WEEK-4

Create database BANK034;

Use Bank034 ;

create table Branch (branch\_name varchar(30), branch\_city varchar(20), assets real, primary key(branch\_name));

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

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

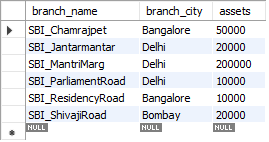
insert into Branch values('SBI\_ShivajiRoad','Bombay',20000);

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

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

insert into Branch values('SBI\_MantriMarg','Delhi',200000);

select \* from Branch;



create table BankAccount (accno int, branch\_name varchar(30), balance real,

primary key (accno),

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

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);

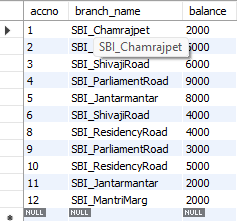
insert into BankAccount values(9,'SBI\_ParliamentRoad',3000);

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

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

insert into BankAccount values(12,'SBI\_MantriMarg',2000);

select \* from BankAccount;



create table BankCustomer (customer\_name varchar(20), customer\_street varchar(20),customer\_city varchar(20),primary key(customer\_name));

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

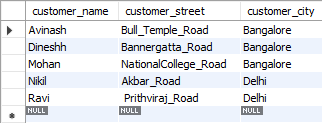
insert into BankCustomer values('Dineshh', 'Bannergatta\_Road', 'Bangalore');

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

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

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

select \* from BankCustomer;



create table Depositer(customer\_name varchar(20), accno int, primary key(customer\_name, accno),

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

foreign key (accno) references BankAccount(accno));

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

insert into Depositer values('Dineshh', 2);

insert into Depositer values('Nikil', 4);

insert into Depositer values('Ravi', 5);

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

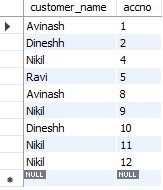
insert into Depositer values('Nikil', 9);

insert into Depositer values('Dineshh', 10);

insert into Depositer values('Nikil', 11);

insert into Depositer values('Nikil',12);

select \* from Depositer;



create table LOAN (loan\_number int, branch\_name varchar(30), amount real,

primary key(loan\_number),

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

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

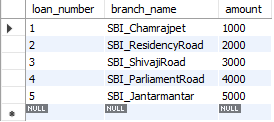
insert into LOAN values(2,'SBI\_ResidencyRoad',2000);

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

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

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

select \* from LOAN;



create table Borrower(customer\_name varchar(20),loan\_number int);

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

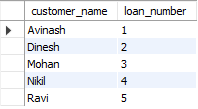
insert into Borrower values('Dinesh',2);

insert into Borrower values('Mohan',3);

insert into Borrower values('Nikil',4);

insert into Borrower values('Ravi',5);

select \* from Borrower;



1. Find all the customers who have an account at all the branches

located in a specific city (Ex. Delhi).

SELECT d.customer\_name

From bankaccount a,branch b, depositer d

WHERE b.branch\_name=a.branch\_name AND a.accno=d.accno AND b.branch\_city='Delhi'

GROUP BY d.customer\_name

HAVING COUNT(distinct b.branch\_name)=(SELECT COUNT(branch\_name)FROM branch

WHERE branch\_city='Delhi');



2. Find all customers who have a loan at the bank but do not have

an account.

select customer\_name from Borrower

where customer\_name not in(select customer\_name from Depositer);



3. Find all customers who have both an account and a loan at the

Bangalore branch

select distinct d.customer\_name from Depositer d

where d.customer\_name in(

select d.customer\_name from Branch b,depositer d,BankAccount ba

where b.branch\_city='bangalore'and b.branch\_name=ba.branch\_name

and ba.accno=d.accno and customer\_name IN(select customer\_name from Borrower));



4.Find the names of all branches that have greater assets than all

branches located in Bangalore.

select b.branch\_name from Branch b

where b.assets>ALL(select sum(b.assets) from Branch b where b.branch\_city='bangalore');



5. Demonstrate how you delete all account tuples at every branch

located in a specific city (Ex. Bombay).

delete from BankAccount where branch\_name =

(select branch\_name from Branch where branch\_city='Bombay');

6. Update the Balance of all accounts by 5%

UPDATE BankAccount set balance=(0.05\*balance)+balance;

select \* from BankAccount;

