ASSIGNMENT - 2

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Data Language

Structured Query Language (3QL) as we all know is the database language by the use of which we can perform certain operations on the existing database and also we can use this language to create a database. SQL uses certain commands like Create Drop, Insert, etc. to arry out the required tasks.

There are some SQL commands are mainly adegorized into four categories are as follows as:

(i) DDL.

Data Definition Language

(ii) DQL

Data Query Language

(iii) DML

Data Manipulation Language

Data Control Language

Read, update, manipulate and store data in a database using database languages.

DBMS LANGUAGE DCL

Once data is stored or filled it requires manipulation like insertion. deletion, updating and modification of data. For example these operations a set of languages are provided by the database management system (DBMS). So, the database languages are used to read, updatabase and store data in the database base.

1. DDL (Data Definition Language)

DDI or Data Definition Language actually consists of the SQL commands that an be used to mands that abase schema. It simply deals with descriptions of the database schema and is used to create and modify the structure of database objects in the database.

The language is used to create database, tables, after them, etc. With this, you can also rename the clatabase schema.

Data Definition Language

Create

> Drop

Truncote

Rename

Examples of DDL commands:

COURTE - It is used to create the clatabase or its objects (like table, index, function, views, store procedure and triggers).

(ii) DROP - It is used to delete objects from the database

(iii) ALTER - It is used to after the structure of the database.

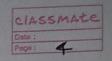
(iv) TRUNCATE - It is used to remove all records from a table including all spaces allocated for the records de are removed.

(V) COMMENT- It is used to add

Comments to the doto

dictionary.

(vi) RENAME - It is used to rename an object existing in the database.



2. DQL (Data Query Language)

DQL statements are used for performing queries on the data within schema objects. The purpose of the DQL command is to get some schema relation based on the query passed to it

Example of DOL:

(i) SELECT - It is used to retrive clase frome the data-

3. DML (Data Manipulation Language)

The SQL commands that deals with the manipulation of data present in the database belong to DML or Data Manipulation Language and this includes most of the SQL statements.

The language used to manipulate the database like inserting data, updating table, retrieving record from a table, etc. is

Data Manipulation Language

-> Select
-> Insert
-> Delete
-> Update

is known as Data Manipulation Language.

Examples of DML:

- (i) INSERT It is used to insert data
- iii UPDATE It is used to update existing data within a table.
- (iii) DELETE It is used to delete records from a data base table.

4. 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.

GRANT privilege to a user wing the GRANT statement. In the same way, revoke the privilege wing the REVOKE statement. Both of these

Data Control
Language

Revoke

Grant

these statements come under the Data Control Language (DCL).

Examples of DCL commands:

Ü GRANT - It gives users acress pprivileges to database.

iii REVOKE - It withdraw user's access privileges given by using the GRANT pacommand.

5. TCL (Transaction Control Language)

TCL commands deal with the transaction within the database.

TCL is a language which manages the transactions within the database. It is used to execute the changes made by the database manage statements. The TCL commands are: Commit Rollback and Savepoint. Transaction control language is mainly used to manage transaction in the database.

Transaction Control Language

Rollback

> Commit

Examples of TCL commands:

i commit - It commits a transaction.

Cii) ROLLBACK - It rollbacks a tran-Saction in case of any error occurs.

(iii) SAVEPOINT - It sets a savepoint within a transaction

(iv) SET TRANSACTION - It specify the characteristics for the transaction.

Structured Query Language (SQL)

Many data description languages use a declarative syntax to define alumn s and data types. Structured Query Language (SQL); however, uses a collection of imperative verbs whose effect is to modify the schema of the database by adding changing or deleting definitions of tables or other elements. These statements as he freely mixed with other SQL