# 18CSC303J/ Database Management Systems

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## Exp-8: Set Operations

**Aim:-** To study the various Set operations on the database.

## Commands:-

1. **UNION**
2. **UNION ALL**
3. **INTERSECT**
4. **MINUS**

## Execution:-

SQL*Plus: Release 11.2.0.4.0 Production on Wed Mar 16 16:40:32 2022

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Enter user-name: **RA1911003010367/RA1911003010367@f1-drjebakumar.co86hfjmfjkx.us-west-2.rds.amazonaws.com:1521/F1**

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

SQL> **spool exp8.lst**
SQL> **create table first(id int, name varchar(20), subject varchar(20));**

Table created.

SQL> **create table second(id int, name varchar(20), subject varchar(20));**

Table created.

SQL> **insert into first (id, name, subject) values(1, 'Anannya', 'CSE');**

1 row created.

SQL> **insert into first (id, name, subject) values(1, 'Unnati', 'SW');**

1 row created.

SQL> **delete from first where name='Unnati';**

1 row deleted.

SQL> **insert into first (id, name, subject) values(2, 'Unnati', 'SW');**

1 row created.

SQL> **insert into first (id, name, subject) values(3, 'Mansi', 'GENETIC');**

1 row created.

```
SQL> insert into second (id, name, subject) values(3, 'Mansi', 'GENETIC');

1 row created.

SQL> insert into second (id, name, subject) values(4, 'Rishitha', 'ECE');

1 row created.

SQL> insert into second (id, name, subject) values(5, 'ABC', 'MECH');

1 row created.

SQL> select * from first UNION select * from second;

        ID NAME                 SUBJECT
---------- -------------------- --------------------
         1 Anannya              CSE
         2 Unnati               SW
         3 Mansi                GENETIC
         4 Rishitha             ECE
         5 ABC                  MECH

SQL> select * from first INTERSECT select * from second;

        ID NAME                 SUBJECT
---------- -------------------- --------------------
         3 Mansi                GENETIC

SQL> select * from first UNION ALL select * from second;

        ID NAME                 SUBJECT
---------- -------------------- --------------------
         1 Anannya              CSE
         2 Unnati               SW
         3 Mansi                GENETIC
         3 Mansi                GENETIC
         4 Rishitha             ECE
         5 ABC                  MECH

6 rows selected.

SQL> select * from first MINUS select * from second;

        ID NAME                 SUBJECT
---------- -------------------- --------------------
         1 Anannya              CSE
         2 Unnati               SW

SQL> spool off;
SQL> edit exp8.lst

SQL>
```

```
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Table created.

SQL> insert into first (id, name, subject) values(1, 'Anannya', 'CSE');

1 row created.

SQL> insert into first (id, name, subject) values(1, 'Unnati', 'SW');

1 row created.

SQL> delete from first where name='Unnati';

1 row deleted.

SQL> insert into first (id, name, subject) values(2, 'Unnati', 'SW');

1 row created.

SQL> insert into first (id, name, subject) values(3, 'Mansi', 'GENETIC');

1 row created.

SQL> insert into second (id, name, subject) values(3, 'Mansi', 'GENETIC');

1 row created.

SQL> insert into second (id, name, subject) values(4, 'Rishitha', 'ECE');

1 row created.

SQL> insert into second (id, name, subject) values(5, 'ABC', 'MECH');
```

```
1 row created.

SQL> select * from first UNION select * from second;

        ID NAME                 SUBJECT
---------- -------------------- --------------------
         1 Anannya              CSE
         2 Unnati               SW
         3 Mansi                GENETIC
         4 Rishitha             ECE
         5 ABC                  MECH

SQL> select * from first INTERSECT select * from second;

        ID NAME                 SUBJECT
---------- -------------------- --------------------
         3 Mansi                GENETIC

SQL> select * from first UNION ALL select * from second;

        ID NAME                 SUBJECT
---------- -------------------- --------------------
         1 Anannya              CSE
         2 Unnati               SW
         3 Mansi                GENETIC
         3 Mansi                GENETIC
         4 Rishitha             ECE
         5 ABC                  MECH

6 rows selected.

SQL> select * from first MINUS select * from second;

        ID NAME                 SUBJECT
---------- -------------------- --------------------
         1 Anannya              CSE
         2 Unnati               SW

SQL> spool off;
SQL> edit exp8.lst

SQL>
```

**RESULT:** Thus the SQL Set Operators tables have been executed successfully.