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UNIT 7: DATABASE DEVELOPMENT (BASIC)

MANIPULATING DATA

In a database, you can define the structure of the data and manipulate the data using some commands. There are two types of language for this task

- ❖ Data Definition language (DDL)
- ❖ Data Manipulation language (DML)

Data Definition Language (DDL): A data definition language or data description language (DDL) is a standard for commands that define the different structures in a database. DDL statements create, Modify, and remove database objects such as tables, indexes, and users. Common DDL statements are Create, ALTER, and DROP.

Data manipulation Language (DML):- A data manipulation language (DML) is a language that enables users to access and manipulate data in a database. The goal is to provide efficient human interaction with the system. Data manipulation involves:

- Retrieval of information from the database- SELECT statement
- Insertion of new information into the database – INSERT statement
- Deletion of information in the database – DELETE statement
- Modification of information in the database – UPDATE statement.

A query language is a part of DML involving information retrieval only. DML and query Language are often used synonymously.

A popular data manipulation language is structured query language (SQL). This is used to retrieve and manipulate data in a relational database. Other forms of DML are those used

by IMS/DLI, CODASYL databases, such as IDMS and others. Data manipulation language comprises the sql data change statements, which modify stored data but not the schema or database objects.

There are two types of DML:

- **Procedural:** The user specifies what data is needed and how to get it
- **Nonprocedural:** the user only specifies what data is needed. This is easier for the user but may not generate code as efficient as that produced by procedural language