Submitted By **TANUJA SHARMA**

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Que1= Write a query to find common rows between 2 tables based on single column.

```
SQLQuery3Assignme...IE\tasharma (55))*  ⊟ ×

    /*Write a query to find common rows between 2 tables based on single column.*/

    SELECT st_name FROM College1
    INTERSECT
    SELECT sname FROM College2
```

100 % ▼ ◂

⊞ Results 📊 Messages

	st_name
1	Aanchal Singh
2	Aarti Yadav
3	Bharti Singh
4	Sunny Tomar
5	Tanuja Sharma

Que2= Write a query to find common rows between 2 tables based on 2 columns.

```
SQLQuery3Assignme...IE\tasharma (55))*  ⊟ ×


    /*Write a query to find common rows between 2 tables based on 2 columns.*/
    SELECT st_name,marks FROM College1
    INTERSECT
    SELECT sname,smarks FROM College2
```

100 % ▼ ◂

⊞ Results 📊 Messages

	st_name	marks
1	Aarti Yadav	620
2	Bharti Singh	420
3	Sunny Tomar	500
4	Tanuja Sharma	720

Que3= Write a query each to showcase the difference between LEFT and RIGHT JOIN.

SQLQuery3Assignme...IE\tasharma (55))*   ⊣ ✕

```
/*Write a query each to showcase the difference between LEFT and RIGHT JOIN.*/

SELECT College1.St_id,College1.st_name,College2.sname,College2.smarks
FROM College1 LEFT JOIN College2
ON College1.st_name=College2.sname


SELECT College1.St_id,College1.st_name,College2.sname,College2.smarks
FROM College1 RIGHT JOIN College2
ON College1.st_name=College2.sname
```

100 %   ▾ ◂

⊞ Results 📄 Messages

	St_id	st_name	sname	smarks
1	101	Tanuja Sharma	Tanuja Sharma	720
2	102	Aarti Yadav	Aarti Yadav	620
3	103	Sunny Tomar	Sunny Tomar	500
4	104	Aanchal Singh	Aanchal Singh	620
5	104	Aanchal Singh	Aanchal Singh	750
6	105	Bharti Singh	Bharti Singh	420

	St_id	st_name	sname	smarks
1	101	Tanuja Sharma	Tanuja Sharma	720
2	NULL	NULL	Aarti	620
3	103	Sunny Tomar	Sunny Tomar	500
4	104	Aanchal Singh	Aanchal Singh	620
5	102	Aarti Yadav	Aarti Yadav	620
6	NULL	NULL	Sunny	500
7	104	Aanchal Singh	Aanchal Singh	750
8	NULL	NULL	Bharti	420
9	105	Bharti Singh	Bharti Singh	420

Que4= Write a query to join 3 different tables with existing database.

SQLQuery3Assignme...IE\tasharma (55))* ⊞ ✕

```
/*Write a query to join 3 different tables with existing database.*/

SELECT College1.St_id,College2.sname,College3.score
FROM ((College1 INNER JOIN College2 ON College1.st_name=College2.sname)
INNER JOIN College3 ON College1.marks=College3.score);
```

100 % ▾ ◂

⊞ Results ▦ Messages

	St_id	sname	score
1	101	Tanuja Sharma	720
2	101	Tanuja Sharma	720
3	103	Sunny Tomar	500
4	103	Sunny Tomar	500
5	104	Aanchal Singh	650
6	102	Aarti Yadav	620
7	102	Aarti Yadav	620
8	104	Aanchal Singh	650
9	105	Bharti Singh	420

