

Batch and streaming data – how do we move our data around?

Relational and non-relational – how do access, query and search our data?

Data modelling – how do we prepare and design our data?

Schemas and schemaless – how do we structure our data for search?

Data integrity and data corruption – how do we trust our data?

Normalized and denormalized – how do we trade quality vs speed?

Pivot Table

A pivot table is a table of statistics that summarizes the data of a more extensive table, database or spreadsheet

They arrange and rearrange (or pivot) statistics in order to draw attention to useful information.

Tables and views

Table – logical grouping of rows and columns

Views – is a result set of a stored query on data stored in memory (a temporary or virtual table)

A **virtual object** that shows data from one or more tables using a **SQL query**.

Like a logical layer built on top of these tables – no data stored in view itself

- A **normal view** = only a SQL query (no data stored).
- A **materialized view** = SQL query + **its result data saved** (physically like a table).

What is a Materialized View?

A Materialized View (MV) is like a view with stored data.