17|10|2025

Week 3

create database bankdetails;

use bankdetails;

create table Branch(branch\_name varchar(20),branch\_city varchar(20),assets int,

primary key(branch\_name));

create table BankAccount(acc\_no int,branch\_name varchar(20),balance int,

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

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

create table BankCustomer(customer\_name varchar(20),customer\_street varchar(30),customer\_city varchar(20),

primary key(customer\_name));

create table Depositor(customer\_name varchar(20),acc\_no int,

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

foreign key(customer\_name) references BankCustomer(customer\_name),

foreign key(acc\_no) references BankAccount(acc\_no));

create table Loan(loan\_number int,branch\_name varchar(20),amount int,

primary key(branch\_name),

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

insert into Branch values('SBI\_Chamrajpet','Bangalore',50000);

insert into Branch values('SBI\_ResidencyRoad','Bangalore',10000);

insert into Branch values('SBI\_ShivajiRoad','Bombay',20000);

insert into Branch values('SBI\_ParliamentRoad','Delhi',10000);

insert into Branch values('SBI\_Jantarmantar','Delhi',20000);

insert into BankAccount values(1,'SBI\_Chamrajpet',2000);

insert into BankAccount values(2,'SBI\_ResidencyRoad',5000);

insert into BankAccount values(3,'SBI\_ShivajiRoad',6000);

insert into BankAccount values(4,'SBI\_ParliamentRoad',9000);

insert into BankAccount values(5,'SBI\_Jantarmantar',8000);

insert into BankAccount values(6,'SBI\_ShivajiRoad',4000);

insert into BankAccount values(8,'SBI\_ResidencyRoad',4000);

insert into BankAccount values(9,'SBI\_ParliamentRoad',3000);

insert into BankAccount values(10,'SBI\_ResidencyRoad',5000);

insert into BankAccount values(11,'SBI\_Jantarmantar',2000);

insert into BankCustomer values('Avinash','Bull\_temple\_Road','Bangalore');

insert into BankCustomer values('Dinesh','Bannergatta\_Road','Bangalore');

insert into BankCustomer values('Mohan','NationalCollege\_Road','Bangalore');

insert into BankCustomer values('Nikhil','Akbar\_Road','Delhi');

insert into BankCustomer values('Ravi','Prithviraj\_Road','Delhi');

insert into Depositor values('Avinash',1);

insert into Depositor values('Dinesh',2);

insert into Depositor values('Nikhil',4);

insert into Depositor values('ravi',5);

insert into Depositor values('Avinash',8);

insert into Depositor values('Nikhil',9);

insert into Depositor values('Dinesh',10);

insert into Depositor values('Nikhil',11);

insert into Loan values(1,'SBI\_Chamrajpet',1000);

insert into Loan values(2,'SBI\_ResidencyRoad',2000);

insert into Loan values(3,'SBI\_ShivajiRoad',3000);

insert into Loan values(4,'SBI\_ParliamentRoad',4000);

insert into Loan values(5,'SBI\_Jantarmantar',5000);

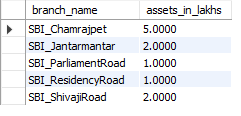
QUERIES:

1.

select branch\_name , (assets)/10000 as assets\_in\_lakhs from branch;

alter table branch change assets assets\_in\_lakhs int;

output:



2.

SELECT d.customer\_name, b.branch\_name

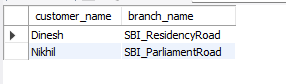
FROM depositor d, bankaccount b

WHERE d.acc\_no = b.acc\_no

GROUP BY d.customer\_name, b.branch\_name

HAVING COUNT(d.customer\_name) > 1;

Output:



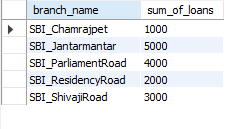
3. create view sum\_loans

as select branch\_name , amount as sum\_of\_loans

from loan;

select \* from sum\_loans;

output:



4.SELECT DISTINCT c.customer\_name

FROM BankCustomer c

WHERE c.customer\_name NOT IN (

SELECT d.customer\_name FROM Depositor d

)

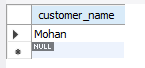
AND c.customer\_city IN (

SELECT b.branch\_city

FROM Branch b

JOIN Loan l ON b.branch\_name = l.branch\_name

);



5.

SELECT DISTINCT c.customer\_name

FROM BankCustomer c, Depositor d, BankAccount a, Branch b1, Loan l, Branch b2

WHERE c.customer\_name = d.customer\_name

AND d.acc\_no = a.acc\_no

AND a.branch\_name = b1.branch\_name

AND l.branch\_name = b2.branch\_name

AND b1.branch\_city = 'Bangalore'

AND b2.branch\_city = 'Bangalore';



6.

SELECT b1.branch\_name

FROM Branch b1

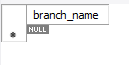
WHERE b1.assets > ALL (

SELECT b2.assets

FROM Branch b2

WHERE b2.branch\_city = 'Bangalore'

);



7.

DELETE FROM BankAccount

WHERE branch\_name IN (

SELECT b.branch\_name

FROM Branch b

WHERE b.branch\_city = 'Bombay'

);

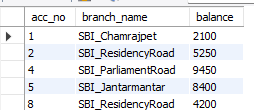
8.

UPDATE BankAccount

SET balance = balance \* 1.05

WHERE acc\_no > 0;

select \* from BankAccount;



9.

SELECT d.customer\_name

FROM Depositor d, BankAccount a, Branch b

WHERE d.acc\_no = a.acc\_no

AND a.branch\_name = b.branch\_name

AND b.branch\_city = 'Delhi'

GROUP BY d.customer\_name

HAVING COUNT(DISTINCT b.branch\_name) > 1;