Que5= How UNION and UNION ALL clause is different from Joins. Explain with practical example.
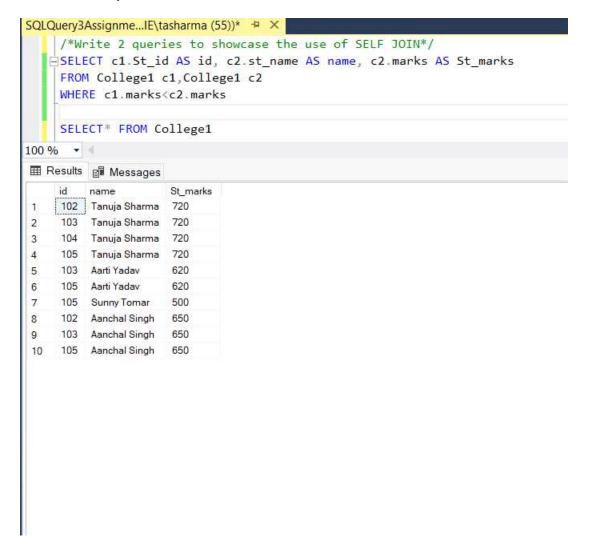
Que6= Write a query to showcase the use Set Operators (Union, Union All, Intersect, Except) by using existing database tables.
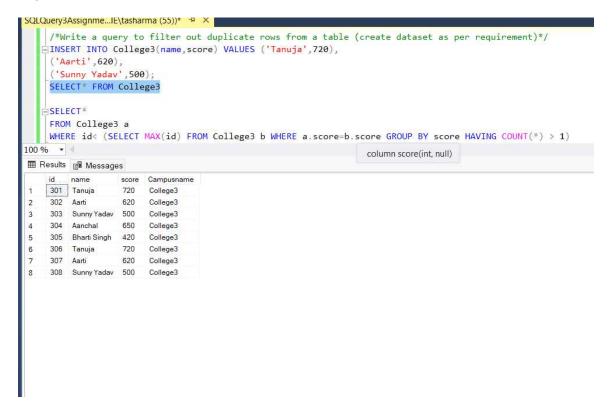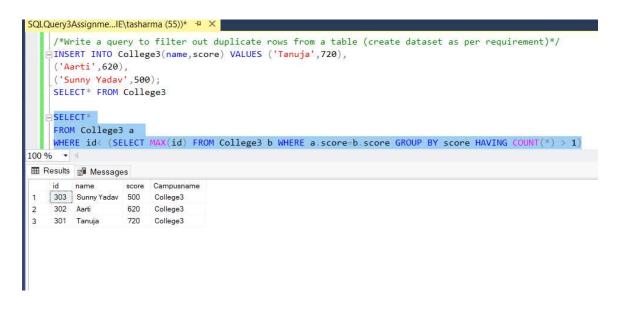
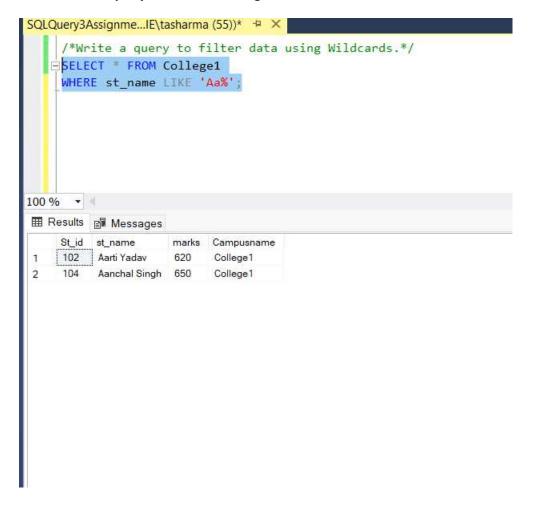**Que7= Write 2 queries to showcase the use of SELF JOIN.**

SQLQuery3Assignme...IE\tasharma (55))* ⊞ ✕

```sql
/*Write 2 queries to showcase the use of SELF JOIN*/
SELECT c1.St_id AS id, c2.st_name AS name, c2.marks AS St_marks
FROM College1 c1,College1 c2
WHERE c1.marks<c2.marks


SELECT* FROM College1
```

100 % ▾ ◀

⊞ Results ⊟ Messages

	id	name	St_marks
1	102	Tanuja Sharma	720
2	103	Tanuja Sharma	720
3	104	Tanuja Sharma	720
4	105	Tanuja Sharma	720
5	103	Aarti Yadav	620
6	105	Aarti Yadav	620
7	105	Sunny Tomar	500
8	102	Aanchal Singh	650
9	103	Aanchal Singh	650
10	105	Aanchal Singh	650

