Week-4

```
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;
```

customername
Nikil

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 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) 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

6) Update the Balance of all accounts by 5%

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

select * from bankaccount;

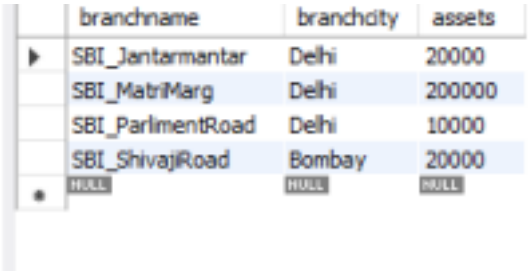
accno	branchname	balance
1	SBI_Chamrajpet	2100
2	SBI_ResidencyRoad	5250
3	SBI_ShivajiRoad	6300
4	SBI_ParlimentRoad	9450
5	SBI_Jantarmantar	8400
6	SBI_ShivajiRoad	4200
8	SBI_ResidencyRoad	4200
9	SBI_ParlimentRoad	3150
10	SBI_ResidencyRoad	5250
11	SBI_Jantarmantar	2100
12	SBI_MatriMarg	2100
NULL	NULL	NULL

bankaccount 15 ×

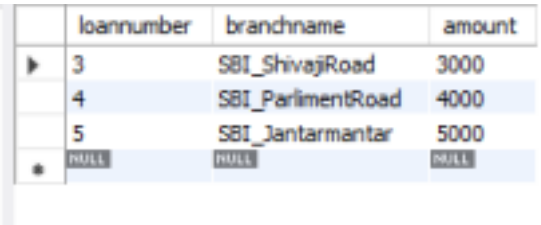
7) Demonstrate how to delete branches located in bangalore

delete b.*,ba.* from branch b, bankaccount ba,loan l
Where b.branchcity=”Banglore” and b.branchname=ba.branchname
And l.branchname=ba.branchname;

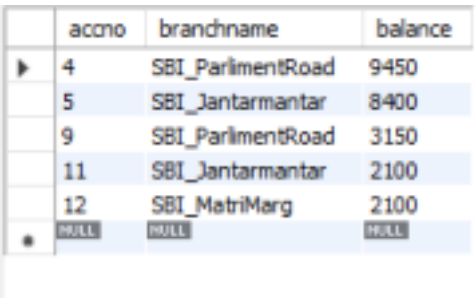
select * from branch;
select * from bankaccount;
select * from loan;



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



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

Spot query

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

update branch set assets=90000 where branch_name="SBI_ParliamentRoad";
select branch_name
from branch
where assets>(select sum(assets) from branch where
branch_city="Bangalore");