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| **Course Code: CSL402** | **Course Name: Database Management System Lab** |
| **Class: SE-CO** | **Batch: 2020-24** |
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**Experiment: 08**

**Aim: Implement DCL and TCL Commands**

**Case Study Title – Currency Converter**

**Theory:**

**DCL(Data Control Language):** DCL includes commands such as GRANT and REVOKE which mainly deal with the rights, permissions and other controls of the database system.

DCL Commands

Create a user -

Create user 'username'@'servername' identifed by 'password';

Mysql -u newuser -p

Password -

Grant - Used to give permission to perform DDL, DML commands to the users.

Syntax

Grant roles/permission on database.tables to 'user'@'servername';

Roles - ddl or dml commands (select , insert, update, delete, create , alter….)

Revoke - Used to remove permission to perform DDL, DML commands to the users.

Syntax -

Revoke roles/permission on database.tables from 'user'@'servername';

**TCL(Transaction Control Language):** TCL commands deal with the transaction within the database.

COMMIT– commits a Transaction.

ROLLBACK– rollbacks a transaction in case of any error occurs.

SAVEPOINT–sets a save point within a transaction.

SET TRANSACTION–specify characteristics for the transaction.

**Output:**

**Attach the output of the nested queries on your project in txt format.**

**Conclusion:**

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| In this experiment we have successfully implemented DCL(Data Control Language) and TCL(Transaction Control Language) commands. I have understood the concepts of commit, rollback, etc. |