

Task 3

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.

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**.

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**

What us 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.**