Experiment 2

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Branch: AIML2　　　　　　　　　　　　　　**Section/ Group: 2/B**

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Subject: ADBMS Lab　　　　　　　　　　　**Subject Code: CSP-396**

1. **Aim/Overview of the practical:** To implement DCL, create a user in Oracle Database and grant and revoke the privileges and use the commit savepoint rollback command.

2. **Task to be done: -**

   Data Control Language(DCL) is used to control privileges in Database. To perform any operation in the database, such as for creating tables, sequences or views, a user needs privileges.

   GRANT command

   REVOKE command

   Steps for experiment/practical:

   i.　　First, we have to create a user in the database.
   ii.　　After that we will change user password to learn more about alter command.
   iii.　　We will delete user account to understand drop command.
   iv.　　Again we will create a user and will login.
   v.　　Grant permission to user that we created in previous step to login.
   vi.　　Grant create table permission to user.
   vii.　　Set quota limit to unlimited.
   viii.　　Create table as user
   ix.　　Grant permission to select, update, insert, delete to user.

    x.   Insert values in table as user.

    xi.   Commit

    xii.   Grant Revoke permission to user

    xiii. Revoke data from user.

    xiv.   Rollback to previous commit

3. **Commands used:**

SQL> Connect system/123456789;

SQL > create user BRD identified by 123;

SQL > alter user BRD identified by 789;

SQL > drop user BRD;

SQL > create user BRD identified by 123;

SQL > grant create session to BRD;

SQL > grant create table to BRD;

SQL > alter user BRD quota unlimited on system;

SQL > connect BRD;

SQL > create table Eligible(Stu_UID, Stu_name varchar(50), Backlog);

SQl > connect system/123456789;

SQL > grant all privileges to BRD;

SQL > connect BRD/123;

SQL > insert into Eligible values (6196,'Bhagath',0);

SQL > COMMIT;

SQL > connect system/123456789;

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SQL > revoke delete on employee from BRD;

SQL > rollback;

4. **Observations/Discussions:**

In DCL we have two commands,

   i.   **GRANT** → Used to provide any user access privileges or other privileges for the database.
   ii. **REVOKE** → Used to take back permissions from any user.

6. Result/Output/Writing Summary:

```
Run SQL Command Line
SQL> connect system/123456789;
Connected.
SQL> create user BRD identified by 123;

User created.

SQL> alter user BRD identified by 789;

User altered.
```

```
SQL> create user BRD identified by 123;

User created.

SQL> grant create session to BRD;

Grant succeeded.

SQL> grant create table to BRD;

Grant succeeded.
```

```
SQL> alter user BRD quota unlimited on system;

User altered.
```

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```
SQL> connect system/123456789;
Connected.
SQL> grant all previleges to BRD;
grant all previleges to BRD
```

```
Grant succeeded.

SQL> connect BRD/123;
Connected.
SQL> insert into Eligible values(6196,'Bhagath',0);
```

```
SQL> insert into Eligigle values(6196,'Bhagath',0);

1 row created.

SQL> commit;

Commit complete.

SQL> connect system/123456789;
Connected.
SQL> revoke delete on Eligigle from BRD;
```

```
Run SQL Command Line
SQL> rollback;

Rollback complete.
```

Learning outcomes (What I have learnt):

    1. Learnt about the dCL commands in SQL.

    2. implement the grant and revoke command.

    3. Learnt about SQL and Advance DBMS.