Batch: A1	
Roll No.:	16010120006
	16010120015
	16010120018
Experiment / assignment / tutorial No. **5(Joins)**	
Grade: AA / AB / BB / BC / CC / CD /DD	

Title: JOINS

Query:- Select SSN0 and DSSN from SOLDIERS and DEPENDANT tables where values of SOLDIER NUMBER in both tables are same

Natural Join

SELECT *

FROM SOLDIERS NATURAL JOIN DEPENDANT;

```
149
150  //    JOINS
151
152  Query:- Select SSN0 and DSSN from SOLDIERS  and DEPENDANT tables where values of SOLDIER NUMBER  in both tables are same
153
154  Natural Join
155
156  SELECT *
157
158  FROM SOLDIERS NATURAL JOIN DEPENDANT;
159
```
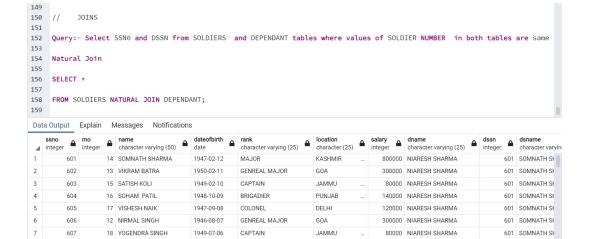
Data Output | Explain | Messages | Notifications

	ssno integer	rno integer	name character varying (50)	dateofbirth date	rank character varying (25)	location character (25)	salary integer	dname character varying (25)	dssn integer	dsname character varyin
1	601	14	SOMNATH SHARMA	1947-02-12	MAJOR	KASHMIR ...	800000	NIARESH SHARMA	601	SOMNATH SH
2	602	13	VIKRAM BATRA	1950-02-11	GENREAL MAJOR	GOA	300000	NIARESH SHARMA	601	SOMNATH SH
3	603	15	SATISH KOLI	1949-02-10	CAPTAIN	JAMMU ...	80000	NIARESH SHARMA	601	SOMNATH SH
4	604	16	SOHAM PATIL	1948-10-09	BRIGADIER	PUNJAB ...	140000	NIARESH SHARMA	601	SOMNATH SH
5	605	17	VISHESH NAIK	1947-09-08	COLONEL	DELHI	120000	NIARESH SHARMA	601	SOMNATH SH
6	606	12	NIRMAL SINGH	1946-08-07	GENREAL MAJOR	GOA	300000	NIARESH SHARMA	601	SOMNATH SH
7	607	18	YOGENDRA SINGH	1949-07-06	CAPTAIN	JAMMU ...	80000	NIARESH SHARMA	601	SOMNATH SH
8	608	19	DYANCHAND THAPA	1948-06-05	BRIGADIER	PUNJAB ...	140000	NIARESH SHARMA	601	SOMNATH SH
9	609	20	VISHAL NAIK	1947-05-04	COLONEL	DELHI	120000	NIARESH SHARMA	601	SOMNATH SH
10	610	21	OMKAR SINGH	1947-04-03	COLONEL	DELHI	120000	NIARESH SHARMA	601	SOMNATH SH

Query:- Show all columns from SOLDIERS and DEPARTMENT tables where DNO and RNO from SOLDIER is equal to SoldierRNO.

Left Outer Join

SELECT *

FROM SOLDIERS LEFT JOIN DEPARTMENT

ON soldiers.rno = department.dno;

```
160
161  Query:- Show all columns from SOLDIERS and DEPARTMENT tables where DNO and RNO from SOLDIER is equal to SoldierRNO.
162  |
163  Left Outer Join
164
165  SELECT *
166  FROM SOLDIERS LEFT JOIN DEPARTMENT
167  ON soldiers.rno = department.dno;
```

