WEEK 4 – QUERIES - BANK DATABASE

```
create table Borrower(
Customername varchar(20),
Loan_number int,
foreign key(Customername) references BankCustomer(Customername),
foreign key(Loan_number) references Loan(Loan_number)
);
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);
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;

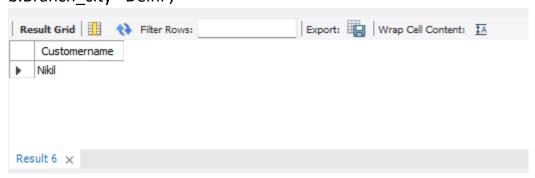
1. Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi).

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';



2.

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 I,Depositer d, Borrower b

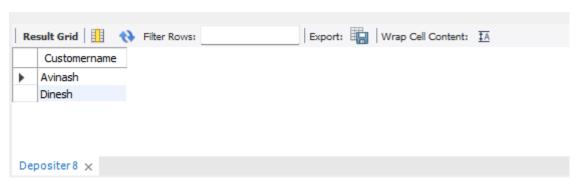
where I.Loan_number=b.Loan_number and d.Customername=b.Customername



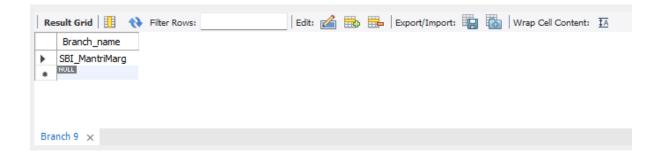
3. Find all customers who have both an account and a loan at the Bangalore branch.

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)

);

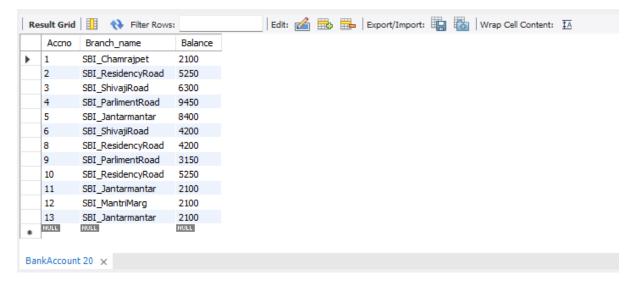


4. Find the names of all branches that have greater assets than all branches located in Bangalore.



5. Update the Balance of all accounts by 5%

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



6. <u>Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).</u>

delete ba.* from BankAccount ba, branch b where branch city='Bombay' and ba.Branch name=b.Branch name;

select * from BankAccount;

