**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),

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\_ShivajiRoad','Mumbai',20000),('HDFC\_ParliamentRoad','Delhi',10000),('HDFC\_Jantarmantar','Delhi',20000);

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);

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),('HDFC\_ParliamentRoad',4,4000),('HDFC\_Jantarmantar',5,5000);

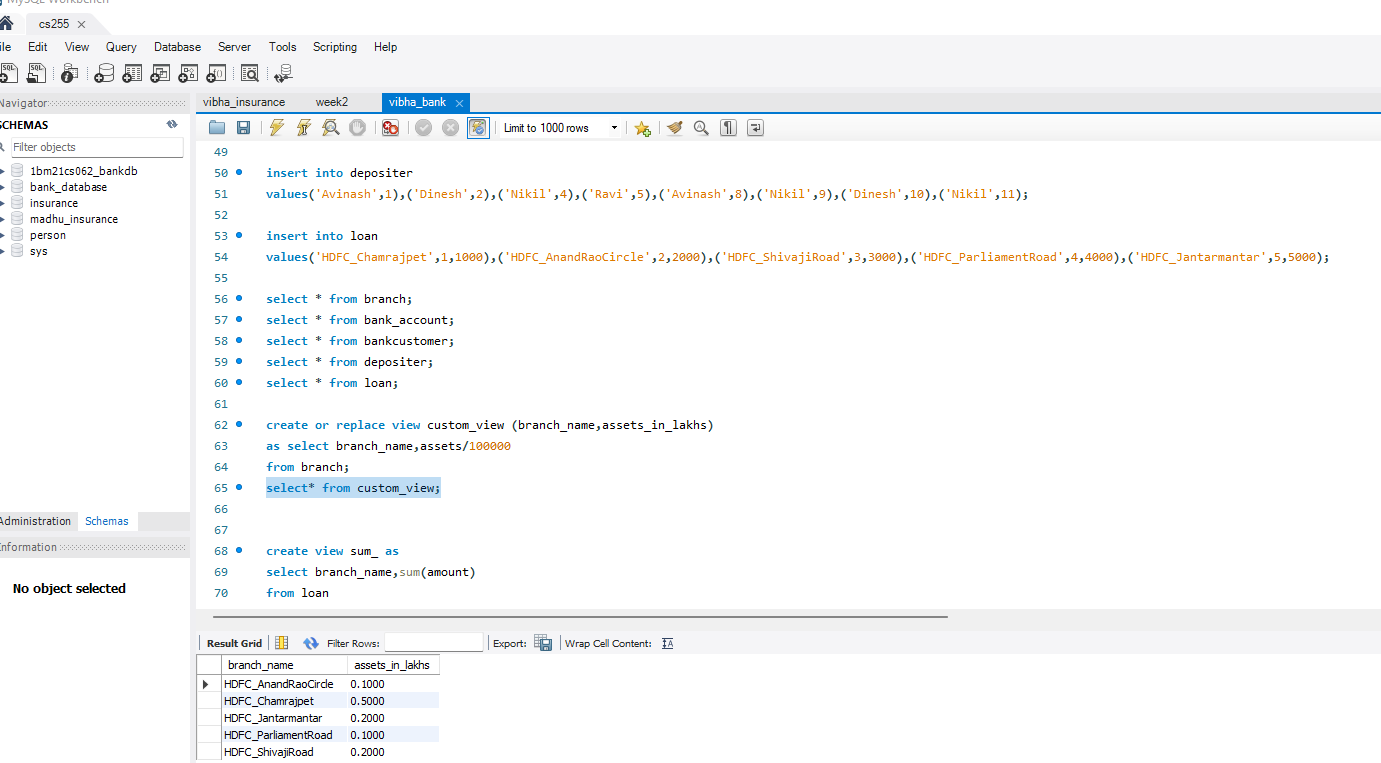
**QUERY 1**  
Display the branch name and assets from all branches in lakhs of rupees and rename  
the assets column to 'assets in lakhs'.

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);

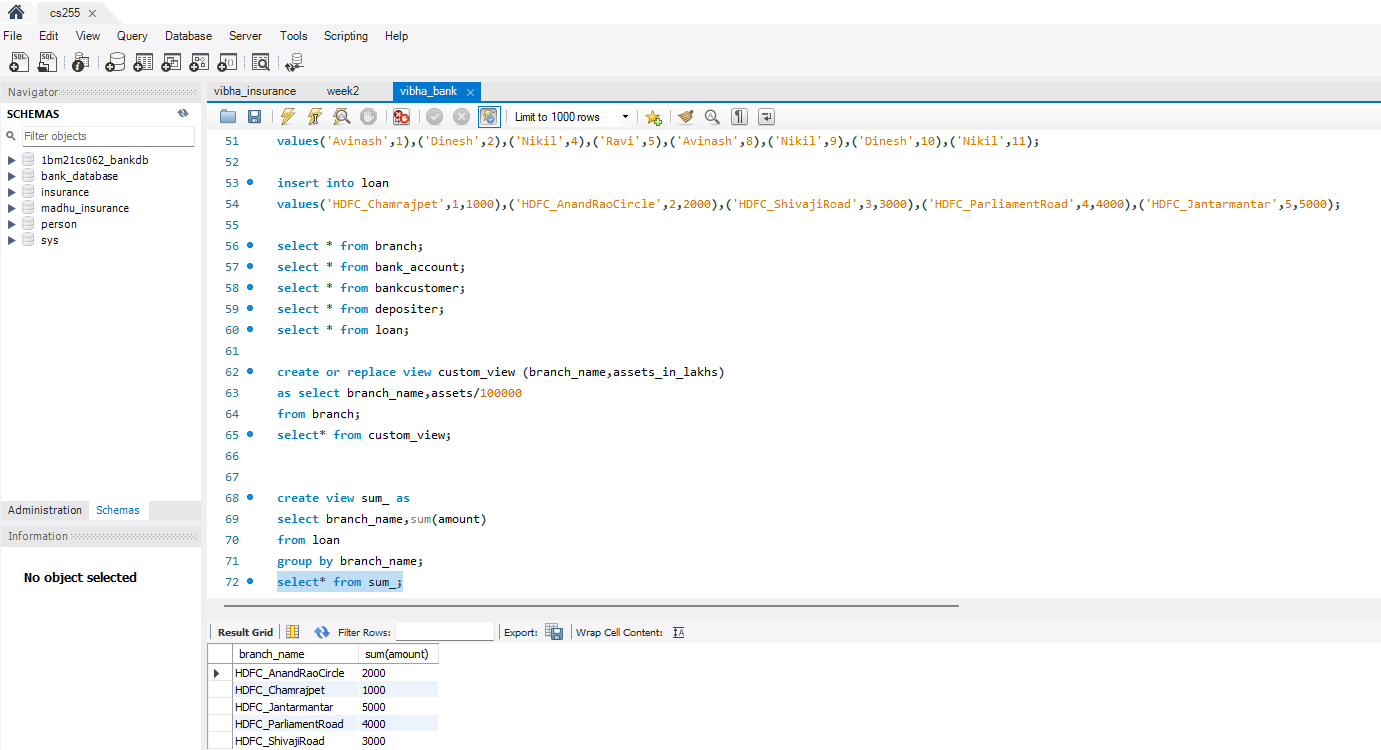
create view sum\_ as

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;

