**Week-3**

**Bank Database**

drop database bankDb;

create database bankDb;

use bankDb;

create table Branch(

branch\_name varchar(30),

branch\_city varchar(50),

assets float,

primary key(branch\_name));

create table BankAccount(

accno int,

branch\_name varchar(30),

balance float,

primary key(accno),

foreign key(branch\_name)

references Branch(branch\_name)

on delete cascade on update cascade);

create table BankCustomer(

customer\_name varchar(20),

customer\_street varchar(20),

customer\_city varchar(10),

primary key(customer\_name));

create table depositor(

customer\_name varchar(20),

accno int,

primary key(customer\_name,accno),

foreign key(customer\_name) references BankCustomer(customer\_name) on delete cascade on

update cascade,

foreign key(accno) references BankAccount(accno) on delete cascade on update cascade);

create table loan(

loan\_number int,

branch\_name varchar(30),

amount float,

primary key(loan\_number),

foreign key(branch\_name) references Branch(branch\_name) on delete cascade on update cascade);

insert into branch values('icici\_deshpande','bangalore',50619);

insert into branch values('icici\_residencyRoad','bangalore',50219);

insert into branch values('icici\_shivajiRoad','mumbai',25670);

insert into branch values('icici\_parlimentRoad','delhi',10430);

insert into branch values('icici\_basavangudi','pune',20066);

select\*from branch;

insert into bankAccount values(1,'icici\_deshpande',50619);

insert into bankAccount values(2,'icici\_residencyRoad',50219);

insert into bankAccount values(3,'icici\_shivajiRoad',25670);

insert into bankAccount values(4,'icici\_parlimentRoad',10430);

insert into bankAccount values(5,'icici\_basavangudi',20066);

insert into bankAccount values(6,'icici\_shivajiRoad',25670);

select\*from bankaccount;

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

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

insert into bankCustomer values('Zayd','akbar\_road','bangalore');

insert into bankCustomer values('Aadhya','nationalCollege\_road','delhi');

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

insert into depositor values('Tanisha',1);

insert into depositor values('Hasnain',2);

insert into depositor values('Zayd',3);

insert into depositor values('Aadhya',4);

insert into depositor values('Yash',5);

insert into loan values(1, 'icici\_deshpande', 50619);

insert into loan values(2,'icici\_residencyRoad',50219);

insert into loan values(3,'icici\_shivajiRoad',25670);

insert into loan values(4,'icici\_parlimentRoad',10430);

insert into loan values(5,'icici\_basavangudi',20066);

select customer\_name,count(\*),branch\_name from depositor d inner join BankAccount b on

d.accno=b.accno group by customer\_name,branch\_name having count(\*)>=2;

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

create view loan\_sum1 as

select branch\_name, sum(amount)

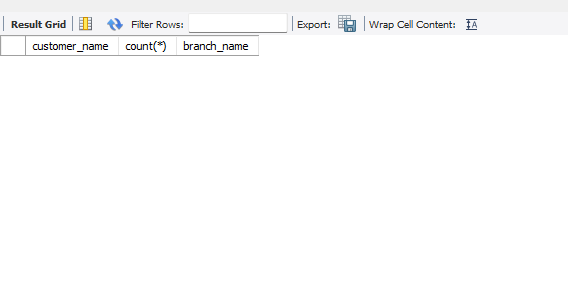
from loan

group by branch\_name;

Query

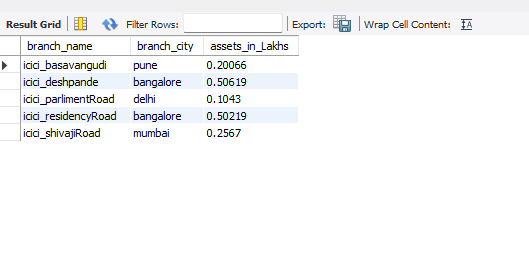
1. Find all the customers who have atleast two accounts at the same branch

select customer\_name,count(\*),branch\_name from depositor d inner join BankAccount b on

d.accno=b.accno group by customer\_name,branch\_name having count(\*)>=2;

2. 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,branch\_city,assets/100000 as assets\_in\_Lakhs from Branch;



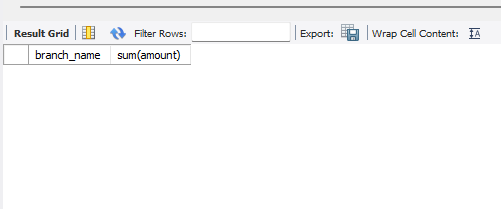
1. Create a view which gives each branch the sum of the amount of all the loans at the branch

create view loan\_sum1 as

select branch\_name, sum(amount)

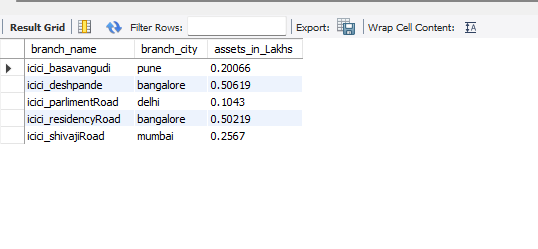
from loan

group by branch\_name;





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

  
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');

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