Assignment 2

DBMS LAB

IT552

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Fifth Semester

Information Technology (HY)

Creating Tables

```
-- create branch table
create table Branch(
B_name varchar(10) primary key,
City varchar(10),
check (City in ('Kolkata','Delhi','Mumbai'))
);
-- create customer table
create table Customer (
C_name varchar(10) primary key,
City varchar(10) not null,
check(C_name = upper(C_name))
);

-- create Deposit table

create table Deposit (
Act_no varchar (10) primary key,
C_name varchar(10),
B_name varchar(10),
Amount bigint not null,
foreign key(C_name) references Customer(C_name),
foreign key(B_name) references Branch(B_name)
);

-- Create Borrow Table
```

```
create table Borrow(
Loan_no varchar(10) primary key,
C_name varchar(10),
B_name varchar(10),
Amount bigint,
foreign key (C_name) references Customer(C_name),
foreign key (B_name) references Branch(B_name),
check (Amount >1000),
check (Loan_no = upper(Loan_no))
);
```

Inserting Values

```
-- inseting values into Branch
insert into Branch(
B_name, City
) values(
'Andheri','Mumbai'
);
insert into Branch(
B_name, City
) values(
'Faridabad','Delhi'
);
insert into Branch(
B_name, City
) values(
'Jadavpur','Kolkata'
);
```

```
insert into Branch(
B_name, City
) values(
'Chembur','Mumbai'
);
-- inserting values into Customer
insert into Customer(
C_name, City
) values (
'Peter','Mumbai'
);
insert into Customer(
C_name, City
) values (
'Clark','Kolkata'
);
insert into Customer(
C_name, City
) values (
'Bruce','Mumbai'
);
insert into Customer(
C_name, City
) values (
'Tony','Delhi'
);
-- insert values into Deposit
```

```
insert into Deposit(
Act_no, C_name, B_name, Amount
) values (
'PAR121','PETER','Chembur',5000
);
insert into Deposit(
Act_no, C_name, B_name, Amount
) values (
'KEN131','CLARK','Jadavpur',3500
);
insert into Deposit(
Act_no, C_name, B_name, Amount
) values (
'WAY561','BRUCE','Andheri',7000
);
insert into Deposit(
Act_no, C_name, B_name, Amount
) values (
'STA901','TONY','Faridabad',9000
);
-- insert values into Borrow
insert into Borrow(
Loan_no, C_name, B_name, Amount
) values (
'LNJDP1','PETER','Jadavpur',5000
);
insert into Borrow(
```

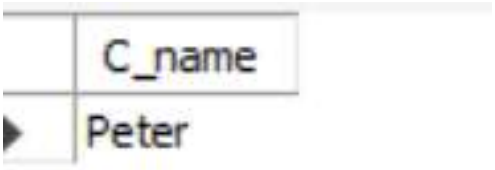
```
Loan_no, C_name, B_name, Amount
) values (
'LNJDP2','CLARK','Jadavpur',3000
);
insert into Borrow(
Loan_no, C_name, B_name, Amount
) values (
'LNCHM1','BRUCE','Chembur',2000
);
insert into Borrow(
Loan_no, C_name, B_name, Amount
) values (
'LNAND1','TONY','Andheri',8000
);
```

Q1. Give the name of the customers having living City Mumbai and Branch City Kolkata

Using MySQL

```
select Customer.C_name
from Deposit,Customer,Branch
where Deposit.C_name = Customer.C_name
     and Branch.B_name = Deposit.B_name
    and Customer.City = 'Mumbai'
    and Branch.City = 'Kolkata'
union
select Customer.C_name
from Borrow, Customer, Branch
```

```
where
    Borrow.C_name = Customer.C_name
    and Customer.City = 'Mumbai'
    and Branch.B_name = Borrow.B_name
    and Branch.City = 'Kolkata';
```

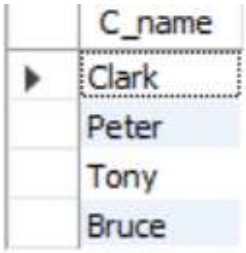


C_name
Peter

Q2. Give the names of the customers having the same living city as their branch city Kolkata

Using MySQL

```
select Customer.C_name
from Deposit, Customer, Branch
where
    Deposit.C_name = Customer.C_name
    and Deposit.B_name = Branch.B_name
    and Customer.City = Branch.City
union
select Customer.C_name
from Borrow, Customer, Branch
where
    Borrow.C_name = Customer.C_name
    and Borrow.B_name = Branch.B_name
    and Customer.City = Branch.City;
```

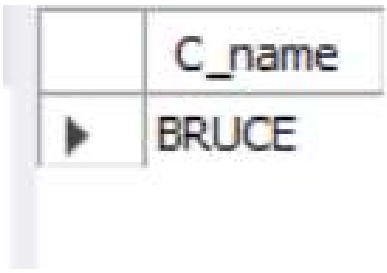


C_name
Clark
Peter
Tony
Bruce

Q3. Give the names of the customers who are deposits and have the same branch city as that of Peter

Using MySQL

```
select distinct C_name
from Deposit, Branch
where
    Deposit.B_name = Branch.B_name
    and Branch.City = (
        select City
        from Deposit, Branch
        where
            C_name = 'PETER'
            and Deposit.B_name = Branch.B_name)
    and not C_name = 'PETER';
```



C_name
BRUCE