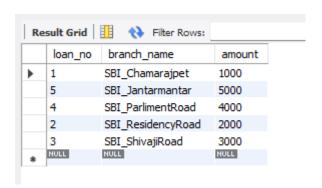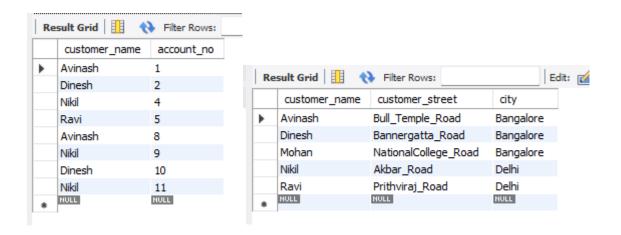# BANK DATABASE

1BM21CS231

```
create database bank;

use bank;


create table branch(

name varchar(20) primary key,

city varchar(20),

assets real);


create table bank_Account(

account_no int,

branch_name varchar(20) , balance real,

primary key(account_no,branch_name),

foreign key(branch_name) references branch(name));


create table customer(

customer_name varchar(20),

customer_street varchar(20),

city varchar(20));

alter table customer

add primary key(customer_name);

create table depositor(

customer_name varchar(20),

account_no int,

primary key(customer_name,account_no),

foreign key(customer_name) references customer(customer_name) on delete cascade,

foreign key(account_no) references bank_account(account_no) on delete cascade);

create table loan(

loan_no int , branch_name varchar(20) primary key,amount real,
```
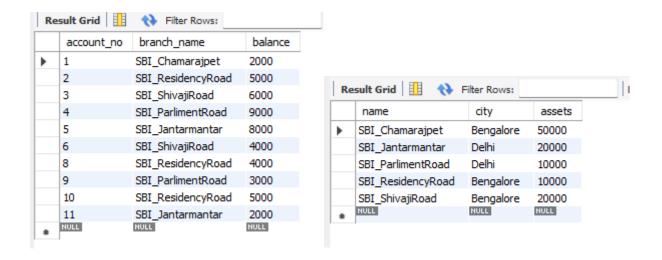
```sql
foreign key(branch_name) references branch(name));
select *from customer;
insert into branch values ('SBI_Chamarajpet','Bengalore',50000);
insert into branch values('SBI_ResidencyRoad','Bengalore',10000);
insert into branch values('SBI_ShivajiRoad','Bengalore',20000);

insert into branch values('SBI_ParlimentRoad','Delhi',10000);
insert into branch values('SBI_Jantarmantar','Delhi',20000);
insert into bank_account values (1,'SBI_Chamarajpet',2000);
insert into bank_account values(2,'SBI_ResidencyRoad',5000);
insert into bank_account values(3,'SBI_ShivajiRoad',6000);
insert into bank_account values(4,'SBI_ParlimentRoad',9000);
insert into bank_account values(5,'SBI_Jantarmantar',8000);
insert into bank_account values(6,'SBI_ShivajiRoad',4000);
insert into bank_account values(8,'SBI_ResidencyRoad',4000);
insert into bank_account values(9,'SBI_ParlimentRoad',3000);
insert into bank_account values(10,'SBI_ResidencyRoad',5000);
insert into bank_account values(11,'SBI_Jantarmantar',2000);
insert into customer values ('Avinash','Bull_Temple_Road','Bangalore');

insert into customer values('Dinesh','Bannergatta_Road','Bangalore');
insert into customer values('Mohan','NationalCollege_Road','Bangalore');
insert into customer values('Nikil','Akbar_Road','Delhi');
insert into customer values('Ravi','Prithviraj_Road','Delhi');
insert into depositor values('Avinash',1);
insert into depositor values('Dinesh',2);
insert into depositor values('Nikil',4);
insert into depositor values('Ravi',5);
insert into depositor values('Avinash',8);
insert into depositor values('Nikil',9);
insert into depositor values('Dinesh',10);
```

insert into depositor values('Nikil',11);

insert into loan values(1,'SBI_Chamarajpet',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);

select * from loan;

select * from depositor;

select * from customer;

select * from bank_account;

select * from branch;

loan_no	branch_name	amount
1	SBI_Chamarajpet	1000
5	SBI_Jantarmantar	5000
4	SBI_ParlimentRoad	4000
2	SBI_ResidencyRoad	2000
3	SBI_ShivajiRoad	3000
NULL	NULL	NULL

customer_name	account_no
Avinash	1
Dinesh	2
Nikil	4
Ravi	5
Avinash	8
Nikil	9
Dinesh	10
Nikil	11
NULL	NULL

customer_name	customer_street	city
Avinash	Bull_Temple_Road	Bangalore
Dinesh	Bannergatta_Road	Bangalore
Mohan	NationalCollege_Road	Bangalore
Nikil	Akbar_Road	Delhi
Ravi	Prithviraj_Road	Delhi
NULL	NULL	NULL

account_no	branch_name	balance
1	SBI_Chamarajpet	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

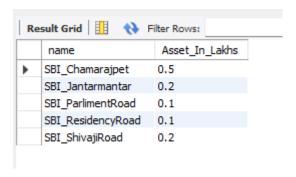| name	city	assets
SBI_Chamarajpet	Bengalore	50000
SBI_Jantarmantar	Delhi	20000
SBI_ParlimentRoad	Delhi	10000
SBI_ResidencyRoad	Bengalore	10000
SBI_ShivajiRoad	Bengalore	20000
NULL	NULL	NULL

select distinct customer_name

from depositor d, bank_account b

where d.account_no= b.account_no

and branch_name ='SBI_ResidencyRoad'

having count(customer_name)>=2;

customer_name
Dinesh

select name,assets/100000 as Asset_In_Lakhs from branch;

name	Asset_In_Lakhs
SBI_Chamarajpet	0.5
SBI_Jantarmantar	0.2
SBI_ParlimentRoad	0.1
SBI_ResidencyRoad	0.1
SBI_ShivajiRoad	0.2

create view loansum as

select branch_name,sum(amount)

from loan

group by branch_name;

SELECT * FROM loansum;

branch_name	sum(amount)
SBI_Chamarajpet	1000
SBI_Jantarmantar	5000
SBI_ParlimentRoad	4000
SBI_ResidencyRoad	2000
SBI_ShivajiRoad	3000