



DDL DML DQL + DB OPERATIONS



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1. What is SQL?

- SQL stands for Structured Query Language
- SQL lets you access and manipulate databases
- Perform all the CRUD operations in a database.
- RDBMS is the basis for SQL, and for all modern database systems such as MS SQL Server, IBM DB2, Oracle, MySQL, and Microsoft Access.
- SQL is used to communicate with a database
- Structured query language (SQL) is a programming language for storing and processing information in a relational database.
- A relational database stores information in tabular form, with rows and columns representing different data attributes and the various relationships between the data values.
- You can use SQL statements to store, update, remove, search, and retrieve information from the database. You can also use SQL to maintain and optimize database performance.

2. What is DDL?

- Data definition language (DDL) refers to SQL commands that design the database structure
- Database engineers use DDL to create and modify database objects based on the business requirements.
- For example, the database engineer uses the CREATE command to create database objects such as tables, views, and indexes.
- A data definition language (DDL) is a computer language used to create and modify the structure of database objects in a database.
- This term is also known as data description language in some contexts
- Commonly used DDL in SQL querying are **CREATE, ALTER, DROP, and TRUNCATE.**

3. What is DML?

- Data manipulation language (DML) statements write new information or modify existing records in a relational database.
- For example, an application uses the INSERT command to store a new record in the database.

- Manipulate data in a database
- Manipulation commands like **UPDATE, INSERT INTO and DELETE FROM**

4. What is DQL?

- Data query language (DQL) consists of instructions for retrieving data stored in relational databases
- **DQL** statements are used for performing queries on the data within schema objects.
- This command allows getting the data out of the database to perform operations with it.
- **SELECT: It is used to retrieve data from the database.**