Data Output | Explain | Messages | Notifications

	ssno integer	rno integer	name character varying (50)	dateofbirth date	rank character varying (25)	location character (25)		salary integer	drno integer	dname character (25)	dno integer	dlocat charac
6	605	17	VISHESH NAIK	1947-09-08	COLONEL	DELHI	...	120000	6	MAPS DATABASE	17	KAS
7	604	16	SOHAM PATIL	1948-10-09	BRIGADIER	PUNJAB	...	140000	7	CANTEEN	16	PUN
8	604	16	SOHAM PATIL	1948-10-09	BRIGADIER	PUNJAB	...	140000	8	FRUITS	16	PUN
9	604	16	SOHAM PATIL	1948-10-09	BRIGADIER	PUNJAB	...	140000	9	TRANSPORT SERVICES	16	PUN
10	604	16	SOHAM PATIL	1948-10-09	BRIGADIER	PUNJAB	...	140000	10	GUARDS	16	PUN
11	609	20	VISHAL NAIK	1947-05-04	COLONEL	DELHI	...	120000	[null]	[null]	[null]	[nul
12	606	12	NIRMAL SINGH	1946-08-07	GENREAL MAJOR	GOA	...	300000	[null]	[null]	[null]	[nul
13	607	18	YOGENDRA SINGH	1949-07-06	CAPTAIN	JAMMU	...	80000	[null]	[null]	[null]	[nul
14	610	21	OMKAR SINGH	1947-04-03	COLONEL	DELHI	...	120000	[null]	[null]	[null]	[nul
15	608	19	DYANCHAND THAPA	1948-06-05	BRIGADIER	PUNJAB	...	140000	[null]	[null]	[null]	[nul

Right Outer Join:-

Query:- Show all columns from ITEMS and RESOURCES tables where IDEPTNAME from is equal to RNAME from RESOURCES

SELECT *

FROM RESOURCES RIGHT JOIN ITEMS

ON resources.rname = items.ideptname;

```
169
170   Right Outer Join:-
171   Query:- Show all columns from ITEMS and RESOURCES tables where IDEPTNAME from  is equal to RNAME from RESOURCES
172
173   SELECT *
174   FROM RESOURCES RIGHT JOIN ITEMS
175   ON resources.rname = items.ideptname;
176
177
```
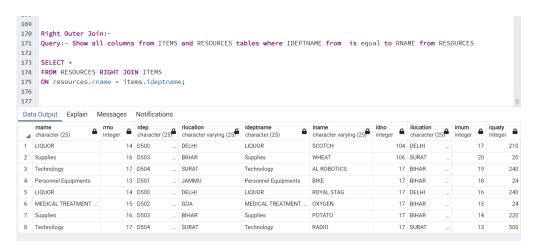
Data Output | Explain | Messages | Notifications

	rname character (25)	rrno integer	rdep character (25	rlocation character varying (25)	ideptname character (25)	iname character varying (25)	idno integer	ilocation character (25)	irnum integer	iquaty integer
1	LIQUOR	14	D500	DELHI	LIQUOR	SCOTCH	104	DELHI	17	210
2	Supplies	16	D503	BIHAR	Supplies	WHEAT	106	SURAT	20	20
3	Technology	17	D504	SURAT	Technology	AL ROBOTICS	17	BIHAR	19	240
4	Personnel Equipments	13	D501	JAMMU	Personnel Equipments	BIKE	17	BIHAR	18	24
5	LIQUOR	14	D500	DELHI	LIQUOR	ROYAL STAG	17	DELHI	16	240
6	MEDICAL TREATMENT ...	15	D502	GOA	MEDICAL TREATMENT ...	OXYGEN	17	BIHAR	15	24
7	Supplies	16	D503	BIHAR	Supplies	POTATO	17	BIHAR	14	220
8	Technology	17	D504	SURAT	Technology	RADIO	17	SURAT	13	500

Fullouter Join:-

Query:- Sleect all the columns from WEAPONS and DEPARTMENT where WRNO >13 .

SELECT *

FROM DEPARTMENT FULL OUTER JOIN WEAPONS

ON department.dname = weapons.wdeptname

WHERE WRNO>13;

```
179
180   SELECT *
181   FROM DEPARTMENT FULL OUTER JOIN  WEAPONS
182   ON department.dname = weapons.wdeptname
183   WHERE WRNO>13;
```

Data Output | Explain | Messages | Notifications

	drno integer	dname character (25)	dno integer	dlocation character (25)	wname character (25)	wdeptname character varying (50)	wrno integer	wnumber integer	wlocation character varying (25)
1	5	PLATOON EQUPMENTS ...	17	KASHMIR	INSAS	PLATOON EQUPMENTS	14	7	DELHI
2	1	WEAPON TRANING	13	DELHI	SLR	WEAPON TRANING	15	5	KASHMIR
3	3	ARTILLERY	13	DELHI	GRANADES	ARTILLERY	14	10	DELHI
4	1	WEAPON TRANING	13	DELHI	SNIPER	WEAPON TRANING	14	12	DELHI