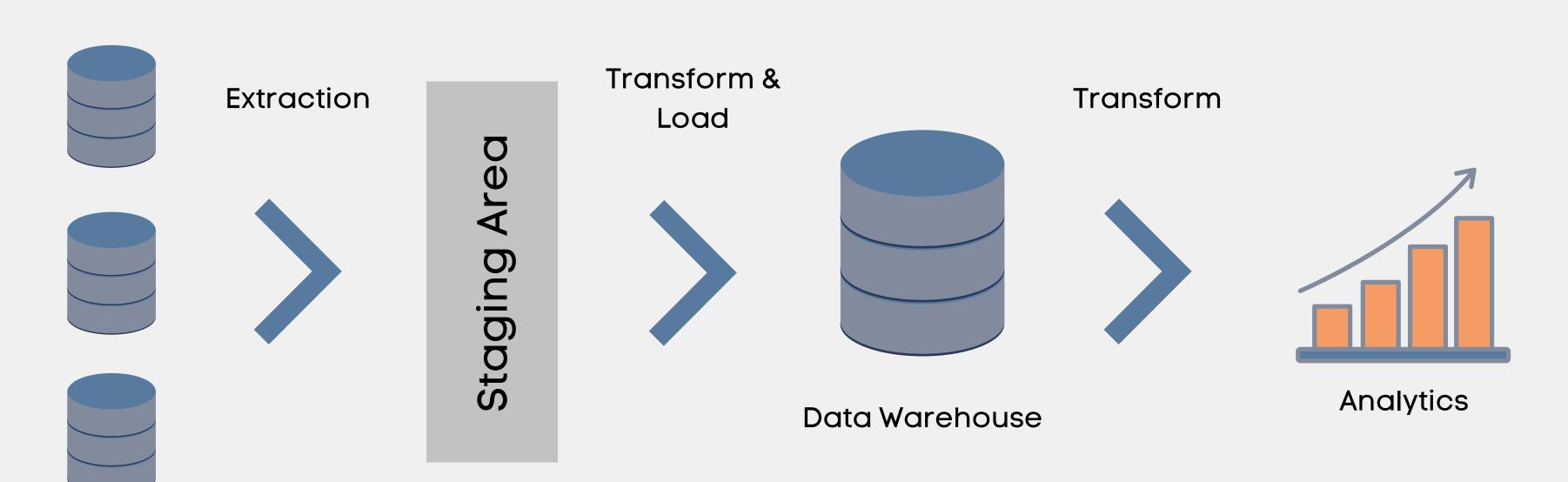


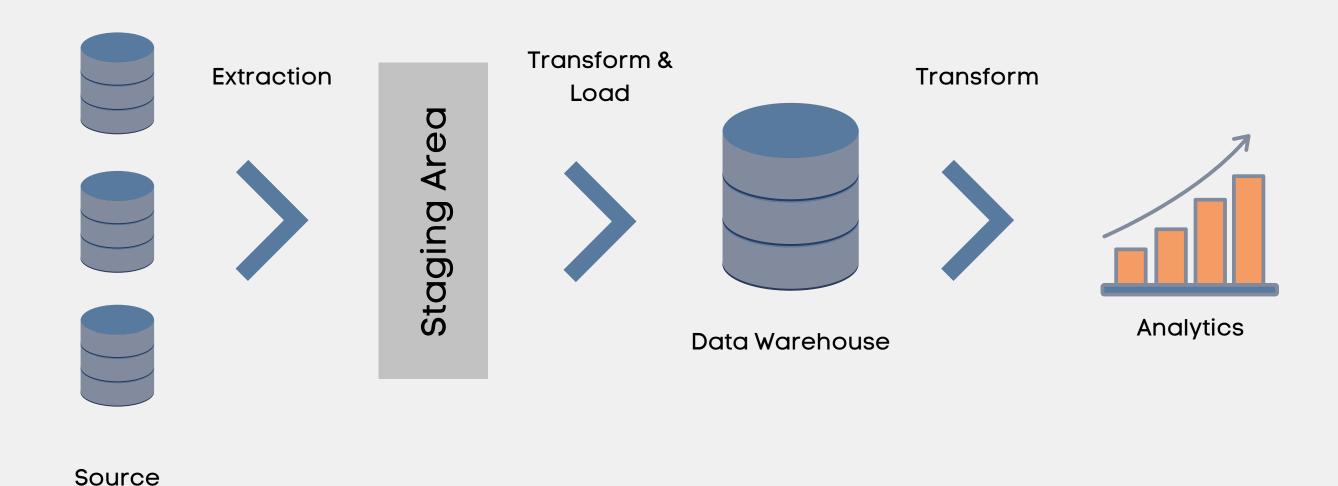
THE DATA LIFECYCLE

The Data Cycle



Source

The Data Cycle



- **Source:** Data sources may include relational databases and data from SaaS applications. Most pipelines ingest raw data from multiple sources via a push mechanism, an API call, a replication engine that pulls data at regular intervals, or a webhook. Also, the data may be synchronized in real time or at scheduled intervals.
- Staging Area: A data staging area is a temporary storage area between the data sources and a data warehouse.
- The staging area is mainly used to quickly extract data from its data sources, minimizing the impact of the sources.
- Transformation and Loading: Transformation refers to operations that change data, which may include data standardization, sorting, deduplication, validation, and verification. The ultimate goal is to make it possible to analyze the data.
- Data Warehouse: A data warehouse (DW) is a digital storage system that connects large amounts of data from different sources to feed BI, reporting, and analytics.