Data Modeling

Data modelling is the process of creating a blueprint of how data is stored, connected, and retrieved in a system.

(In simple terms: it's like making a blueprint or map of the data, showing how different pieces of information relate to each other.)

As a data engineer, it's not just about pipelines and tools – you need to design data structures that support reporting, scalability and performance.

Why it matters?

Makes data easier to understand and use improves query performance, helps build scalable systems.

Types of Data Models:

1. Conceptual
    - High-level overview
    - Entities and their relationships
2. Logical
    - Includes attributes, relationships
    - No concern for data type or DBMS
3. Physical
    - Real implementation
    - Data types, constraints, index, partitions