Database Management System

What is Database?

Database is a organized collection of information that can be accessed, managed and updated.

Types of Database

- Relational Database (RDBMS)
  -Store data in table
  *It also called **SQL Database**

- NoSQL Database (Non RDBMS)
  -Store data in flexible formats like (Documents,Graphs)
- Hierarchical Database
  -Store Data in tree like structure (parent → Child)
- Object Oriented Database
  -Store data as object like in programming

What is database management system (DBMS)?

Database management system is a system software where database is created and managed.

SQL

What is SQL?

Structured Query Language (SQL) is special and powerful programming language that is used in relational database to create, manipulate and control data.

Types of SQL Statement

- **DML (Data Manipulation Language)**
  - Works with the actual data inside the table

    Syntax:
    Insert - To add new data in table
    Update- To update the existing data
    Delete- to remove the data from the table

- **DDL (Data Definition Language)**
  - Define the database structure

    Syntax:
    Create – to create database or table
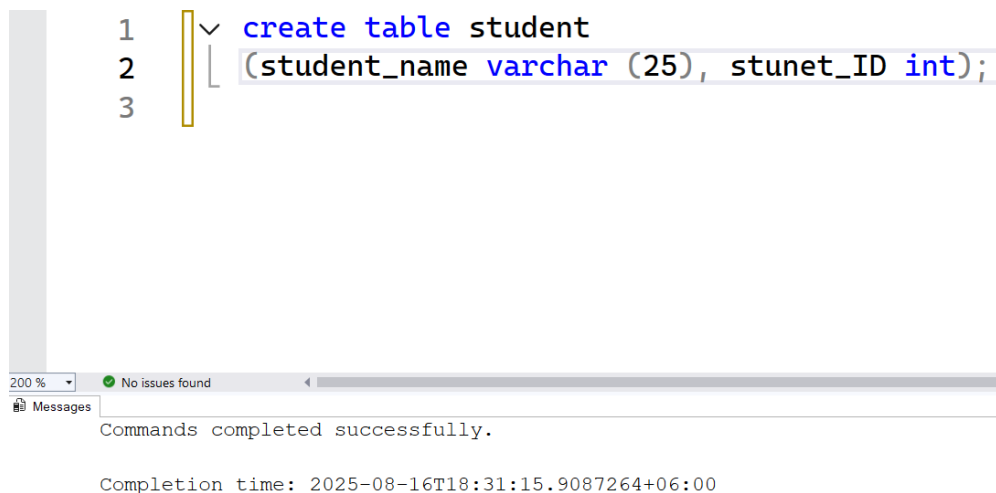   **Alter –** change the structure of table
    Drop – to delete the database or table

- **DCL (Data Control Language)**
  - Control who can access and update

Create Table construct

CREATE TABLE Table_name (column1 Datatype, column2 Datatype,…….)

```sql
1  create table student
2  (student_name varchar (25), stunet_ID int);
3
```

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