

EXPERIMENT NO. 6

AIM

To familiarize with join or cartesian product

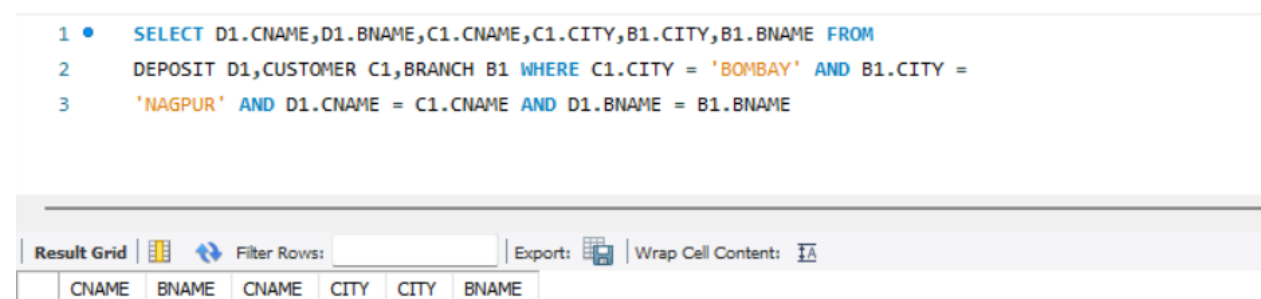
Questions

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

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
```



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;
```

```

1 • SELECT DISTINCT(CUSTOMER.CNAME), BRANCH.CITY FROM BRANCH, CUSTOMER
2 WHERE BRANCH.CITY = CUSTOMER.CITY;
3

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
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;

```

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

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
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;

```

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

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
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');
```

The screenshot shows a query editor with the following SQL query:

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

Below the query editor is a toolbar with options: Result Grid, Filter Rows, Export, and Wrap Cell Content. The Result Grid shows the following data:

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');
```

The screenshot shows a query editor with the following SQL query:

```
1 • SELECT BR1.CNAME, BR1.AMOUNT FROM BORROW BR1 WHERE BR1.AMOUNT > ALL  
2 (SELECT BR2.AMOUNT FROM BORROW BR2 WHERE BR2.CNAME = 'PRAMOD');  
3
```

Below the query editor is a toolbar with options: Result Grid, Filter Rows, Export, and Wrap Cell Content. The Result Grid shows the following data:

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'));
```

The screenshot shows a query editor with the following SQL query:

```
1 • SELECT C.CNAME FROM CUSTOMER C WHERE C.CITY IN (SELECT B.CITY FROM BRANCH B WHERE B.BNAME IN  
2
```

Below the query editor is a toolbar with options: Result Grid, Filter Rows, Edit, Export/Import, and Wrap Cell Content. The Result Grid shows the following data:

CNAME
HULL

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';
```

```

1 • SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE C1.CNAME = 'ANIL' OR
2 C1.CNAME = 'SUNIL';
3

```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
CNAME	CITY			
ANIL	CALCUTTA			
SUNIL	DELHI			
NULL	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;

```

1 • SELECT B1.CITY, C1.CITY FROM BRANCH B1, CUSTOMER C1, DEPOSIT D1 WHERE
2 C1.CNAME = 'PRAMOD' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME;
3

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
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');

```

1 • SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME = B1.BNAME
2 AND D1.CNAME IN ('SUNIL', 'ANIL');
3

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
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';

```
1 • SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE C1.CNAME = 'ANIL' OR
2 C1.CNAME = 'SUNIL';
3
```

Result Grid			Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
	CNAME	CITY				
▶	ANIL	CALCUTTA				
	SUNIL	DELHI				
*	NULL	NULL				