

Week-3

(Cereating 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_Jantarmanatar","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_Jantarmanatar",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_Jantarmanatar",2000);

insert into bankcustomer values("Avinash","Bull_Temple_Road","Banglore");

insert into bankcustomer values("Dinesh","Bannerghatta_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_lakhs from branch;

	branchname	assets_in_lakhs
▶	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