[21bcs048@mepcolinux join]\$clear [21bcs048@mepcolinux join]\$ls jo join.prn [21bcs048@mepcolinux join]\$cat jo

#### 1.NATURAL JOIN

==========

## 1.NATURAL JOIN BETWEEN THE USER1 AND THE CREDITCARD TABLE.

select \* FROM USER1 natural join CREDITCARD;

<b>USERID NAME</b>	PHONENO MAIL	ADHAARID LICENCENO	TID ADDRESS
CID CVV TYPE			
303 SURESH 291726 100001 TI	9098751231 suresh@gmail.co RAVEL	om 4587234 2367645	9 104 KARUR
301 SRI 29139 65453 STU	9087654341 sri@gmail.com DENT	2838501 34678262	102 MADURAI
355 ABI 311 50000 STUDE	9800003217 abi@gmail.com ENT	2815099 67312653	109 DPI
302 BALA 29000 11000 BUS	9098754321 bala@gmail.com SINESS	6578432 45367892	105 SALEM
370 VICKY 29780 100001 STU	9990003217 vicky@gmail.com JDENT	2815067 54231755	108 HARUR
	NATURAL JOIN USING	CONDITION	

PERFORM NATURAL JOIN WHEN USERID IS 301:

SQL COMMAND:

SELECT \* FROM USER1 NATURAL JOIN CREDITCARD WHERE USERID=301;

OUTPUT:

USERID NA	ME PHONENO MAIL	ADHAARID LICENCENO	TID ADDRESS
CID CVV	ГҮРЕ		
301 SRI	9087654321 sri@gmail.com	2838501 34678262	102 MADURAI
29132 654	53 STUDENT		
301 SRI	9087654321 sri@gmail.com	2838501 34678262	102 MADURAI
29139 654	53 STUDENT		

## NATURAL JOIN USING THREE TABLES.

SELECT \* FROM USER1 NATURAL JOIN(SELECT \* FROM CREDITCARD NATURAL JOIN GIFTCARD) WHERE USERID=USERID;

USERID NA CID CVV 1			ADHAARID LI IT GVALID	ICENCENO	TID ADDRESS
301 SRI 29139 654	9087654341 sri@ 53 STUDENT		2838501 34 07-FEB-30	4678262 1	02 MADURAI
303 SURE 291726 100	SH 9098751231 s 0001 TRAVEL	suresh@gmail.c 590	com 458723 8000 04-APR-3		104 KARUR
303 SURE 291726 100	SH 9098751231 s 0001 TRAVEL	suresh@gmail.c	com 458723 70987 09-MAY-		104 KARUR
355 ABI 311 50000	9800003217 abid	- 0	2815099 6 07-JAN-50	57312653	109 DPI

370 VICKY 9990003217 vicky@gmail.com 2815067 54231755 108 HARUR 29780 100001 STUDENT 530 38887 04-DEC-90

## 2.CARTESIAN JOIN

1. CARTESIAN JOIN BETWEEN USER1 TABLE AND THE GIFTCARD TABLE.

SELECT \* FROM USER1 cross join GIFTCARD;

	D NAME USERID	PHONENO MAIL AMOUNT GVALID	ADHAARID LICENCENO	TID ADDRESS
301 570	1 SRI 301	9087654341 sri@gmail.com 5000 07-FEB-30	2838501 34678262	102 MADURAI
302 570	2 BALA 301	9098754321 bala@gmail.con 5000 07-FEB-30	n 6578432 4536789	2 105 SALEM
303 570	301	H 9098751231 suresh@gmail 5000 07-FEB-30	.com 4587234 23676	459 104 KARUR
355 570	5 ABI 301	9800003217 abi@gmail.com 5000 07-FEB-30	2815099 67312653	109 DPI

30 rows selected.

