Week-3

(Creating database)

```
create database bank;
use bank;
```

(Creating tables)

```
create table branch
( branchname varchar(50), branchcity varchar(50), assets int,
  primary key(branchname) );

  create table bankaccount
  ( accno int, branchname varchar(50), balance int,
  primary key(accno),
foreign key(branchname) references branch(branchname));


create table bankcustomer
(customername varchar(50), customerstreet varchar(50), city varchar(50),
 primary key(customername));

create table depositer
( customername varchar(50), accno int,
  primary key(accno),
  foreign key(accno) references bankaccount(accno),
  foreign key(customername) references bankcustomer(customername));

create table loan
(  loannumber int, branchname varchar(50), amount int,
```

```
  foreign key(branchname) references branch(branchname));
```

(Inserting values in table)

```
insert into branch values("SBI_Chamrajpet","Banglore",50000);
insert into branch values("SBI_ResidencyRoad","Banglore",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","Banglore");
insert into bankcustomer values("Dinesh","Bannergatta_Road","Banglore");
insert into bankcustomer values("Mohan","NationalCollege_Road","Banglore");
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);

(Displaying Tables)

select * from branch;

branchname	branchcity	assets
SBI_Chamrajpet	Banglore	50000
SBI_Jantarmantar	Delhi	20000
SBI_ParlimentRoad	Delhi	10000
SBI_ResidencyRoad	Banglore	10000
SBI_ShivajiRoad	Bombay	20000
NULL	NULL	NULL

select * from bankaccount;

accno	branchname	balance
1	SBI_Chamrajpet	2000
2	SBI_ResidencyRoad	5000
3	SBI_ShivajiRoad	6000
4	SBI_ParlimentRoad	9000
5	SBI_Jantarmantar	8000
6	SBI_ShivajiRoad	4000
8	SBI_ResidencyRoad	4000
9	SBI_ParlimentRoad	3000
10	SBI_ResidencyRoad	5000
11	SBI_Jantarmantar	2000
NULL	NULL	NULL

select * from bankcustomer;

customername	customerstreet	city
Avinash	Bull_Temple_Road	Banglore
Dinesh	Bannergatta_Road	Banglore
Mohan	NationalCollege_Road	Banglore
Nikil	Akbar_Road	Delhi
Ravi	Prithviraj_Road	Delhi
NULL	NULL	NULL

select * from depositer;

customername	accno
Avinash	1
Avinash	8
Dinesh	2
Dinesh	10
Nikil	4
Nikil	9
Nikil	11
Ravi	5
NULL	NULL

select * from loan;

loannumber	branchname	amount
1	SBI_Chamrajpet	1000
2	SBI_ResidencyRoad	2000
3	SBI_ShivajiRoad	3000
4	SBI_ParlimentRoad	4000
5	SBI_Jantarmantar	5000

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

select branchname,assets/100000 as assets_in_lakkhs from branch;

branchname	assets_in_lakkhs
SBI_Chamrajpet	0.5000
SBI_Jantarmantar	0.2000
SBI_ParlimentRoad	0.1000
SBI_ResidencyRoad	0.1000
SBI_ShivajiRoad	0.2000

- **Find all the customers who have at least two accounts at the same branch (ex. SBI_ResidencyRoad).**

select d.customername from bankaccount b, depositer d

where b.branchname="SBI_ResidencyRoad" and b.accno=d.accno

group by d.customername having count(d.accno)>=2;

customername
Dinesh

- **Create view which gives each branch the sum of the ammount of all the loans at the branch**

create view sum_of_loan

as select branchname,sum(balance)

from bankaccount

group by branchname;

select * from sum_of_loan;

branchname	sum(balance)
SBI_Chamrajpet	2000
SBI_Jantarmantar	10000
SBI_ParlimentRoad	12000
SBI_ResidencyRoad	14000
SBI_ShivajiRoad	10000