Ch-11: Simple Structured Query Language (SQL) Queries

Introduction

- SQL is a **standard language** used to **create, manage, and manipulate databases**.
- It is used to interact with **Relational Database Management Systems (RDBMS)** like MySQL, Oracle, etc.

Types of SQL Commands

Type	Full Form	Purpose
DDL	Data Definition Language	Defines structure of the database
DML	Data Manipulation Language	Used to manipulate data inside tables

Data Types in SQL

Data Type	Description
CHAR(n)	Fixed-length character string (e.g., CHAR(10))
VARCHAR(n)	Variable-length string (e.g., VARCHAR(50))
INT	Integer numbers
FLOAT	Decimal numbers
DATE	Date in YYYY-MM-DD format

Constraints in SQL

Constraint	Description
NOT NULL	Prevents null values
UNIQUE	Ensures all values in a column are unique
PRIMARY KEY	Uniquely identifies each row (auto NOT NULL + UNIQUE)