USING CONDITION CARTESIAN JOIN

\_\_\_\_\_

(1)SQL COMMAND:

## SQL> SELECT \* FROM GIFTCARD G,USER1 U WHERE G.USERID=U.USERID;

GID ADHAARI	USERID D LICEN		USERID NAME SS	PHONENO MAIL
570	301	20000 07-FEB-30	301 SRI	9087654341 sri@gmail.com 2838501
34678262	2 102	2 MADURAI		
590	303	8000 04-APR-30	303 SURESH	9098751231 suresh@gmail.com
4587234	236764	159 104 KARUR		
540	303	70987 09-MAY-80	303 SURESH	9098751231 suresh@gmail.com
4587234	236764	159 104 KARUR		
548	355	34987 07-JAN-50	355 ABI	9800003217 abi@gmail.com
2815099	673126	553 109 DPI		
530	370	38887 04-DEC-90	370 VICKY	9990003217 vicky@gmail.com
2815067	542317	755 108 HARUR		, - 6

# (2) SELECT \* FROM USER1 U,GIFTCARD G;

<b>USERID NAME</b>		ME PHONENO MAIL	ADHAARID LICENCEN	O TID ADDRESS
GID	USERID	AMOUNT GVALID		
3(	01 SRI	9087654341 sri@gmail.com	2838501 34678262	102 MADURAI
570	301	5000 07-FEB-30		
30	O1 SRI	9087654341 sri@gmail.com	2838501 34678262	102 MADURAI
590	303	8000 04-APR-30		
3(	O1 SRI	9087654341 sri@gmail.com	2838501 34678262	102 MADURAI
540	303	70987 09-MAY-80		
0.0		, , , , , , , , , , , , , , , , , , , ,		
30	O1 SRI	9087654341 sri@gmail.com	2838501 34678262	102 MADURAI
548	355	34987 07-JAN-50		

3)CROSS JOIN USING CONDITION.

SQL> select \* from user1 cross join giftcard where user1.userid=giftcard.userid;

	RID NAN USERID		HAARID LICENCENO	TID ADDRESS
30 570	1 SRI 301	9087654341 sri@gmail.com 28 5000 07-FEB-30	38501 34678262	102 MADURAI
303 590	3 SURES 303	SH 9098751231 suresh@gmail.com 8000 04-APR-30	4587234 23676459	9 104 KARUR
303 540	3 SURES 303	SH 9098751231 suresh@gmail.com 70987 09-MAY-80	4587234 23676459	9 104 KARUR
35. 548	5 ABI 355	9800003217 abi@gmail.com 23 34987 07-JAN-50	815099 67312653	109 DPI
370 530	0 VICKY 370	9990003217 vicky@gmail.com 38887 04-DEC-90	2815067 54231755	108 HARUR

3.OUTER JOIN.

========

1.LEFT OUTER JOIN BETWEEN THE TABLES USER1 AND CREDITCARD.

SELECT \* FROM USER1 U LEFT OUTER JOIN CREDITCARD C ON U.USERID=C.USERID;

OUTPUT:

======

USERID NAME PHONENO MAIL ADHAARID LICENCENO TID ADDRESS

CID CVV USERID TYPE

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-- -----

303 SURESH 9098751231 suresh@gmail.com 4587234 23676459 104 KARUR

291726 100001 303 TRAVEL

301 SRI 9087654341 sri@gmail.com 2838501 34678262 102 MADURAI

29139 65453 301 STUDENT

355 ABI 9800003217 abi@gmail.com 2815099 67312653 109 DPI

311 50000 355 STUDENT

302 BALA 9098754321 bala@gmail.com 6578432 45367892 105 SALEM

29000 11000 302 BUSINESS

370 VICKY 9990003217 vicky@gmail.com 2815067 54231755 108 HARUR

29780 100001 370 STUDENT

330 PRABU 9991103217 prabu@gmail.com 2812367 87242751 107 CHENNAI

6 rows selected.

LEFT OUTER JOIN USING CONDITION:

DISPLAY THE DETAILS OF THE USERID WHOSE AMOUNT IS GREATER THAN THE 20000 RUPEES.

#### SELECT U.USERID AS

U\_USERID,NAME,PHONENO,MAIL,ADHAARID,LICENCENO,TID,ADDRESS,G.USERID AS G\_USERID,GID,AMOUNT GVALID FROM USER1 U LEFT OUTER JOIN GIFTCARD G ON U.USERID=G.USERID WHERE AMOUNT>20000;

U\_USERID NAME PHONENO MAIL ADHAARID LICENCENO TID ADDRESS

G\_USERID GID GVALID

------

-- -----

303 SURESH 9098751231 suresh@gmail.com 4587234 23676459 104 KARUR

303 540 70987

355 ABI 9800003217 abi@gmail.com 2815099 67312653 109 DPI

355 548 34987

370 VICKY 9990003217 vicky@gmail.com 2815067 54231755 108 HARUR 370 530 38887

2.RIGHT OUTER JOIN BETWEEN THE TABLES USER1 AND GIFTCARD.

