ByteWise Fellowship – Week 2

Task#3 – SQL-D(M/D/Q)L Date: 16-March-2023

Question#1

**What is SQL?**

SQL (Structured Query Language) is a standard programming language used to manage and manipulate relational databases.

**Functions:**

It is used to:

* Create
* Modify
* Delete

data from databases, as well as retrieve data from them.

**Properties:**

SQL is a declarative language, which means that users describe the desired outcome of a database operation, and the database management system figures out how to execute the operation.

SQL allows users to interact with databases by executing queries that retrieve or manipulate data, as well as performing other operations such as creating tables and modifying database structures.

**Tools:**

There are many DBMS that support SQL like

* Microsoft SQL Server
* MySQL
* PostgreSQL

Question#2

**What is DDL?**

DDL (Data Definition Language) is used to define and manage the structure of a database.

DDL commands allow users to create, modify, and delete database objects such as tables, indexes, and views. The most commonly used DDL commands are:

* CREATE - used to create a new database object such as a table, index, or view.
* ALTER - used to modify the structure of an existing database object.
* DROP - used to delete a database object.
* TRUNCATE - used to delete all rows from a table.

Question#3

**What is DML?**

DML (Data Manipulation Language) is used to manipulate data stored in a database. DML commands allow users to insert, update, delete, and retrieve data from a database table. The most commonly used DML commands are:

* SELECT - used to retrieve data from one or more database tables.
* INSERT - used to insert new rows of data into a table.
* UPDATE - used to update existing data in a table.
* DELETE - used to delete one or more rows of data from a table.

Question#4

**What is DQL?**

DQL (Data Query Language) is used to query and retrieve data from a relational database. DQL commands allow users to retrieve data from one or more database tables without modifying the data.

The most commonly used DQL command is the SELECT statement, which is used to retrieve data from one or more tables based on specific criteria. The SELECT statement in DQL is used to query data from a table and retrieve specific