Bangalore' and br.Branch\_name=ba.Branch\_name

and ba.accno=d.accno and Customername IN(

select Customername from Borrower)

);



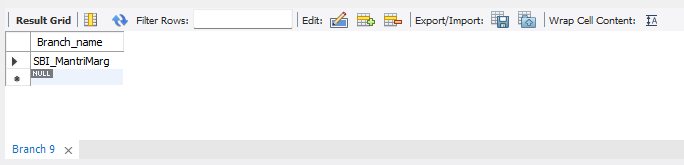
1. **Find the names of all branches that have greater assets than all branches located in Bangalore.**

select b.Branch\_name from Branch b

where b.assets> ALL (

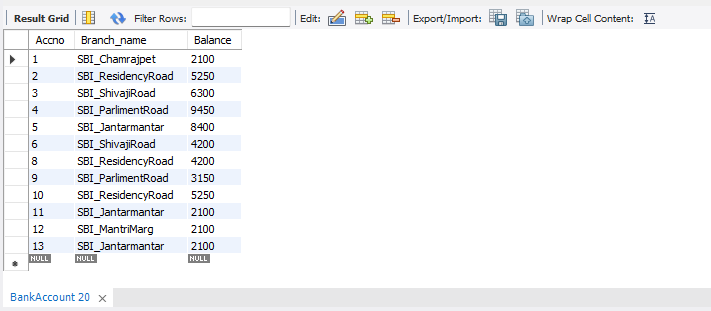
select SUM(b.assets) from Branch b

where b.Branch\_City='Bangalore' );



1. **Update the Balance of all accounts by 5%**

UPDATE BankAccount set Balance=(Balance + (Balance\*0.05));



1. **Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).**

delete ba.\* from BankAccount ba, branch b where branch\_city='Bombay' and ba.Branch\_name=b.Branch\_name;

select \* from BankAccount;