SQLQuery3Assignme...IE\tasharma (55))* ⌐ ✕

```sql
SELECT* FROM College2

SELECT c1.Sid AS id, c2.sname AS name, c2.smarks AS St_marks
FROM College2 c1,College2 c2
WHERE c1.smarks=c2.smarks
```

100 % ▼ ◄

⊞ Results ▣ Messages

	id	name	St_marks
1	201	Tanuja Sharma	720
2	202	Aarti	620
3	204	Aarti	620
4	205	Aarti	620
5	203	Sunny Tomar	500
6	206	Sunny Tomar	500
7	202	Aanchal Singh	620
8	204	Aanchal Singh	620
9	205	Aanchal Singh	620
10	202	Aarti Yadav	620
11	204	Aarti Yadav	620
12	205	Aarti Yadav	620
13	203	Sunny	500
14	206	Sunny	500
15	207	Aanchal Singh	750
16	208	Bharti	420
17	209	Bharti	420
18	208	Bharti Singh	420
19	209	Bharti Singh	420

Que8= Write a query to filter out duplicate rows from a table (create dataset as per requirement)

SQLQuery3Assignme...IE\tasharma (55))* ⊕ ✕

```
/*Write a query to filter out duplicate rows from a table (create dataset as per requirement)*/
INSERT INTO College3(name,score) VALUES ('Tanuja',720),
('Aarti',620),
('Sunny Yadav',500);
SELECT* FROM College3

SELECT*
FROM College3 a
WHERE id< (SELECT MAX(id) FROM College3 b WHERE a.score=b.score GROUP BY score HAVING COUNT(*) > 1)
```

100 % ▼

column score(int, null)

Results   Messages

	id	name	score	Campusname
1	301	Tanuja	720	College3
2	302	Aarti	620	College3
3	303	Sunny Yadav	500	College3
4	304	Aanchal	650	College3
5	305	Bharti Singh	420	College3
6	306	Tanuja	720	College3
7	307	Aarti	620	College3
8	308	Sunny Yadav	500	College3

SQLQuery3Assignme...IE\tasharma (55))* ⊕ ✕

```
/*Write a query to filter out duplicate rows from a table (create dataset as per requirement)*/
INSERT INTO College3(name,score) VALUES ('Tanuja',720),
('Aarti',620),
('Sunny Yadav',500);
SELECT* FROM College3

SELECT*
FROM College3 a
WHERE id< (SELECT MAX(id) FROM College3 b WHERE a.score=b.score GROUP BY score HAVING COUNT(*) > 1)
```

100 % ▼

Results   Messages

	id	name	score	Campusname
1	303	Sunny Yadav	500	College3
2	302	Aarti	620	College3
3	301	Tanuja	720	College3

Que9= Write a query to filter data using Wildcards.

SQLQuery3Assignme...IE\tasharma (55))* ⊣ ✕

```
/*Write a query to filter data using Wildcards.*/
SELECT * FROM College1
WHERE st_name LIKE 'Aa%';
```

100 % ▼ ◀

⊞ Results   📝 Messages

	St_id	st_name	marks	Campusname
1	102	Aarti Yadav	620	College1
2	104	Aanchal Singh	650	College1

Que10= Write a query to filter rows using a range of records.

```
/*Write a query to filter rows using a range of records.*/
SELECT * FROM College1
WHERE marks BETWEEN  600 AND 720;
```

100 % ▼ ◄

⊞ Results ⬚ Messages

	St_id	st_name	marks	Campusname
1	101	Tanuja Sharma	720	College1
2	102	Aarti Yadav	620	College1
3	104	Aanchal Singh	650	College1

Que11= Write a query to replace vowels with letter $ in a string.

SQLQuery3Assignme...IE\tasharma (55))* ⊣ ✕

```
/*Write a query to replace vowels with letter $ in a string. */
SELECT REPLACE('Aarti Yadav', 'a', '$');
```

100 % ▼ ◂

⊞ Results ⊟ Messages

	(No column name)
1	$$rti Ydv