**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),

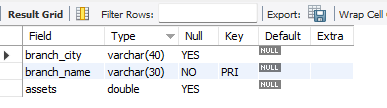
loan\_number int primary key,

amount real,

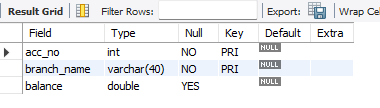
foreign key(branch\_name) references branch(branch\_name)

);

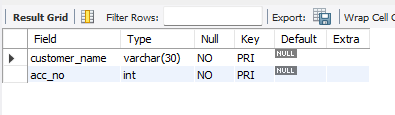
desc branch;



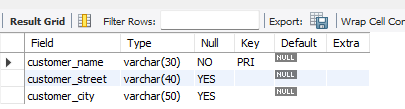
desc bank\_account;



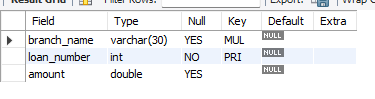
desc depositer;



desc bank\_customer;



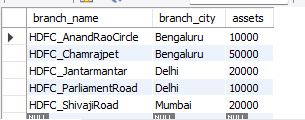
desc loan;



insert into branch

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

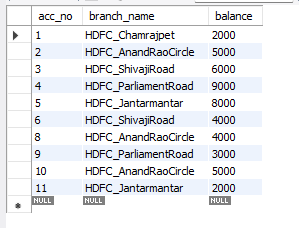
select \* from branch;



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);

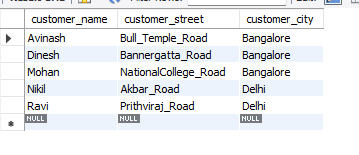
select \* from bank\_account;



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');

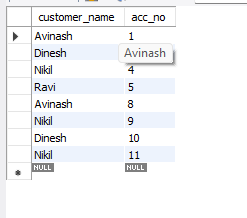
select \* from bank\_customer;



insert into depositer

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

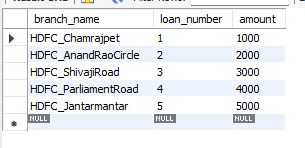
select \* from depositer;



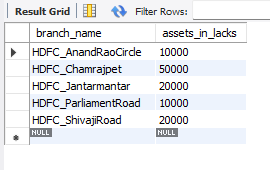
insert into loan

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;



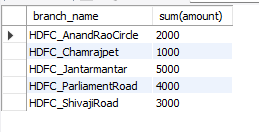
select d.customer\_name,count(d.acc\_no) from bank\_account b,depositer d where b.acc\_no=d.acc\_no and branch\_name='HDFC\_AnandRaoCircle' group by customer\_name having count(d.acc\_no)>=2;



create view loan\_sum as

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

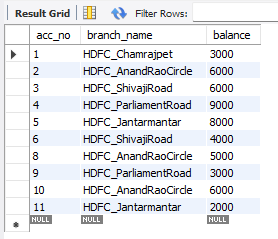
select \* from loan\_sum;



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;



select customer\_name from bank\_account ba, depositer d

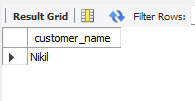
where branch\_name in (select branch\_name from branch

where branch\_city = "Delhi") and ba.acc\_no = d.acc\_no

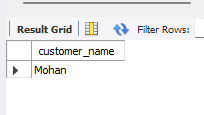
group by customer\_name

having count(distinct branch\_name) = (select count(branch\_name) from branch

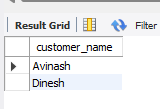
where branch\_city = "Delhi");



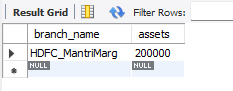
select customer\_name from borrower where customer\_name not in (select customer\_name from depositer);



select distinct customer\_name from depositer where customer\_name in (select b.customer\_name from borrower b,branch bh,loan l where l.loan\_number=b.loan\_number and l.branch\_name=bh.branch\_name and bh.branch\_city='Bengaluru');

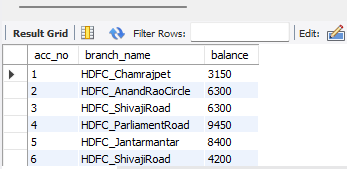


select br.branch\_name,br.assets from branch br group by br.branch\_name having br.assets>all(select b.assets from branch b where b.branch\_city='Bengaluru');



update bank\_account set balance=balance+0.05\*balance;

select \* from bank\_account;



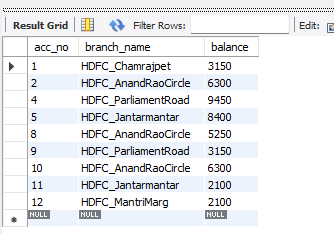
delete from depositer

where acc\_no in (select acc\_no from bank\_account where branch\_name in (select branch\_name from branch where branch\_city='Mumbai'));

delete from bank\_account

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

select \* from bank\_account;



delete from depositer

where acc\_no in (select acc\_no from bank\_account where branch\_name in (select branch\_name from branch where branch\_city='Bengaluru'));

delete from loan

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

delete from bank\_account

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

delete from branch

where branch\_city='Bengaluru';

select \* from branch;

