DAY 8 – SQL BASICS NOTES

What is SQL?

SQL (Structured Query Language) is used to store, retrieve, update, and manage data in relational databases like MySQL, PostgreSQL, and Oracle.

Steps to Work with SQL

1. Create Database
2. Use Database
3. Create Table
4. Insert Data
5. Fetch Data

Create Database

Command:
CREATE DATABASE company;

Use Database

Command:
USE company;

Create Table

Command:
CREATE TABLE employees (emp_id INT, name VARCHAR(50), department VARCHAR(30), salary INT, city VARCHAR(30));

Insert Data

Command:
INSERT INTO employees VALUES (101,'Rahul','IT',50000,'Hyderabad');

SELECT Statement

Used to fetch data from table.
Example:
SELECT * FROM employees;

WHERE Clause

Used to filter rows based on condition.
Example:
SELECT * FROM employees WHERE salary > 40000;

ORDER BY Clause

Used to sort data.
Example:
SELECT * FROM employees ORDER BY salary DESC;

Key Points

• SQL is not case-sensitive
• WHERE filters rows
• ORDER BY sorts rows