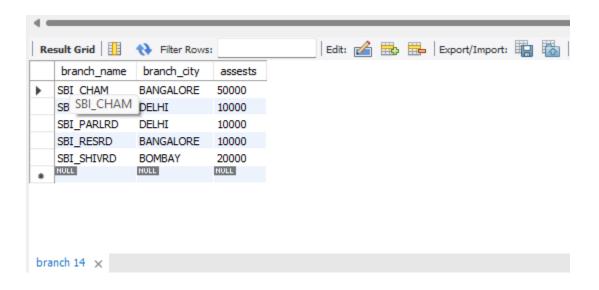
WEEK 3

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

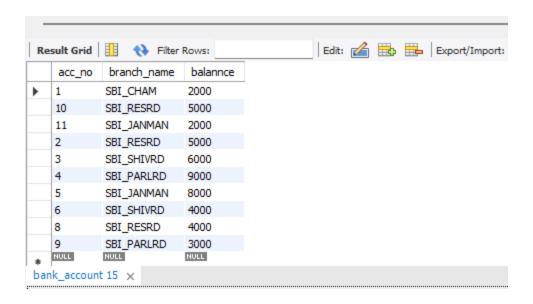
```
create database 1bm21cs050 bank;
use 1bm21cs050 bank;
create table branch(
branch name varchar(10),
branch city varchar(10),
assests int,
PRIMARY KEY(branch name)
create table bank account(
acc no varchar(10),
branch name varchar(10),
balance int,
PRIMARY KEY(acc no),
FOREIGN KEY(branch name) REFERENCES branch(branch name)
);
create table depositEr(
customer name varchar(10),
acc no varchar(10),
PRIMARY KEY(customer name, acc no),
FOREIGN KEY(acc no) REFERENCES bank account(acc no)
);
create table bank customer(
customer name varchar(10),
customer street varchar(10),
city varchar(10),
PRIMARY KEY(customer_name),
FOREIGN KEY (customer name) REFERENCES depositer(customer name)
);
create table loan(
loan number int,
branch_name varchar(10),
amount int,
PRIMARY KEY(loan number),
FOREIGN KEY(branch name) REFERENCES branch (branch name));
```

2. Enter at least five tuples for each relation.

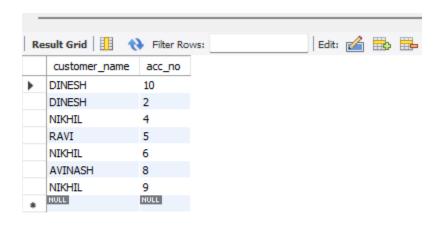
insert into branch values("SBI_CHAM", "BANGALORE", 50000); insert into branch values("SBI_RESRD", "BANGALORE", 10000); insert into branch values("SBI_SHIVRD", "BOMBAY", 20000); insert into branch values("SBI_PARLRD", "DELHI", 10000); insert into branch values("SBI_JANMAN", "DELHI", 10000); select * from branch;



insert into bank_account values("1", "SBI_CHAM", 2000); insert into bank_account values("2", "SBI_RESRD", 5000); insert into bank_account values("3", "SBI_SHIVRD", 6000); insert into bank_account values("4", "SBI_PARLRD", 9000); insert into bank_account values("5", "SBI_JANMAN", 8000); insert into bank_account values("6", "SBI_SHIVRD", 4000); insert into bank_account values("8", "SBI_RESRD", 4000); insert into bank_account values("9", "SBI_PARLRD", 3000); insert into bank_account values("10", "SBI_RESRD",5000); insert into bank_account values("11", "SBI_JANMAN", 2000); select * from bank account;

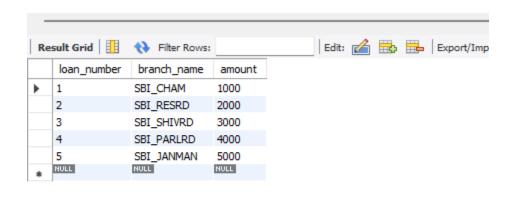


insert into depositer values("DINESH", 2); insert into depositer values("NIKHIL", 4); insert into depositer values("RAVI", 5); insert into depositer values("AVINASH", 8); insert into depositer values("NIKHIL", 9); insert into depositer values("DINESH", 10); insert into depositer values("NIKHIL", 6); select * from depositer;



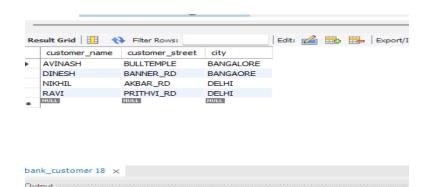
depositer 16 🗶

insert into loan values(1, "SBI_CHAM",1000); insert into loan values(2, "SBI_RESRD",2000); insert into loan values(3, "SBI_SHIVRD",3000); insert into loan values(4, "SBI_PARLRD",4000); insert into loan values(5, "SBI_JANMAN",5000); select * from loan;



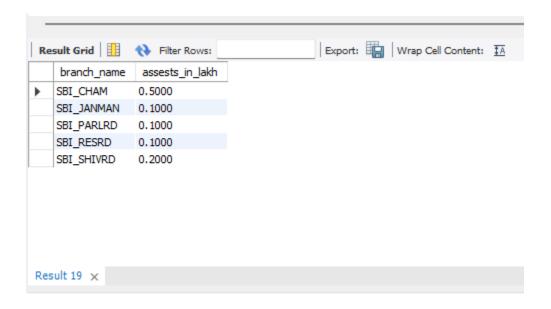
loan 17 ×

insert into bank_customer values("AVINASH","BULLTEMPLE", "BANGALORE"); insert into bank_customer values("DINESH", "BANNER_RD", "BANGAORE"); insert into bank_customer values("AVINASH", "NATCLG_RD", "BANGALORE"); insert into bank_customer values("NIKHIL", "AKBAR_RD","DELHI"); insert into bank_customer values("RAVI", "PRITHVI_RD", "DELHI"); select * from bank_customer;



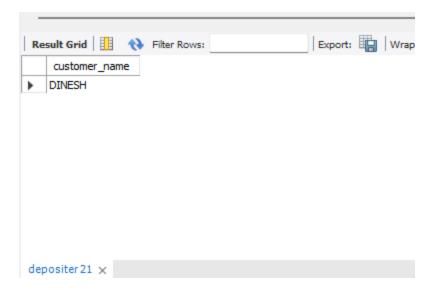
3. Display the branch name and assets from all branches in lakhs of rupees and rename the assets column to 'assets in lakhs'.

select branch_name, assests/100000 as assests_in_lakh from branch;



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

select customer_name from depositer where acc_no IN (select acc_no from bank_account where branch_name="SBI_RESRD" group by customer_name having count(acc_no)>=2);



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

create view sum_of_loans as select branch_name, sum(balannce) from bank_account group by branch_name; select * from sum_of_loans;

