Week 4

create database bank\_data;

use bank\_data;

create table branch(

branch\_name varchar(255) primary key,

branch\_city varchar(255) not null,

assets float

);

create table bank\_account(

acc\_num int primary key,

branch\_name varchar(255),

balance float,

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

);

create table bank\_customer(

customer\_name varchar(255) primary key,

customer\_street varchar(255) not null,

city varchar(255) not null

);

create table depositer(

customer\_name varchar(255),

acc\_num int,

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

foreign key (acc\_num) references bank\_account (acc\_num),

foreign key (customer\_name) references bank\_customer (customer\_name)

);

create table loan(

loan\_num int primary key,

branch\_name varchar(255),

amount float,

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

);

insert into branch values

("SBI\_Chamrajpet", "Bangalore", 50000),

("SBI\_ResidencyRoad", "Bangalore", 10000),

("SBI\_ShivajiRoad", "Bombay", 20000),

("SBI\_ParlimentRoad", "Delhi", 10000),

("SBI\_Jantarmantar", "Delhi", 20000);

select \* from branch;

insert into bank\_account values

(1, "SBI\_Chamrajpet", 2000),

(2, "SBI\_ResidencyRoad", 5000),

(3, "SBI\_ShivajiRoad", 6000),

(4, "SBI\_ParlimentRoad", 9000),

(5, "SBI\_Jantarmantar", 8000),

(6, "SBI\_ShivajiRoad", 4000),

(7, "SBI\_ResidencyRoad", 4000),

(8, "SBI\_ParlimentRoad", 3000),

(9, "SBI\_ResidencyRoad", 5000),

(10, "SBI\_Jantarmantar", 2000);

select \* from bank\_account;

insert into bank\_customer values

("Avinash", "Bull Temple Road", "Bangalore"),

("Dinesh", "Bannergatta Road", "Bangalore"),

("Mohan", "National College Road", "Bangalore"),

("Nikil", "Akbar Road", "Delhi"),

("Ravi", "Prithviraj Road", "Delhi");

select \* from bank\_customer;

insert into depositer values

("Avinash", 1),

("Dinesh", 2),

("Nikil", 4),

("Ravi", 5),

("Avinash", 8),

("Nikil", 9),

("Dinesh", 10),("Nikil", 11);

select \* from depositer;

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;

select branch\_name, assets/100000 as assets\_in\_lakh from branch;

create view todo3 as

select d.acc\_num, branch\_name, customer\_name

from bank\_account b, depositer d

where d.acc\_num = b.acc\_num;

select \* from todo3;

select distinct customer\_name

from todo3 outerT

where 1 < (

select count(\*)

from todo3

where branch\_name = outerT.branch\_name and customer\_name = outerT.customer\_name

);

create view branch\_loans as

select branch\_name, amount

from loan;

select \* from branch\_loans;

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;

SELECT d.customer\_name

From bank\_account a,branch b, depositer d

WHERE b.branch\_name=a.branch\_name AND a.acc\_num=d.acc\_num 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');

select customer\_name from Borrower

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

select distinct d.customer\_name from depositer d

where d.customer\_name in(

select d.customer\_name from branch b,depositer d,bank\_account ba

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

and ba.acc\_num=d.acc\_num and customer\_name IN(select customer\_name from borrower));

select b.branch\_name from Branch b

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

select \* from branch;

delete from bank\_account where branch\_name =

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

select \* from branch;

UPDATE bank\_account set balance=(0.05\*balance)+balance;

select \* from bank\_account;