

MySQL – Complete Concepts (Table, Index, View, Trigger, Procedure)

TABLE

Definition: A table stores actual data.

Example: CREATE TABLE students(id INT PRIMARY KEY, name VARCHAR(50));

INDEX

Purpose: Speed up data retrieval.

Important: Index is NOT a column.

Example: CREATE INDEX idx_students_name ON students(name);

VIEW

Definition: View is a saved SELECT query.

Example: CREATE VIEW cse_students AS SELECT name FROM students WHERE dept='CSE';

PROCEDURE

Definition: Stored procedure stores reusable SQL logic.

Example: CREATE PROCEDURE getAll() SELECT * FROM students;

TRIGGER

Definition: Trigger runs automatically on table events.

Example: CREATE TRIGGER before_insert_students BEFORE INSERT ON students FOR EACH ROW SET NEW.name = UPPER(NEW.name);