

Experiment-1

Student Name: Gauri Prabhakar

UID: 18BCS6201

Branch: 18AITAIML-2

Section/Group: B

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Subject Name: Advanced Database Management Lab

Subject Code: CSP - 434

1. Aim/Overview of the practical:

To study and understand TCL commands in SQL, implement the Commit, Savepoint and Rollback command.

2. Task to be done:

To install Oracle on Windows, implement TCL commands and write all the necessary steps.

3. Steps to be followed:

Creating a Table and Inserting Values into the Table:

1. CREATE TABLE STUDENTS(Roll_No int, Name varchar(50), Age int);

```
Run SQL Command Line
Enter user-name: system
Enter password:
Connected.
SQL> CREATE TABLE STUDENTS(Roll_No int, Name varchar(50), Age int);
Table created.
```

2. INSERT INTO STUDENTS VALUES(1,'Gauri',21);
INSERT INTO STUDENTS VALUES(2,'Lilly',22);
INSERT INTO STUDENTS VALUES(3,'Rose',18);

```
SQL> INSERT INTO STUDENTS VALUES(1,'Gauri',21);
1 row created.
SQL> INSERT INTO STUDENTS VALUES(2,'Lilly',22);
1 row created.
SQL> INSERT INTO STUDENTS VALUES(3,'Rose',18);
1 row created.
```

COMMIT Values into the table:

3. COMMIT;

```
SQL> COMMIT;  
Commit complete.
```

4. INSERT INTO STUDENTS VALUES(4,'Chelsea',24); SELECT * FROM STUDENTS;

```
SQL> INSERT INTO STUDENTS VALUES(4,'Chelsea',24);  
1 row created.  
SQL> SELECT * FROM STUDENTS;  
  
ROLL_NO NAME                AGE  
-----  
1 Gauri                    21  
2 Lilly                     22  
3 Rose                      18  
4 Chelsea                   24
```

ROLLBACK to the table:

5. ROLLBACK;

```
SQL> ROLLBACK;  
Rollback complete.
```

6. Displaying the table after Rollback. SELECT * FROM STUDENTS;

```
SQL> SELECT * FROM STUDENTS;  
  
ROLL_NO NAME                AGE  
-----  
1 Gauri                    21  
2 Lilly                     22  
3 Rose                      18
```

Updating values and then creating SAVEPOINT and Rolling back to the Savepoint:

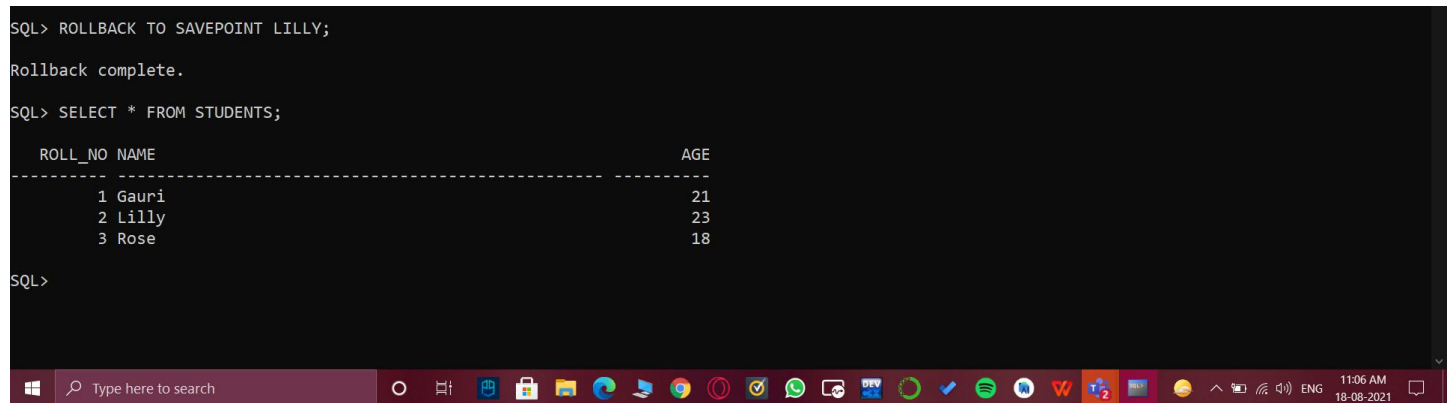
7. UPDATE STUDENTS SET Age=23 where Roll_No=2; SAVEPOINT LILLY; UPDATE STUDENTS SET Age=28 where Roll_No=3; SAVEPOINT ROSE;

```
SQL> UPDATE STUDENTS SET Age=23 where Roll_No=2;  
1 row updated.  
SQL> SAVEPOINT LILLY;  
Savepoint created.  
SQL> UPDATE STUDENTS SET Age=28 where Roll_No=3;  
1 row updated.  
SQL> SAVEPOINT ROSE;  
Savepoint created.
```

8. Rollback to Savepoint and displaying the table.

```
ROLLBACK TO SAVEPOINT LILLY;  
SELECT * FROM STUDENTS;
```

```
SQL> ROLLBACK TO SAVEPOINT LILLY;  
  
Rollback complete.  
  
SQL> SELECT * FROM STUDENTS;  
  
ROLL_NO NAME AGE  
-----  
1 Gauri 21  
2 Lilly 23  
3 Rose 18  
  
SQL>
```



4. Result/Output/Writing Summary:

- Successfully installed Oracle DBMS.
- Successfully created a table on SQL command line.
- Successfully implemented TCL Commands: Commit, Rollback and Savepoint.
- Successfully understood the working of TCL commands.

5. Learning outcomes (What I have learnt):

- Oracle DBMS installation.
- How to create table on SQL Command Line.
- TCL Commands.
- How to implement Commit, Rollback and Savepoint command and returned their outcomes.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

