**Name: SHAMJAD MAZOOD NAZER**

**Roll No: 36**

**Batch: RMCA-B**

**Date: 06-05-2022**

**ADVANCED DATABASE MANAGEMENT SYSTEM LAB**

**Experiment No.: 6**

**Aim**

To familiarize with join or Cartesian product.

**Questions**

1.Give name of customers having living city BOMBAY and branch city NAGPUR

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

3.Give names of customers who are borrowers as well as depositors and having city

NAGPUR.

4.Give names of borrowers having deposit amount greater than 1000 and loan amount greater

than 2000.

5.Give names of depositors having the same branch as the branch of Sunil

6.Give names of borrowers having loan amount greater than the loan amount of Pramod

7.Give the name of the customer living in the city where branch of depositor Sunil is located.

8.Give branch city and living city of Pramod

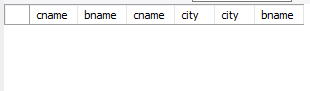
9.Give branch city of Sunil and branch city of Anil

10.Give the living city of Anil and the living city of Sunil

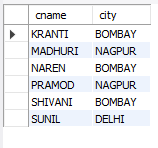
**Procedure**

USE BANK;

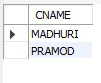
SELECT D1.CNAME, D1.BNAME, C1.CNAME, C1.CITY, B1.CITY, B1.BNAME FROM DEPOSIT D1, CUSTOMER C1, BRANCH B1 WHERE C1.CITY ="BOMBAY" AND B1.CITY ="NAGPUR" AND D1.CNAME = C1.CNAME AND D1.BNAME = B1.BNAME;



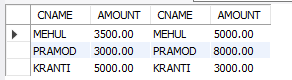
SELECT DISTINCT(CUSTOMER.CNAME), BRANCH.CITY FROM BRANCH, CUSTOMER WHERE BRANCH.CITY = CUSTOMER.CITY;



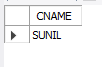
SELECT C1.CNAME FROM CUSTOMER C1, DEPOSIT D1, BORROW B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.CNAME = B1.CNAME;



SELECT D1.CNAME, D1.AMOUNT, B1.CNAME, B1.AMOUNT FROM DEPOSIT D1, BORROW B1 WHERE B1.CNAME = D1.CNAME AND B1.AMOUNT > 2000 AND D1.AMOUNT > 1000;



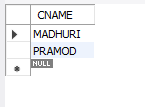
SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME="SUNIL");



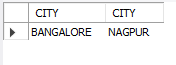
SELECT B1.CNAME, B1.AMOUNT FROM BORROW B1 WHERE B1.AMOUNT > ALL(SELECT B2.AMOUNT FROM BORROW B2 WHERE B2.CNAME="PRAMOD");



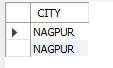
SELECT C.CNAME FROM CUSTOMER C WHERE C.CITY IN (SELECT B.CITY FROM BRANCH B WHERE B.BNAME IN (SELECT D.BNAME FROM DEPOSIT D WHERE D.CNAME='SUNIL'));



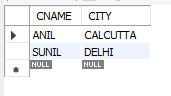
SELECT B1.CITY , C1.CITY FROM BRANCH B1,CUSTOMER C1, DEPOSIT D1 WHERE C1.CNAME = 'PRAMOD' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME;



SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME = B1.BNAME AND D1.CNAME IN ('SUNIL' ,'ANIL');



SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE C1.CNAME = 'ANIL' OR C1.CNAME = 'SUNIL';



**Output Screenshot**

**Name: SHAMJAD MAZOOD NAZER**

**Roll No: 36**

**Batch: RMCA-B**

**Date: 06-05-2022**

**ADVANCED DATABASE MANAGEMENT SYSTEM LAB**

**Experiment No.: 7**

**Aim**

To familiarize with Group by and Having clause

**Questions**

1.List the branches having sum of deposit more than 5000.

2.List the branches having sum of deposit more than 500 and located in city BOMBAY

3.List the names of customers having deposited in the branches where the average deposit is

more than 5000.

4.List the names of customers having maximum deposit

5.List the name of branch having highest number of depositors?

6.Count the number of depositors living in NAGPUR.

7.Give names of customers in VRCE branch having more deposit than any other customer in

same branch

8.Give the names of branch where number of depositors is more than 5

9.Give the names of cities in which the maximum number of branches are located

10.Count the number of customers living in the city where branch is located

**Procedure**

use bank;

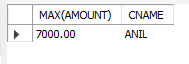
SELECT D.BNAME FROM DEPOSIT D, BRANCH B WHERE D.BNAME=B.BNAME GROUP BY D.BNAME HAVING SUM(D.AMOUNT)>5000;



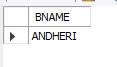
select CNAME from deposit where AMOUNT = (select AVG(Amount) from DEPOSIT GROUP BY BNAME having AVG(Amount)>5000);



SELECT MAX(AMOUNT), CNAME FROM DEPOSIT;



SELECT D1.BNAME FROM DEPOSIT D1 GROUP BY D1.BNAME HAVING COUNT(D1.CNAME) >= ALL (SELECT COUNT(D2.CNAME) FROM DEPOSIT D2 GROUP BY D2.BNAME);



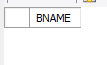
SELECT COUNT(DEPOSIT.CNAME)FROM DEPOSIT,CUSTOMER WHERE CUSTOMER.CITY='NAGPUR';



SELECT CNAME FROM DEPOSIT WHERE BNAME = 'VRCE' AND AMOUNT = (SELECT MAX(AMOUNT) FROM DEPOSIT WHERE BNAME='VRCE');



SELECT BNAME FROM DEPOSIT GROUP BY BNAME HAVING COUNT(BNAME)>5;



SELECT C.CNAME, COUNT(B.BNAME) FROM CUSTOMER C INNER JOIN BRANCH B ON C.CNAME = B.BNAME GROUP BY C.CNAME ORDER BY COUNT(B.BNAME) DESC;



SELECT COUNT(B1.BNAME) FROM DEPOSIT D1, BORROW B1, CUSTOMER C1 WHERE C1.CNAME=D1.CNAME AND D1.CNAME = B1.CNAME AND C1.CITY IN(SELECT CITY FROM CUSTOMER);

