Experiment 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

Answers

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

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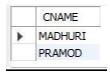AND B1.CITY = 'NAGPUR' AND D1.CNAME = C1.CNAME AND
D1.BNAME = B1.BNAME;

CNAME	BNAME	CNAME	CITY	CITY	BNAME

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

SELECT distinct(customer.CNAME), BRANCH.CITY FROM BRANCH,
customer WHERE BRANCH.city = customer.city;

CNAME	CITY
KRANTI	BOMBAY
MADHURI	NAGPUR
NAREN	BOMBAY
PRAMOD	NAGPUR
SHIVANI	BOMBAY
SUNIL	DELHI

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

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

CNAME
MADHURI
PRAMOD

4.Give names of borrowers having deposit amount greater than 1000 and loan amount greater than 2000.

SELECT BR1.CNAME, BR1.AMOUNT, D1.CNAME, D1.AMOUNT FROM BORROW BR1,DEPOSIT D1 WHERE D1.CNAME = BR1.CNAME AND D1.AMOUNT >1000 AND BR1.AMOUNT > 2000;

CNAME	AMOUNT	CNAME	AMOUNT
MEHUL	5000	MEHUL	3500
PRAMOD	8000	PRAMOD	3000
KRANTI	3000	KRANTI	5000

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

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

CNAME
SUNIL

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

SELECT BR1.CNAME,BR1.AMOUNT FROM BORROW BR1 WHERE
BR1.AMOUNT > ALL (SELECT BR2.AMOUNT FROM BORROW BR2
WHERE BR2.CNAME = 'PRAMOD');

CNAME	AMOUNT

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

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
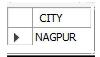D WHERE D.CNAME='SUNIL'));

CNAME
NULL

8.Give branch city and living city of Pramod

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;

CITY	CITY
BANGALORE	NAGPUR

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

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

CITY
NAGPUR

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

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

CNAME	CITY
ANIL	CALCUTTA
SUNIL	DELHI
NULL	NULL