## Medha Madhusudhan 1BM19CS230

**CSE - 4A** 

```
Lab Program - 2
create database banking;
use banking;
create table Branch(
      branch_name varchar(20) not null,
      branch_city varchar(20) not null,
      assets real not null,
      primary key(branch_name)
);
create table BankAccount(
      accno int not null,
      branch_name varchar(20) not null,
      balance real not null,
      primary key(accno),
      foreign key(branch_name) references Branch(branch_name)
);
create table BankCustomer(
      customer_name varchar(20) not null,
      customer_street varchar(20) not null,
      customer_city varchar(20) not null,
      primary key(customer_name)
```

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);
create table Depositor(
      customer name varchar(20) not null,
      accno int not null,
      primary key(customer_name,accno),
      foreign key(customer_name) references BankCustomer(customer_name),
      foreign key(accno) references BankAccount(accno)
);
create table Loan(
      loanno int not null,
      branch_name varchar(20) not null,
      amount real not null,
      primary key(loanno),
      foreign key(branch_name) references Branch(branch_name)
);
insert into Branch(branch_name,branch_city,assets)
      values ('SBI_Chamrajpet', 'Bangalore', 50000),
            ('SBI_ResidencyRoad', 'Bangalore', 10000),
            ('SBI_ShivajiRoad', 'Bombay', 20000),
            ('SBI_ParliamentRoad', 'Delhi', 10000),
            ('SBI_Jantarmantar', 'Delhi', 20000);
insert into BankAccount(accno,branch_name,balance)
      values (1, 'SBI_Chamrajpet', 2000),
            (2, 'SBI_ResidencyRoad', 5000),
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(3,'SBI_ShivajiRoad',6000),
             (4, 'SBI ParliamentRoad', 9000),
             (5, 'SBI_Jantarmantar', 8000),
             (6, 'SBI ShivajiRoad', 4000),
             (8, 'SBI_ResidencyRoad', 4000),
             (9, 'SBI_ParliamentRoad', 3000),
             (10, 'SBI_ResidencyRoad', 5000),
             (11, 'SBI_Jantarmantar', 2000);
insert into BankCustomer (customer name, customer street, customer city)
      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(customer name, accno)
      values ('Avinash',1),
             ('Dinesh',2),
             ('Nikil',4),
             ('Ravi',5),
             ('Avinash',8),
             ('Nikil',9),
             ('Dinesh',10),
             ('Nikil',11);
insert into Loan(loanno,branch_name,amount)
      values (1, 'SBI Chamrajpet', 1000),
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```
(2, 'SBI_ResidencyRoad',2000),
(3, 'SBI_ShivajiRoad',3000),
(4, 'SBI_ParliamentRoad',4000),
(5, 'SBI_Jantarmantar',5000);
```

- -- Branch, Bank Account, Bank Customer, Depositor, Loan
- -- find all the customers who have at least two accounts at the 'SBI\_ResidencyRoad'

select distinct d.customer\_name from Depositor d,BankAccount ba,Branch b
where d.accno = ba.accno and ba.branch\_name = b.branch\_name and
ba.branch\_name = 'SBI\_ResidencyRoad'
and 2 <= (select count(accno) from Depositor where customer\_name =
d.customer\_name);

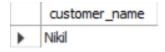


## -- find all the customers who have an account at all branches in Delhi

select d.customer\_name from Depositor d,BankAccount ba,Branch b where d.accno = ba.accno and b.branch\_name = ba.branch\_name and b.branch\_city = 'Delhi'

group by d.customer\_name

having count(d.accno) >= (select count(branch\_name) from Branch where branch\_city = 'Delhi');



## -- demonstrate how you delete all account tuples at every branch located at a Bombay

delete from BankAccount

where branch\_name in (select branch\_name from Branch where branch\_city = 'Bombay');

## select \* from BankAccount;

	accno	branch_name	balance
•	1	SBI_Chamrajpet	2000
	2	SBI_ResidencyRoad	5000
	4	SBI_ParliamentRoad	9000
	5	SBI_Jantarmantar	8000
	8	SBI_ResidencyRoad	4000
	9	SBI_ParliamentRoad	3000
	10	SBI_ResidencyRoad	5000
	11	SBI_Jantarmantar	2000