WEEK-3 (1BM21CS045) BANK DATABASE

TO DO

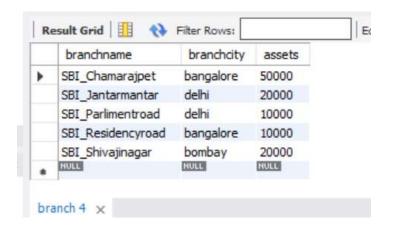
1)Create the above tables by properly specifying the primary keys and the foreign keys.

```
create database 1bm21cs045 bank;
use 1bm21cs045 bank;
create table branch(
branchname varchar(20),
branchcity varchar(20),
assets int.
primary key(branchname)
);
create table bankcustomer(
customername varchar(20),
customerstreet varchar(20),
customercity varchar(20),
primary key(customername)
);
create table bankacc(
accno int,
branchname varchar(20),
balance int,
primary key(accno),
foreign key(branchname) references branch(branchname)
);
create table depositer(
customername varchar(20),
accno int,
primary key(customername, accno),
foreign key(customername) references bankcustomer(customername),
foreign key(accno) references bankacc(accno)
);
create table loan(
loannumber int,
branchname varchar(20),
```

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amount int.
primary key(loannumber),
foreign key(branchname) references branch(branchname)
);
2)Enter at least five tuples for each relation.
insert into branch values('SBI_Chamarajpet','bangalore',50000);
insert into branch values('SBI_Residencyroad','bangalore',10000);
insert into branch values('SBI Shivajinagar', 'bombay', 20000);
insert into branch values('SBI Parlimentroad','delhi',10000);
insert into branch values('SBI Jantarmantar','delhi',20000);
insert into bankcustomer values('Avinash', 'BullTempleRoad', 'bangalore');
insert into bankcustomer values('Dinesh', 'BannerghattaRoad', 'bangalore');
insert into bankcustomer values('Mohan', 'NationalCollegeRoad', 'bangalore');
insert into bankcustomer values('Nikhil','AkbarRoad','delhi');
insert into bankcustomer values('Ravi','PrithvirajRoad','delhi');
insert into bankacc values(1, 'SBI Chamarajpet', 2000);
insert into bankacc values(2,'SBI Residencyroad',5000);
insert into bankacc values(3, 'SBI Shivajinagar', 6000);
insert into bankacc values(4,'SBI Parlimentroad',9000);
insert into bankacc values(5, 'SBI Jantarmantar', 8000);
insert into bankacc values(6, 'SBI Shivajinagar', 4000);
insert into bankacc values(8, 'SBI Residencyroad', 4000);
insert into bankacc values(9, 'SBI Parlimentroad', 3000);
insert into bankacc values(10, 'SBI Residencyroad', 5000);
insert into bankacc values(11, 'SBI Jantarmantar', 2000);
insert into depositer values('Avinash',1);
insert into depositer values('Dinesh',2);
insert into depositer values('Nikhil',4);
insert into depositer values('Ravi',5);
insert into depositer values('Avinash',8);
insert into depositer values('Nikhil',9);
insert into depositer values('Dinesh', 10);
insert into depositer values('Nikhil',11);
insert into loan values(1,'SBI Chamarajpet',1000);
insert into loan values(2, 'SBI Residencyroad', 2000);
insert into loan values(3,'SBI Shivajinagar',3000);
insert into loan values(4, 'SBI Parlimentroad', 4000);
```

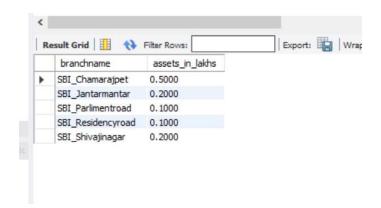
insert into loan values(5, 'SBI Jantarmantar', 5000);

select * from branch;



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

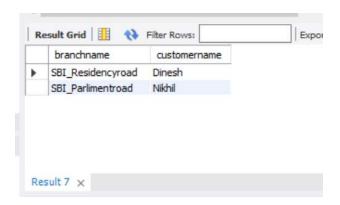
alter table branch rename column assets to assets_in_lakhs; select branchname,(assets_in_lakhs/100000) from branch;



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

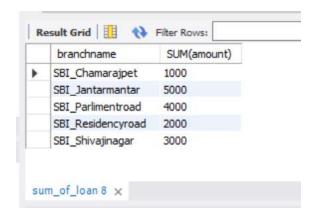
select b.branchname,d.customername from bankacc b,depositer d where d.accno=b.accno group by b.branchname, d.customername

having count(d.customername)>1;



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

create view sum_of_loan
as select branchname, SUM(amount)
from loan
group by branchname;
select *from sum_of_loan;



Spot query

Update or add rupees 1000 to all balance for the customers who are residing in bangalore.

update bankacc set balance=(balance+1000) where accno in(select accno from depositer
where customername in (
select customername
from bankcustomer
where customercity='bangalore'));

select *from bankacc;

