WEEK 3

CODE

```
create database bank_database;
use bank_database;

create table branch(
branch_name varchar(40) primary key,
branch_city varchar(40),
assets int
);

create table bank_account(
acc_no int,
branch_name varchar(40),
balance int,
primary key(acc_no,branch_name),
foreign key(branch_name)references branch(branch_name)
on delete cascade);

create table bank_customer(
customer_name varchar(30) primary key,
customer_city varchar(40),
customer_street varchar(50)
);

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),
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foreign key(customer_name) references bank_customer(customer_name)

on delete cascade);


create table loan(

branch_name varchar(30),

loan_number int primary key,

amount int,

foreign key(branch_name) references branch(branch_name)

on delete cascade);


insert into branch

values('HDFC_Chamrajpet','Bengaluru',50000),('HDFC_AnandRaoCircle','Bengaluru',10000),('HDFC_S
hivajiRoad','Mumbai',20000),('HDFC_ParliamentRoad','Delhi',10000),('HDFC_Jantarmantar','Delhi',20
000);


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,'HDF
C_Jantarmantar',2000);


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');


insert into depositer

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


insert into loan

values('HDFC_Chamrajpet',1,1000),('HDFC_AnandRaoCircle',2,2000),('HDFC_ShivajiRoad',3,3000),('H
DFC_ParliamentRoad',4,4000),('HDFC_Jantarmantar',5,5000);
```

QUERY 1

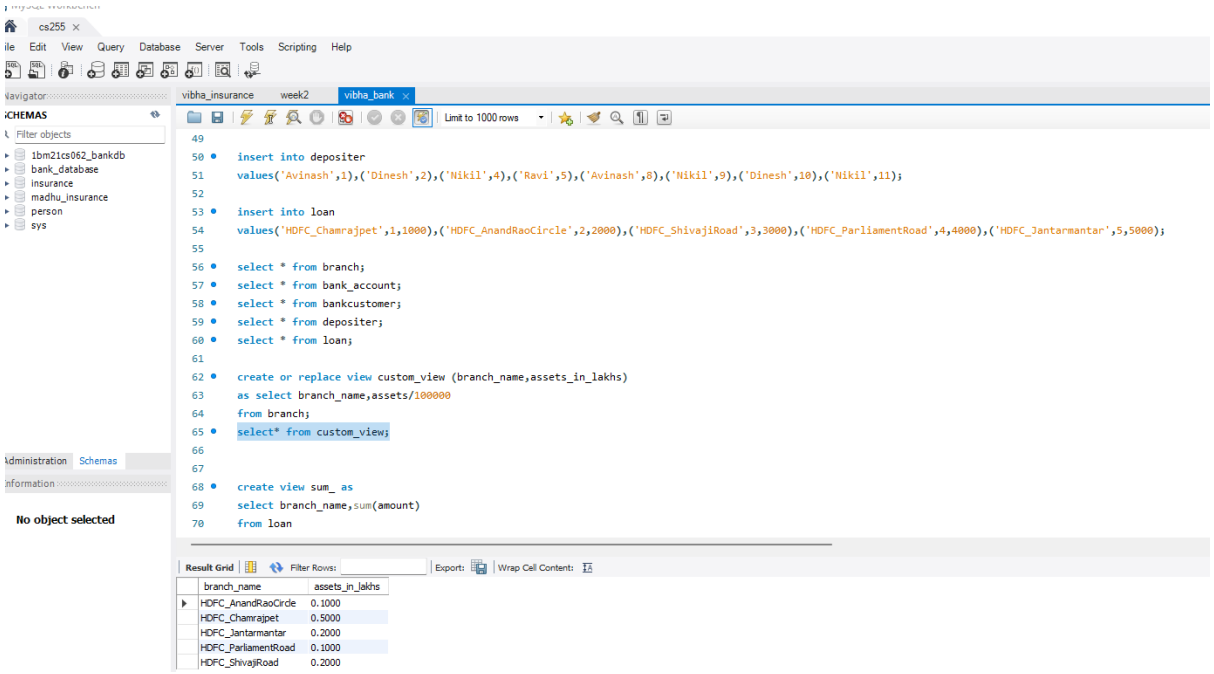
Display the branch name and assets from all branches in lakhs of rupees and rename the assets column to 'assets in lakhs'.

create or replace view custom_view (branch_name,assets_in_lakhs)

as select branch_name,assets/100000

from branch;

select* from custom_view;



QUERY 3

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

insert into loan

values('HDFC_Chamrajpet',6,6000);

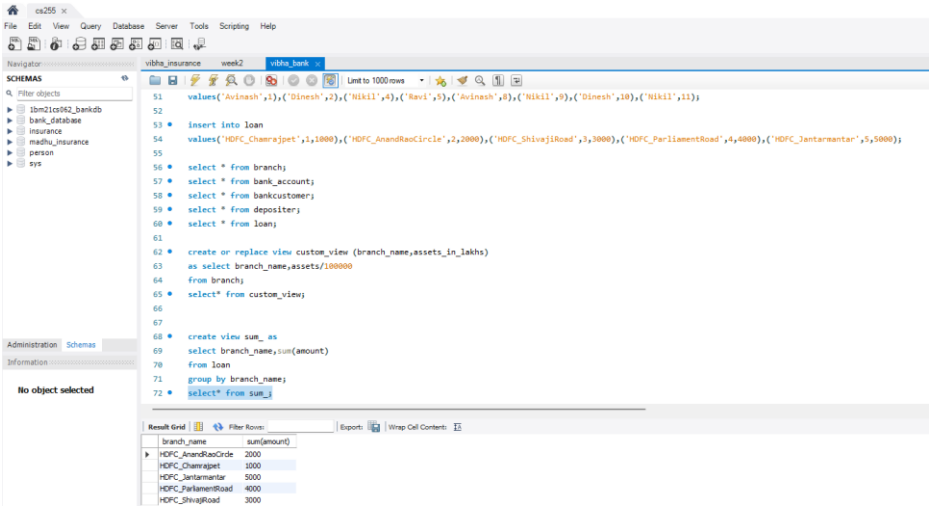
create view sum_ as

select branch_name,sum(amount)

from loan

group by branch_name;

select* from sum_;



QUERY 2

Find all the customers who have at least two accounts at the same branch (ex. SBI_ResidencyRoad).

select customer_name, branch_name from depositer d

inner join bank_account b on d.acc_no=b.acc_no

group by customer_name, branch_name

having count(*)>=2;