

## What is the difference between View and Table.

A **table** is a physical storage structure in a database that holds data directly in rows and columns. It occupies storage space and contains the actual data.

A **view** is a virtual table created by a query that pulls data from one or more tables. It doesn't store data itself but provides a way to access and display data dynamically based on the query definition.

## What is view? State the types of View.

A **view** is a virtual table in a database that shows data based on a specific query but doesn't store the data itself.

### Types of Views:

1. **Simple View** – Based on a single table, without functions or groupings.
2. **Complex View** – Based on multiple tables or includes functions, joins, and groupings.
3. **Materialized View** – Stores a physical copy of data for faster access, updated periodically.

## What is the difference between Simple View and Complex View.

The difference between a **Simple View** and a **Complex View** is:

- **Simple View:**
  - Based on a single table.
  - Does not include functions, joins, or groupings.
  - Can perform DML operations (INSERT, UPDATE, DELETE).
- **Complex View:**
  - Based on multiple tables or includes functions, joins, or groupings.
  - Often read-only; may not support DML operations.