

TRUNCATE Command

Definition

The **TRUNCATE** command is a DDL command used to **remove all records from a table** while keeping the table structure intact.

It resets the table to an **empty state**.

Purpose of TRUNCATE

- Delete all rows from a table
- Quickly clear large amounts of data
- Reuse the same table structure

TRUNCATE Command – Usage

TRUNCATE TABLE

TRUNCATE TABLE students;

📌 What happens:

- All records are deleted
- Table structure remains
- Storage space is freed

⚠️ TRUNCATE cannot be rolled back in most databases.

TRUNCATE vs DELETE (Conceptual Note)

- TRUNCATE removes **all rows at once**
- Faster than DELETE
- WHERE clause is **not allowed**
- Resets identity/auto-increment values

Key Points to Remember (TRUNCATE)

- Affects only table data
- Structure remains unchanged
- Very fast operation
- Use when full data removal is required

Quick Revision Summary (TRUNCATE)

- TRUNCATE → empty the table
- Table remains usable
- Faster than DELETE