WEEK3

BANKDATABASE

```
create database Bank253;
use Bank253;
create table Branch(
Branch_name varchar(25),
Branch_city varchar(15),
Assets float,
primary key(Branch_name));

create table Bank_account(
Accno int,
 Branch_name varchar(25),
Balance float,
primary key(Accno),
foreign key(Branch_name) references Branch(Branch_name) on delete cascade on update cascade);

create table Bank_customer(
Customer_name varchar(20),
Customer_street varchar(20),
Customer_city varchar(10),
primary key(Customer_name));

create table Depositor(
Customer_name varchar(20),
Accno int,
primary key(Customer_name,Accno),
foreign key(Customer_name) references Bank_customer(Customer_name) on delete cascade on update cascade,
foreign key(Accno) references Bank_account(Accno) on delete cascade on update cascade);
```

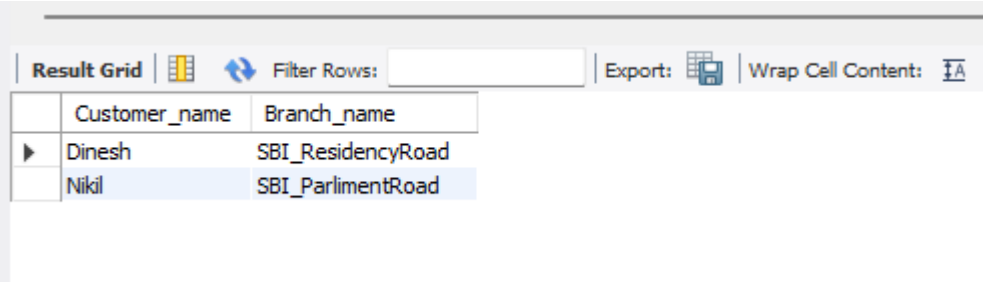
```
create table Loan(

Loan_number int,

Branch_name varchar(30),

Ammount float,

primary key(Loan_number),

foreign key(Branch_name) references Branch(Branch_name) on delete cascade on update cascade);


insert into Branch values
('SBI_Chamrajpet','Bangalore',50000),('SBI_ResidencyRoad','Bangalore',10000),('SBI_ShivajiRoad','Bombay',20000),('SBI_ParlimentRoad','Delhi',10000),

('SBI_Jantarmantar','Delhi',20000);


insert into Bank_account values

(1,'SBI_Chamrajpet',2000),(2,'SBI_ResidencyRoad',5000),(3,'SBI_ShivajiRoad',6000),(4,'SBI_Parliment Road',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);


insert into Bank_customer values
('Avinash','Bull_Temple_Road','Bangalore'),('Dinesh','Bannerghatta_Road','Bangalore'),('Mohan','NationalCollege_Road','Bangalore'),

('Nikil','Akbar_Road','Delhi'),('Ravi','Prithviraj_Road','Delhi');


insert into Depositor values
('Avinash',1),('Dinesh',2),('Nikil',4),('Ravi',5),('Avinash',8),('Nikil',9),('Dinesh',10),('Nikil',11);


insert into Loan values
(1,'SBI_Chamrajpet',1000),(2,'SBI_ResidencyRoad',2000),(3,'SBI_ShivajiRoad',3000),(4,'SBI_Parliment Road',4000),(5,'SBI_Jantarmantar',5000);
```

QUERY 1

Find all the customers who have at least two accounts at the same branch

```
select Customer_name,Branch_name from depositor d
inner join Bank_account b on d.Accno=b.Accno
group by Customer_name,Branch_name
having count(*)>=2;
```

OUTPUT



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

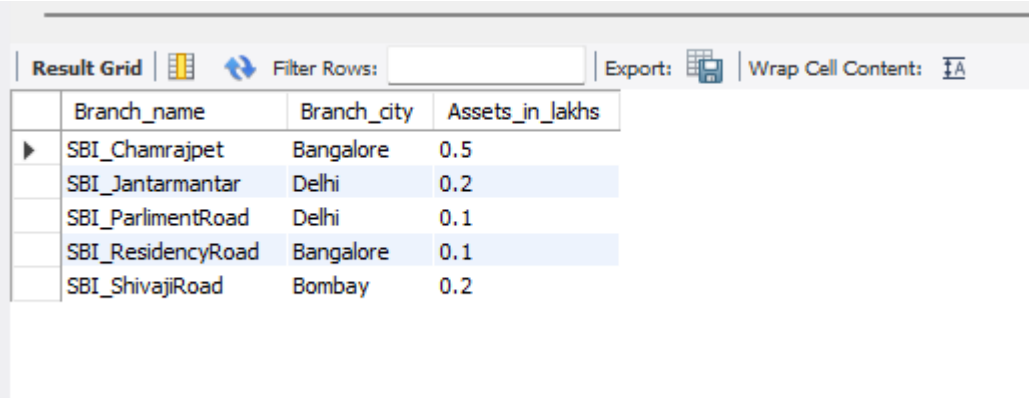
Customer_name	Branch_name
Dinesh	SBI_ResidencyRoad
Nikil	SBI_ParlimentRoad

QUERY 2

Display the branch name and assets from all branches in lakshs of rupees and rename the assets column to 'assets in lakshs'

```
select Branch_name, Branch_city, (Assets_in_lakhs/100000) Assets_in_lakhs from Branch;
```

OUTPUT



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Branch_name	Branch_city	Assets_in_lakhs
SBI_Chamrajpet	Bangalore	0.5
SBI_Jantarmantar	Delhi	0.2
SBI_ParlimentRoad	Delhi	0.1
SBI_ResidencyRoad	Bangalore	0.1
SBI_ShivajiRoad	Bombay	0.2

QUERY 3

Create a view which gives each branch the sum of the amount of all the loans at the branch.

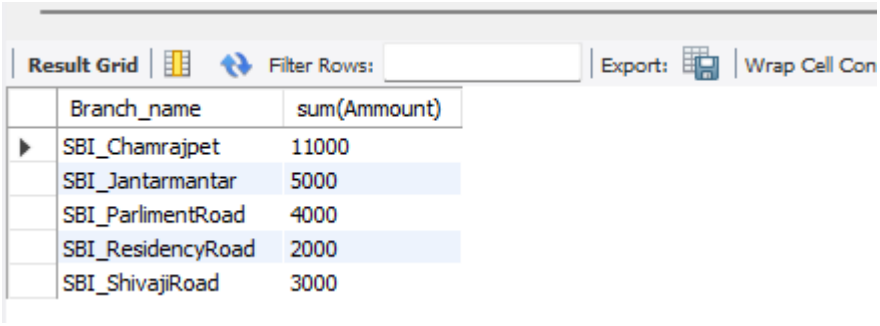
```
insert into Loan values(6,'SBI_Chamrajpet',10000);
create view Loan_sum
as
select Branch_name, sum(Ammount)
```

from Loan

group by Branch_name;

select * from Loan_sum;

OUTPUT



Branch_name	sum(Ammount)
SBI_Chamrajpet	11000
SBI_Jantarmantar	5000
SBI_ParlimentRoad	4000
SBI_ResidencyRoad	2000
SBI_ShivajiRoad	3000