

DBMS Lab Assignment 1

Objective:

To practice and write SQL queries using Data Definition Language (DDL) and Data Manipulation Language (DML) commands.

Theory and Concepts:

What is SQL?

- SQL stands for **Structured Query Language**. It is used for storing and managing data in the Relational Database Management System (RDBMS).
- It is a standard language for Relational Database Systems. It enables a user to **create, read, update and delete** relational databases and tables.
- All the RDBMS like **MySQL, Informix, Oracle, MS Access and SQL Server** use SQL as their standard database language.
- SQL allows users to query the database in a number of ways, using English-like statements.

SQL follows the following rules:

- SQL is not case-sensitive, but it is common practice to write keywords in uppercase for better readability.
- SQL statements are independent of text lines; a single SQL statement can span one or multiple lines.
- With SQL statements, you can perform various operations in a database, such as creating, reading, updating, and deleting data.
- SQL is based on concepts from tuple relational calculus and relational algebra, providing a foundation for manipulating relational data.

What is SQL Process?

When an SQL command is executed in any Relational Database Management System (RDBMS), the system processes the request to find the most efficient way to perform the task. The **SQL engine** plays a key role in determining how to interpret and execute the query.

Components Involved in the SQL Process:

- **Query Dispatcher:** Directs the query to the appropriate engine.
- **Optimization Engine:** Determines the most efficient execution plan for the query.
- **Query Engine:** Responsible for the actual execution of the SQL query.
- **Classic Query Engine:** Handles non-SQL queries; does not handle logical file operations.

Sql Dba Lab Manual

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