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| **Exp. No** | **Conducted on** | **Submitted On** | **Date of Late Submission**  **(if Any)** | **Max Marks Allotted** | **Marks Obtained** | **Faculty Signature** |
| 1 | 16/02/2022 | 16/02/2022 |  | 10 |  |  |
| **Exp Title** | To write SQL queries to execute different DCL and TCL commands | | | | | |

**Aim:-** To write SQL queries to execute different DCL and TCL commands

**Syntax (for all DDL Commands)**

**GRANT: This command gives users access privileges to the**

**database.**

**Syntax,**

**GRANT privileges\_names ON object TO user;**

**Example:**

**Create user first identified by passwd;**

**Grant select on customers to first;**

**REVOKE: This command withdraws the user’s access privileges**

**given by using the GRANT command.**

**Syntax,**

**REVOKE privileges ON object FROM user;**

**Example:**

**Revoke select on customers from first;**

**Transaction Control Language (TCL) Commands:**

**COMMIT: Commits a Transaction.**

**Syntax:**

**COMMIT;**

**Example:**

**INSERT INTO customers**

**VALUES ('1006','2020-03-04',3200,'DL', '1008');**

**Commit;**

**Select \* from customers;**

**ROLLBACK: Rollbacks a transaction in case of any error occurs.**

**Syntax:**

**Rollback;**

**Example:**

**DELETE FROM customers**

**WHERE store\_state = 'MH'**

**AND customer\_id = '1002';**

**Select \* from customers;**

**Rollback;**

**Select \* from customers;**

**SAVEPOINT:Sets a savepoint within a transaction.**

**Syntax:**

**SAVEPOINT SAVEPOINT\_NAME;**

**This command is used only in the creation of SAVEPOINT among all the**

**transactions.**

**Queries (for all DDL Commands)**

**SQL> create table stds(st\_no int,st\_name varchar(10),st\_ph\_no varchar(10));**

**Table created.**

**SQL> insert into stds values(110, 'Rachit',88548789);**

**1 row created.**

**SQL> desc stds**

**Name Null? Type**

**----------------------------------------- -------- ----------------------------**

**ST\_NO NUMBER(38)**

**ST\_NAME VARCHAR2(10)**

**ST\_PH\_NO VARCHAR2(10)**

**SQL> commit;**

**Commit complete.**

**SQL> insert into stds values(111, 'Vikramt',88548789);**

**1 row created.**

**SQL> insert into stds values(112, 'Paul',88548789);**

**1 row created.**

**SQL> insert into stds values(113, 'Rashmi',88548789);**

**1 row created.**

**SQL> commit;**

**Commit complete.**

**SQL> select\*from stds;**

**ST\_NO ST\_NAME ST\_PH\_NO**

**---------- ---------- ----------**

**110 Rachit 88548789**

**111 Vikramt 88548789**

**112 Paul 88548789**

**113 Rashmi 88548789**

**SQL> delete from stds where st\_no=110;**

**1 row deleted.**

**SQL> rollback**

**2**

**SQL> Rollback;**

**Rollback complete.**

**SQL> select\*from stds**

**2**

**SQL> select\*from stds;**

**ST\_NO ST\_NAME ST\_PH\_NO**

**---------- ---------- ----------**

**110 Rachit 88548789**

**111 Vikramt 88548789**

**112 Paul 88548789**

**113 Rashmi 88548789**

**SQL> savepoint s1;**

**Savepoint created.**

**SQL> delete from stds where st\_no=111;**

**1 row deleted.**

**SQL> select\*from stds;**

**ST\_NO ST\_NAME ST\_PH\_NO**

**---------- ---------- ----------**

**110 Rachit 88548789**

**112 Paul 88548789**

**113 Rashmi 88548789**

**SQL> rollback to s1;**

**Rollback complete.**

**SQL> select\*from stds;**

**ST\_NO ST\_NAME ST\_PH\_NO**

**---------- ---------- ----------**

**110 Rachit 88548789**

**111 Vikramt 88548789**

**112 Paul 88548789**

**113 Rashmi 88548789**

**Result:-**

Thus the DCL and TCL commands are used to modify or manipulate data

records present in the customer database tables.



