**BANK DATABASE**

**WEEK 3**

# **INPUT:**

create database Bank;

use Bank;

create table Branch

(Branch\_name varchar(20) primary key,

branch\_city varchar(20),

assets float);

create table BankAccount

(Acc\_no int primary key,Branch\_name varchar(20),balance real,

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

alter table Branch modify assets real;

create table BankCustomer

(Customer\_name varchar(20) primary key,Customer\_street varchar(20),Customer\_city varchar(20));

create table Depositer

(Customer\_name varchar(20), Acc\_no int,

foreign key(Customer\_name) references BankCustomer(Customer\_name) on update cascade on delete cascade,

foreign key(Acc\_no) references BankAccount(Acc\_no) on update cascade on delete cascade);

create table Loan

(Loan\_no int primary key, Branch\_name varchar(20), amount real,

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

insert into branch values('sbi\_chamrajpet','bangalore',50000),('sbi\_residencyRoad','bangalore',10000),

('sbi\_shivajiRoad','mumbai',20000),('sbi\_parlimentRoad','delhi',10000),('sbi\_jantarmantar','delhi',20000);

select \* from branch;

insert into BankAccount values(1,'sbi\_chamrajpet',2000),(2,'sbi\_residencyRoad',5000),

(3,'sbi\_shivajiRoad',6000),(4,'sbi\_parlimentRoad',9000),(5,'sbi\_jantarmantar',8000);

select \* from bankaccount;

insert into BankCustomer values('avinash','bull\_temple\_road','bangalore'),('dinesh','banerghatta\_road','bangalore'),

('mohan','nationalCollege\_road','bangalore'),('nikhil','akbar\_road','delhi'),('ravi','prithviraj\_road','delhi');

select \* from bankcustomer;

insert into Depositer values('avinash',1),('dinesh',2),('nikhil',4),('ravi',5),('avinash',8),('mohan',11);

select \* from depositer;

insert into bankaccount values (8,'sbi\_shivajiRoad',6000),(11,'sbi\_chamrajpet',2000);

insert into Loan values (1, 'sbi\_chamrajpet',1000),(2,'sbi\_residencyRoad',2000),(3,'sbi\_shivajiRoad',3000),

(4,'sbi\_parlimentRoad',4000),(5,'sbi\_jantarmantar',5000);

select \* from loan;

# **QUERIES:**

1)

Find all the customers who have at least two accounts at the Main branch (ex.

SBI\_ResidencyRoad).

INPUT:select distinct(Customer\_name) from Depositer d, BankAccount b where (d.Acc\_no = b.Acc\_no and b.Branch\_name = 'sbi\_residencyRoad') having count(\*)>1;

OUTPUT:



2)

Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi).

INPUT:

select distinct(Customer\_name) from depositer d, Branch b, BankAccount ba where (d.Acc\_no = ba.Acc\_no and ba.Branch\_name = b.Branch\_name and b.branch\_city = 'delhi');

OUTPUT:



3)

Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).

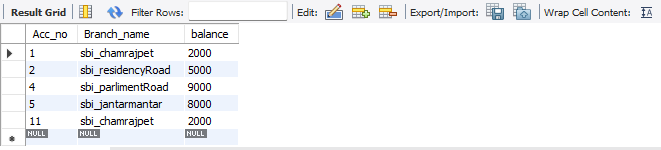
INPUT:

delete from BankAccount where Branch\_name in(select Branch\_name from Branch where Branch\_city = 'mumbai');

select \* from BankAccount;

OUTPUT:

2 row(s) affected



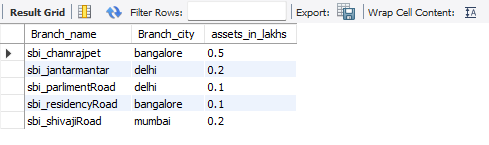
40

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

INPUT:

select Branch\_name, Branch\_city, (assets/100000) assets\_in\_lakhs from branch;

OUTPUT:



5)

CREATE A VIEW WHICH GIVES EACH BRANCH THE SUM OF THE  
AMOUNT OF ALL THE LOANS AT THE BRANCH.

INPUT:

insert into loan values (6,'sbi\_chamrajpet',10000);

create view Loan\_sum as select Branch\_name,sum(amount) from Loan group by Branch\_name;

select \* from Loan\_sum;

OUTPUT:

0 row(s) affected

