Week-4

insert into bankaccount values(12,"SBI_MatriMarg",2000);

insert into branch values("SBI_MatriMarg","Delhi",200000);

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

create table borrower(customername varchar(50), loannumber int,

foreign key(customername) references
bankcustomer(customername),

foreign key(loannumber) references loan(loannumber));

insert into borrower
values("Avinash",1),("Dinesh",2),("Mohan",3),("Nikil",4),("Ravi",5);

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.branchcity='Delhi' and d.accno=ba.accno and
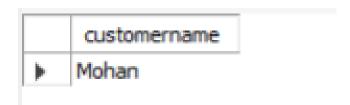b.branchname=ba.branchname

group by d. customername having count(customername)>1;

2.Find all customers who have a loan at the bank but do not have

n 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.loannumber=b.loannumber and

d.customername=b.customername);

	customername
▶	Mohan

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.branchcity="Banglore" and
br.branchname=ba.branchname

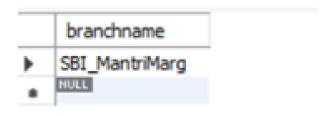 and ba.accno=d.accno and d.customername in(

select customername from borrower));

	customername
▶	Avinash
	Dinesh

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

branches located in Bangalore.

select b.branchname from branch b

where b.assets> all (

select sum(b.assets) from branch b

where b.branchcity='Banglore');

	branchname
▶	SBI_MantriMarg
*	NULL

5. Update the Balance of all accounts by 5%

update bankaccount set balance=(balance+(balance*0.05));

 select * from bankaccount;

	accno	branchname	balance
▶	1	SBI_Chamrajpet	2100
	2	SBI_ResidencyRoad	5250
	3	SBI_ShivajiRoad	6300
	4	SBI_ParlimentRoad	9450
	5	SBI_Jantarmantar	8400
	6	SBI_ShivajiRoad	4200
	8	SBI_ResidencyRoad	4200
	9	SBI_ParlimentRoad	3150
	10	SBI_ResidencyRoad	5250
	11	SBI_Jantarmantar	2100
	12	SBI_MatriMarg	2100
*	NULL	NULL	NULL

6. 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 branchcity='Bombay' and

ba.branchname=b.branchname;

select * from bankaccount;

accno	branchname	balance
1	SBI_Chamrajpet	2100
2	SBI_ResidencyRoad	5250
4	SBI_ParlimentRoad	9450
5	SBI_Jantarmantar	8400
8	SBI_ResidencyRoad	4200
9	SBI_ParlimentRoad	3150
10	SBI_ResidencyRoad	5250
11	SBI_Jantarmantar	2100
12	SBI_MatriMarg	2100
NULL	NULL	NULL

7. Demonstrate how to delete branches located in banglore(spot query)

delete b.*,ba.* from branch b, bankaccount ba,loan l

Where b.branchcity="Banglore" and b.branchname=ba.branchname

And l.branchname=ba.branchname;

select * from branch;

select * from bankaccount;

select * from loan

branchname	branchcity	assets
SBI_Jantarmantar	Delhi	20000
SBI_MatriMarg	Delhi	200000
SBI_ParlimentRoad	Delhi	10000
SBI_ShivajiRoad	Bombay	20000
NULL	NULL	NULL

accno	branchname	balance
4	SBI_ParlimentRoad	9450
5	SBI_Jantarmantar	8400
9	SBI_ParlimentRoad	3150
11	SBI_Jantarmantar	2100
12	SBI_MatriMarg	2100
NULL	NULL	NULL

loannumber	branchname	amount
3	SBI_ShivajiRoad	3000
4	SBI_ParlimentRoad	4000
5	SBI_Jantarmantar	5000
NULL	NULL	NULL