**DBMS LAB 3RD WEEK (1BM21CS254)**

create database bankdatabase;

use bankdatabase;

create table branch(branch\_name varchar(25), branch\_city varchar(25), assets float);

alter table branch modify branch\_name varchar(25) primary key;

create table bankAccount(

accno int,

branch\_name varchar(20),

balance real,

PRIMARY KEY(accno),

FOREIGN KEY(branch\_name) REFERENCES branch(branch\_name)

ON UPDATE CASCADE ON DELETE CASCADE

);

create table bankCustomer(

customer\_name varchar(20),

customer\_street varchar(20),

customer\_city varchar(20),

PRIMARY KEY(customer\_name)

);

create table depositer(

customer\_name varchar(20),

accno int,

FOREIGN KEY(customer\_name)REFERENCES bankCustomer(customer\_name)

ON UPDATE CASCADE ON DELETE CASCADE,

FOREIGN KEY(accno) REFERENCES bankAccount(accno)

ON UPDATE CASCADE ON DELETE CASCADE

);

create table loan(

loan\_no int,

branch\_name varchar(20),

amount real,

PRIMARY KEY(loan\_no),

FOREIGN KEY(branch\_name) REFERENCES branch(branch\_name)

ON UPDATE CASCADE ON DELETE CASCADE

);

insert into branch values('sbi\_chamrajpet','bangalore',50000);

insert into branch values('sbi\_residencyRoad','bangalore',10000);

insert into branch values('sbi\_shivajiRoad','mumbai',20000);

insert into branch values('sbi\_parlimentRoad','delhi',10000);

insert into branch values('sbi\_jantarmantar','delhi',20000);

insert into bankAccount values(2,'sbi\_residencyRoad',5000);

insert into bankAccount values(3,'sbi\_shivajiRoad',6000);

insert into bankAccount values(4,'sbi\_parlimentRoad',9000);

insert into bankAccount values(5,'sbi\_jantarmantar',8000);

insert into bankAccount values(6,'sbi\_shivajiRoad',4000);

insert into bankAccount values(1,'sbi\_chamrajpet',2000);

insert into bankCustomer values('paul','banerghatta\_road','bangalore');

insert into bankCustomer values('jake','nationalCollege\_road','bangalore');

insert into bankCustomer values('brian','akbar\_road','delhi');

insert into bankCustomer values('brandon','prithviraj\_road','delhi');

insert into bankCustomer values('logan','bull\_temple\_road','bangalore');

insert into depositer values('paul',1);

insert into depositer values('jake',2);

insert into depositer values('brian',3);

insert into depositer values('brandon',4);

insert into depositer values('logan',5);

insert into loan values(1,'sbi\_chamrajpet',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);

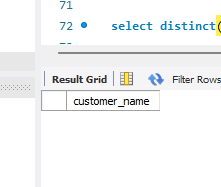
insert into loan values(5,'sbi\_jantarmantar',5000);

**Queries**

Q.Find all the customers who have at least two accounts at the Main branch (ex. SBI\_ResidencyRoad).

>select distinct(customer\_name) from depositer d, bankaccount b where (d.accno=b.accno and b.branch\_name='sbi\_residencyRoad') having(count(\*)>1);

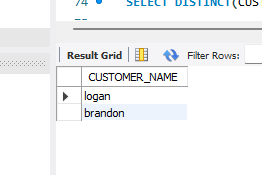
Output:-



Q. Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi).

>SELECT DISTINCT(CUSTOMER\_NAME) FROM BRANCH B, DEPOSITER D, BANKACCOUNT BA WHERE (D.ACCNO=BA.ACCNO AND BA.BRANCH\_NAME=B.BRANCH\_NAME AND B.BRANCH\_CITY='delhi');

Output:-



Q. Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).

>delete from bankaccount where branch\_name in(select branch\_name from branch where branch\_city='mumbai');

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

>create view loan\_sum as

select branch\_name, sum(amount)

from loan

group by branch\_name;

sbi\_chamrajpet 11000

Sbi\_jantarmantar 5000

sbi\_parlimentRoad 4000

sbi\_residencyRoad 2000

Sbi\_shivajiroad 3000

Q. Display branch name and assets from all branches in lakhs of rupees and rename assets column to assets in Lakhs

>select branch\_name,branch\_city,assets\_in\_lakhs/100000 as assets\_in\_Lakhs from Branch;

Branch\_name branch\_city assts\_in\_lakhs

Sbi\_Chamrajpet Bangalore 0.5

Sbi\_JantarMantar Delhi 0.2

Sbi\_ParliamentRoad Delhi 0.1

Sbi\_ResidencyRoad Bangalore 0.1

Sbi\_ShivajiRoad Bombay 0.2