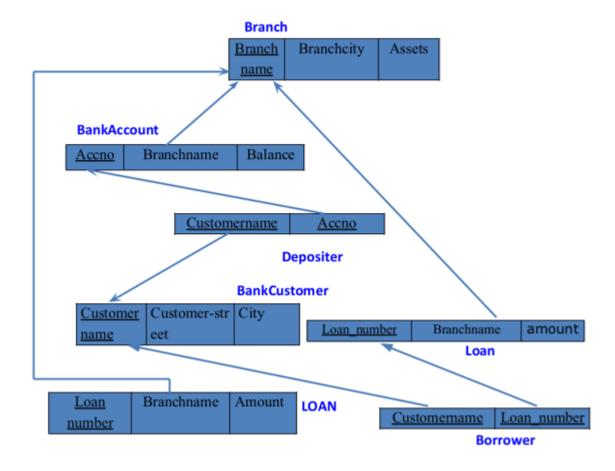
#### **WEEK 4 – MORE QUERIES ON BANK DATABASE**



### Create Borrower table by properly specifying the primary keys and foreign keys.

### (CREATION)

```
create table Borrower(
```

Customername varchar(20),

Loan number int,

foreign key(Customername) references BankCustomer(Customername),

foreign key(Loan\_number) references Loan(Loan\_number)

);

#### **Insert values into the Borrower table. (INSERTION)**

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

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

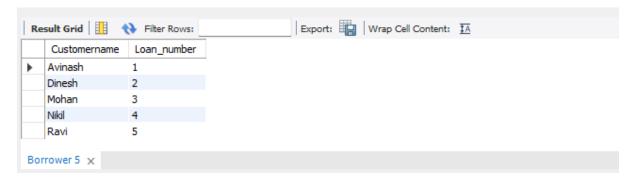
```
insert into Borrower values("Mohan",3);
insert into Borrower values("Nikil",4);
insert into Borrower values("Ravi",5);
```

### Extra insert queries.

```
insert into branch values("SBI_MantriMarg","Delhi",200000); insert into BankAccount values(12,"SBI_MantriMarg",2000); insert into Depositer values("Nikil",12);
```

### **Select new table. (SELECTION)**

select \* from Borrower;



#### **QUERIES-TO DO:**

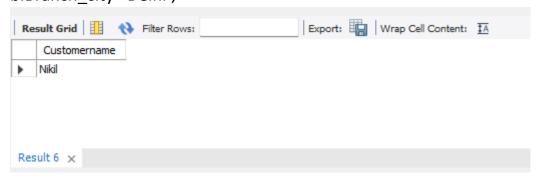
### 1. Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi).

select d.Customername from branch b, Depositer d, BankAccount bawhere

b.Branch\_city='Delhi' and d.Accno=ba.Accno and

b.Branch\_name=ba.Branch\_name

group by d.Customername having count(distinct b.Branch\_name)= (select count(distinct b.Branch\_name) from branch b where b.Branch\_city='Delhi';

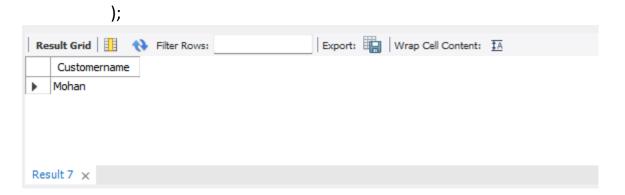


## 2. Find all customers who have a loan at the bank but do not have an account.

select distinct b.Customername from Borrower b, Depositer d where b.Customername NOT IN(

select d.Customername from Loan I,Depositer d, Borrower b

where I.Loan\_number=b.Loan\_number and d.Customername=b.Customername



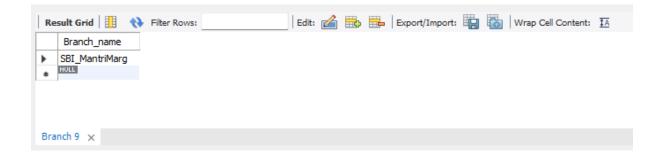
### 3. Find all customers who have both an account and a loan at the Bangalore branch.

select distinct d.Customername from Depositer d
where d.Customername IN(
select d.Customername from branch br,Depositer d,
BankAccount ba
where br.Branch\_city='Bangalore' and
br.Branch\_name=ba.Branch\_name
and ba.accno=d.accno and Customername IN(
select Customername from Borrower)

);

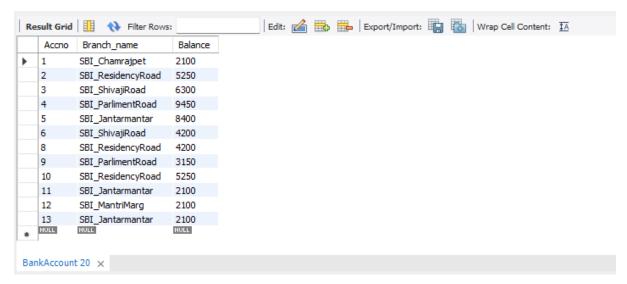


## 4. Find the names of all branches that have greater assets than all branches located in Bangalore.



#### 5. Update the Balance of all accounts by 5%

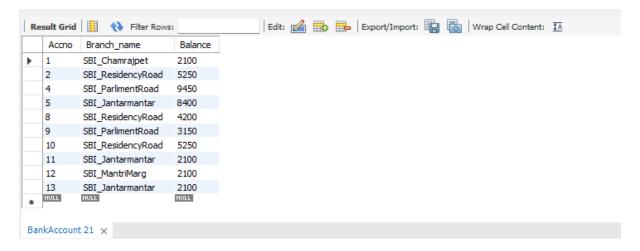
UPDATE BankAccount set Balance=(Balance + (Balance\*0.05));



## 6. <u>Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).</u>

delete ba.\* from BankAccount ba, branch b where branch city='Bombay' and ba.Branch name=b.Branch name;

select \* from BankAccount;



# SPOT QUERY: Demonstrate how to delete all the branches located in Bangalore

delete b.\* from branch b where Branch\_city='Bangalore';

### select \* from branch;

	branch_name	branch_city	assets
•	sbi_jantarMantar	delhi	20000
	sbi_mantriMarg	delhi	200000
	sbi_parliamentRoad	delhi	10000
	sbi_shivajiRoad	bombay	20000
	NULL	NULL	NULL

### select \* from BankAccount;

	accno	branch_name	balance
•	4	sbi_parliamentRoad	9450
	5	sbi_jantarMantar	8400
	9	sbi_parliamentRoad	3150
	11	sbi_jantarMantar	2100
	12	sbi_mantriMarg	2100
	NULL	HULL	NULL

### select \* from Loan;

	loan_no	branch_name	amount
•	3	sbi_shivajiRoad	3000
	4	sbi_parliamentRoad	4000
	5	sbi_jantarMantar	5000
	NULL	HULL	NULL
_			