**Week 3: Bank-Database**

create database bank\_database;

use bank\_database;

create table branch(

branch\_name varchar(30) primary key,

branch\_city varchar(40),

assets real

);

create table bank\_account(

acc\_no int,

branch\_name varchar(40),

balance real,

primary key(acc\_no,branch\_name),

foreign key(branch\_name) references branch(branch\_name)

);

create table depositer(

customer\_name varchar(30),

acc\_no int,

primary key(customer\_name,acc\_no),

foreign key(acc\_no) references bank\_account(acc\_no),

foreign key(customer\_name) references bank\_customer(customer\_name)

);

create table bank\_customer(

customer\_name varchar(30) primary key,

customer\_street varchar(40),

customer\_city varchar(50)

);

create table loan(

branch\_name varchar(30),

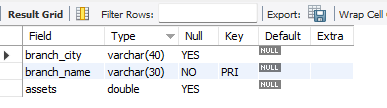
loan\_number int primary key,

amount real,

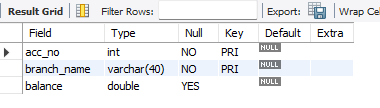
foreign key(branch\_name) references branch(branch\_name)

);

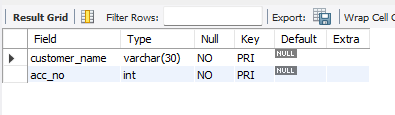
desc branch;



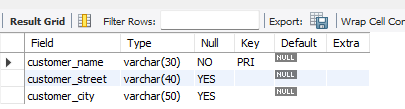
desc bank\_account;



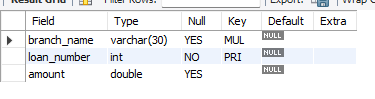
desc depositer;



desc bank\_customer;



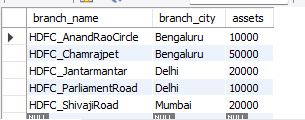
desc loan;



insert into branch

values('HDFC\_Chamrajpet','Bengaluru',50000),('HDFC\_AnandRaoCircle','Bengaluru',10000),('HDFC\_ShivajiRoad','Mumbai',20000),('HDFC\_ParliamentRoad','Delhi',10000),('HDFC\_Jantarmantar','Delhi',20000);

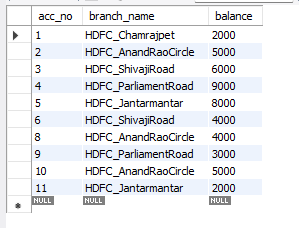
select \* from branch;



insert into bank\_account

values(1,'HDFC\_Chamrajpet',2000),(2,'HDFC\_AnandRaoCircle',5000),(3,'HDFC\_ShivajiRoad',6000),(4,'HDFC\_ParliamentRoad',9000),(5,'HDFC\_Jantarmantar',8000),(6,'HDFC\_ShivajiRoad',4000),(8,'HDFC\_AnandRaoCircle',4000),(9,'HDFC\_ParliamentRoad',3000),(10,'HDFC\_AnandRaoCircle',5000),(11,'HDFC\_Jantarmantar',2000);

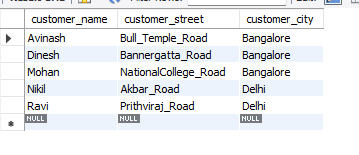
select \* from bank\_account;



insert into bank\_customer

values('Avinash','Bull\_Temple\_Road','Bangalore'),('Dinesh','Bannergatta\_Road','Bangalore'),('Mohan','NationalCollege\_Road','Bangalore'),('Nikil','Akbar\_Road','Delhi'),('Ravi','Prithviraj\_Road','Delhi');

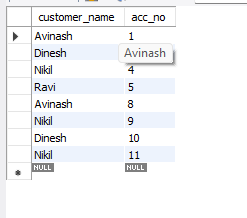
select \* from bank\_customer;



insert into depositer

values('Avinash',1),('Dinesh',2),('Nikil',4),('Ravi',5),('Avinash',8),('Nikil',9),('Dinesh',10),('Nikil',11);

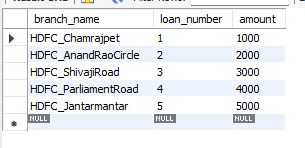
select \* from depositer;



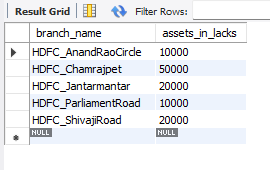
insert into loan

values('HDFC\_Chamrajpet',1,1000),('HDFC\_AnandRaoCircle',2,2000),('HDFC\_ShivajiRoad',3,3000),('HDFC\_ParliamentRoad',4,4000),('HDFC\_Jantarmantar',5,5000);

select \* from loan;



select branch\_name,assets as assets\_in\_lacks from branch;



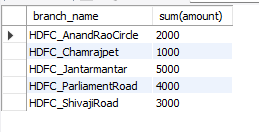
select d.customer\_name,count(d.acc\_no) from bank\_account b,depositer d where b.acc\_no=d.acc\_no and branch\_name='HDFC\_AnandRaoCircle' group by customer\_name having count(d.acc\_no)>=2;



create view loan\_sum as

select l.branch\_name,sum(amount) from loan l group by l.branch\_name;

select \* from loan\_sum;



update bank\_account set balance=(balance+1000)

where acc\_no in (select d.acc\_no from depositer d,bank\_customer b where d.customer\_name=b.customer\_name and b.customer\_city='Bangalore');

select \* from bank\_account;