SELECT \* FROM USER1 U RIGHT OUTER JOIN GIFTCARD G ON U.USERID=G.USERID;

USER	RID NAI	ME PHONENO MAIL ADHAARID LICENCENO TID ADDRESS
GID (	JSERID	AMOUNT GVALID
301	L SRI	9087654341 sri@gmail.com 2838501 34678262 102 MADURAI
570	301	20000 07-FEB-30
202	CLIDE	SH 9098751231 suresh@gmail.com 4587234 23676459 104 KARUR
	3 SURES	
590	303	8000 04-APR-30
303	SURES	SH 9098751231 suresh@gmail.com 4587234 23676459 104 KARUR
540	303	70987 09-MAY-80
355	5 ABI	9800003217 abi@gmail.com 2815099 67312653 109 DPI
548	355	34987 07-JAN-50
270	NACIO	0000003317 viola @ gracil com 2015067 54331755 400 HABUD
	) VICKY	9990003217 vicky@gmail.com 2815067 54231755 108 HARUR
530	370	38887 04-DEC-90

RIGHT OUTER JOIN USING CONDITION:

DISPLAY THE DETAILS OF THE USER WHO IS HAVE TYPE TRAVEL.

## SELECT U.USERID AS

U\_USERID,NAME,PHONENO,MAIL,ADHAARID,LICENCENO,TID,ADDRESS,G.USERID AS G\_USERID,CID,CVV,TYPE FROM USER1 U RIGHT OUTER JOIN CREDITCARD G ON U.USERID=G.USERID WHERE TYPE='TRAVEL';

U_USERID N	AME	PHONENO MAIL	ADHAARID LICENCENO	TID ADDRESS
G_USERID	CID	CVV TYPE		
_				

303 SURESH 9098751231 suresh@gmail.com 4587234 23676459 104 KARUR 303 291726 100001 TRAVEL

3.FULL OUTER JOIN BETWEEN USER1 AND THE CREDITCARD TABLE.

SELECT NAME,PHONENO,MAIL,ADHAARID,LICENCENO,TID,ADDRESS,U.USERID AS U\_USERID,C.USERID AS C\_USERID FROM USER1 U FULL OUTER JOIN CREDITCARD C ON U.USERID=C.USERID;

NAME U_USE	RID (	PHONENO MAIL C_USERID	ADHAARID LICENCENO TI	D ADDRESS
SURESH 303	1 303	9098751231 suresh@gmail.	com 4587234 23676459	104 KARUR
SRI 301	301	9087654341 sri@gmail.com	2838501 34678262 10	02 MADURAI
ABI 355	355	9800003217 abi@gmail.com	2815099 67312653 1	.09 DPI
BALA 302	302	9098754321 bala@gmail.com	6578432 45367892	105 SALEM
VICKY 370	370	9990003217 vicky@gmail.con	n 2815067 54231755	108 HARUR
PRABU 330		9991103217 prabu@gmail.co	om 2812367 87242751	107 CHENNAI

6 rows selected.

FULL OUTER JOIN USING CONDITION:

#### DISPLAY THE USER DETAILS WHO HAS THE CVV 65453.

#### **SELECT U.USERID AS**

301 29139 65453 STUDENT

U\_USERID,NAME,PHONENO,MAIL,ADHAARID,LICENCENO,TID,ADDRESS,G.USERID AS G\_USERID,CID,CVV,TYPE FROM USER1 U FULL OUTER JOIN CREDITCARD G ON U.USERID=G.USERID WHERE CVV=65453;

U_USERID N	NAME	PHONENO MAIL	ADHAAR	ID LICENCENO	TID ADDRESS
G_USERID	CID	CVV TYPE			
301 SRI		9087654341 sri@gmail.com	2838501	34678262	102 MADURAI

#### 4.INNER JOIN

==========

SQL> SELECT \* FROM USER1 INNER JOIN CREDITCARD ON USER1.USERID=CREDITCARD.CID;

OUTPUT:

USERID NAME

CID CVV USERID TYPE	
303 SURESH 9098751231 suresh@gmail.com 4587234 23676459 104 KARU 291726 100001 303 TRAVEL	R
301 SRI 9087654341 sri@gmail.com 2838501 34678262 102 MADURAI 29139 65453 301 STUDENT	
355 ABI 9800003217 abi@gmail.com 2815099 67312653 109 DPI 311 50000 355 STUDENT	
302 BALA 9098754321 bala@gmail.com 6578432 45367892 105 SALEM 29000 11000 302 BUSINESS	
370 VICKY 9990003217 vicky@gmail.com 2815067 54231755 108 HARUR 29780 100001 370 STUDENT	

PHONENO MAIL ADHAARID LICENCENO TID ADDRESS

INNER JOIN USING					
1)DISPLAY THE DET	AILS OF THE USER W	/HOSE GID IS GI	REATER THAN T	HE 550.	
_	AS HONENO,MAIL,ADH OUNT GVALID FROM				
G_USERID GID					
301 SRI 301 570 200	_				
303 SURESH 303 590 800		uresh@gmail.co	om 4587234	23676459	104 KARUR
	SELF J0				
1)DISPLAY THE DET	AILS OF THE USER1	FIELDS USERID,I	NAME,MAIL AN	D ADDRESS.	
SQL COMMAND:					
	JSERID,U.NAME UNA C ON U.MAIL=C.MA		AIL,C.ADDRESS	CADDRESS F	ROM USER1 U
USERID UNAME	CMAIL	CADDRESS			
301 SRI	sri@gmail.com	MADURAI			

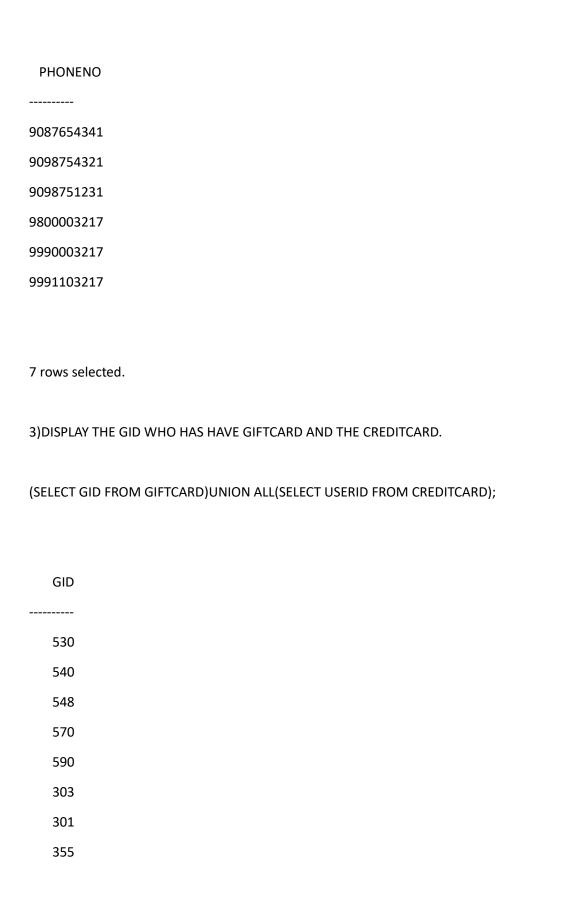
bala@gmail.com

302 BALA

SALEM

2)DISPLAY THE PHONENO WHOSE USERID IS GREATER THAN THE 300 AND TID IS GREATER THAN 100.

SQL> (SELECT PHONENO FROM USER1 WHERE TID>100)UNION(SELECT PHONENO FROM USER1 WHERE USERID>300);



302
370
10 rows selected.
2.INTERSECTION OPERATION.
=======================================
1)DISPLAY THE USERID WHO HAS A GIFTCARD.
(SELECT USERID FROM USER1)INTERSECT(SELECT USERID FROM GIFTCARD);
USERID
301
302
303
2)DISPLAY USERID WHO BOTH THE AMOUNT GREATER THAN 10000 AND THE TYPE IS THE STUDENT.
(SELECT USERID FROM GIFTCARD WHERE AMOUNT>10000)INTERSECT ALL (SELECT USERID FROM
CREDITCARD WHERE TYPE='STUDENT');
USERID
370
355
3.EXCEPT OPERATION.
=======================================

1)DISPLAY THE USERID WHO HAS NOT HAVE A NAME SRI AND NOT TID AS 102.
(select userid from user1)except(select userid from user1 where name='SRI' and tid=102);
USERID
<del></del>
302
303
330
340
355
370
6 rows selected.
2)DISPLAY THE GID WHO HAS NOT HAVE A USERID 301.
(SELECT GID FROM GIFTCARD)EXCEPT ALL(SELECT GID FROM GIFTCARD WHERE USERID=301);
GID
505
506
509
515