



END-TO-END DATA WAREHOUSE



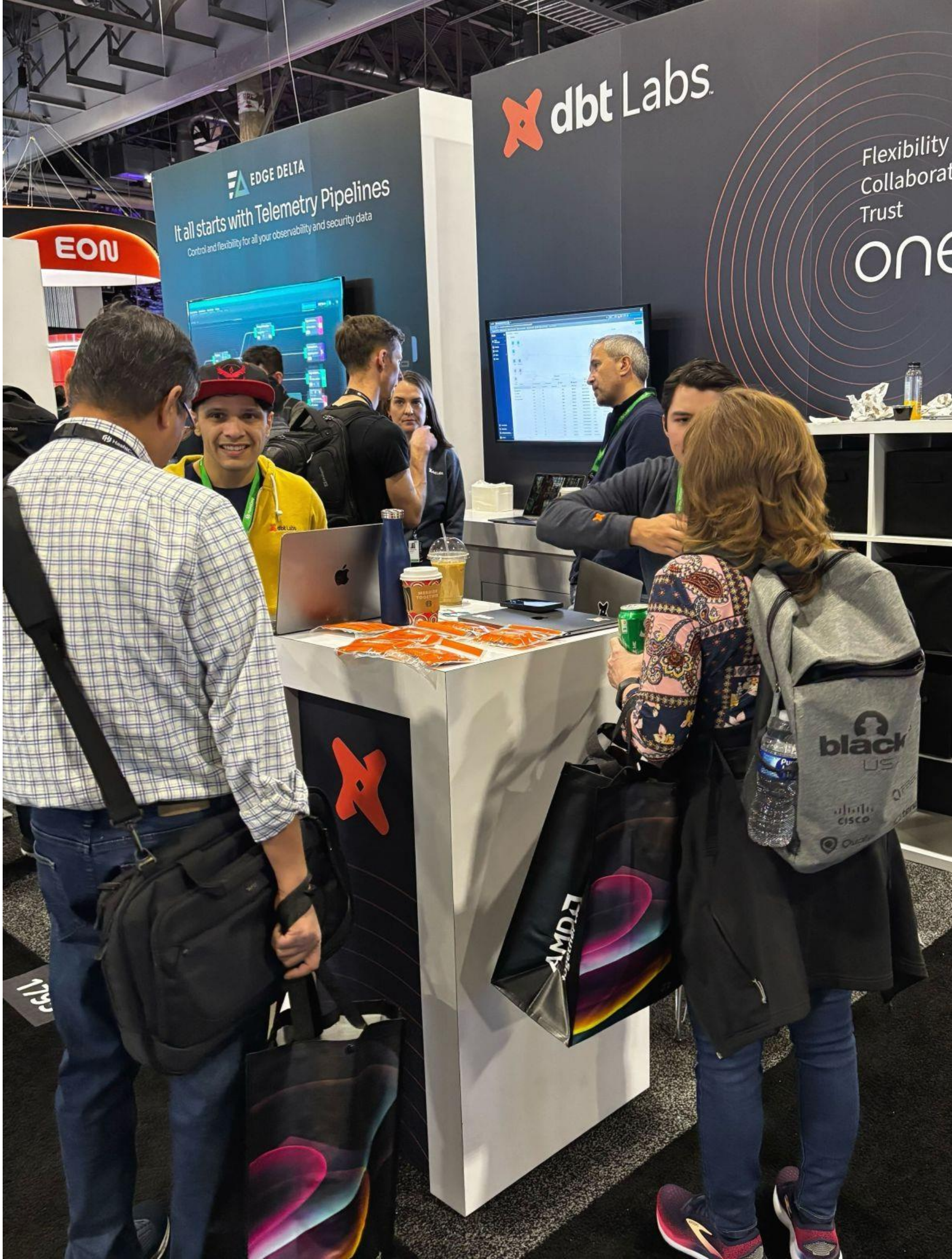
DBT



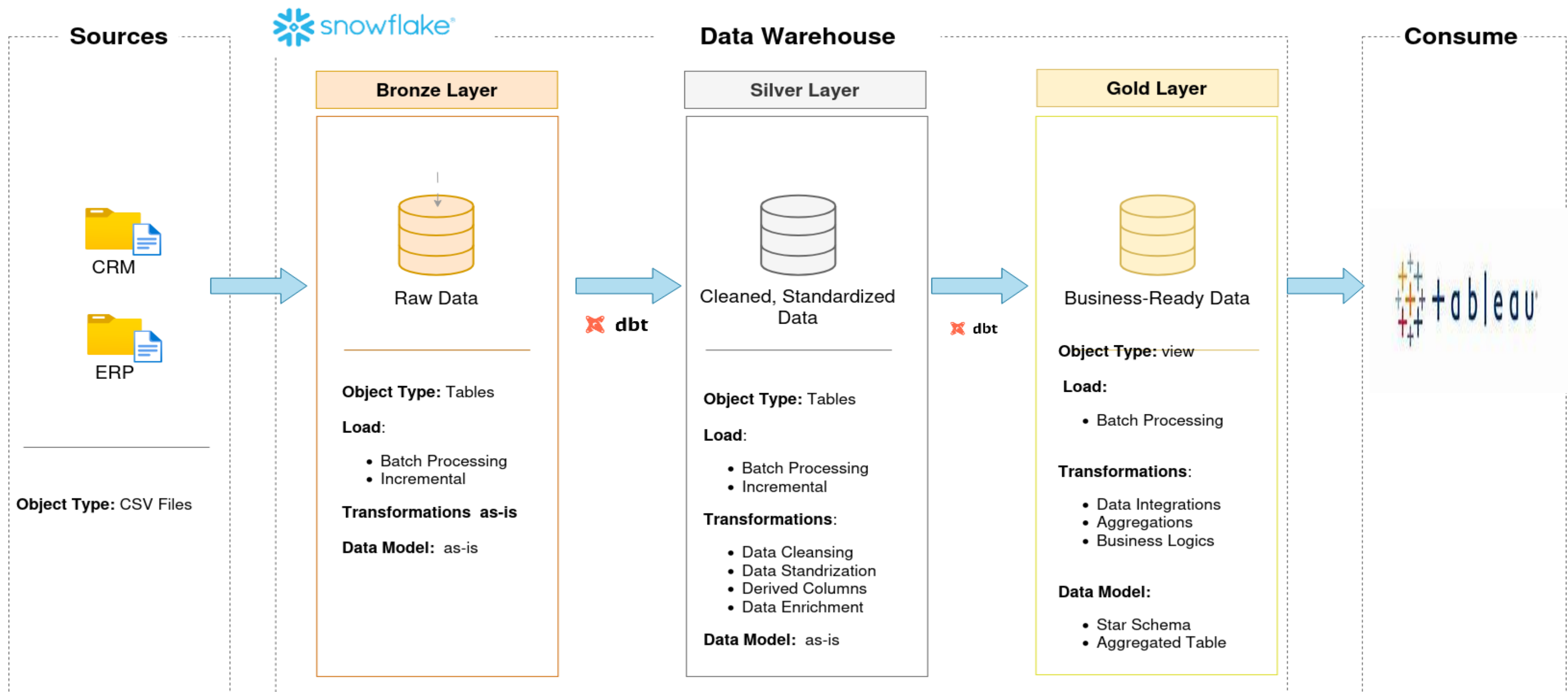
snowflake



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WORKFLOW DIAGRAM



BUSINESS OBJECTIVE:

DEVELOP AN **END-TO-END DATA WAREHOUSE** SOLUTION THAT:

Building the Data Warehouse
Objective

Develop a modern data warehouse using Snowflake to consolidate sales data, enabling analytical reporting and informed decision-making.

Specifications

Data Sources: Import data from two source systems (ERP and CRM) provided as CSV files.

Data Quality: Cleanse and resolve data quality issues to analysis.

Integration: Combine both sources into a single, user-friendly data model designed for analytical queries.

Scope: Focus on the latest dataset only; historization of data is not required.

Documentation: Provide clear documentation of the data model to support both business stakeholders and analytics teams.

SOLUTION PREREQUISITES

To implement this end-to-end data warehouse solution, the following prerequisites must be met:

Software & Infrastructure Requirements :

DBT (Data Build Tool): For building and transforming data models SQL Query.

- **Snowflake: As the data warehouse.**
- **BI Tool : For visualizing the reporting layer**

DATA SOURCE

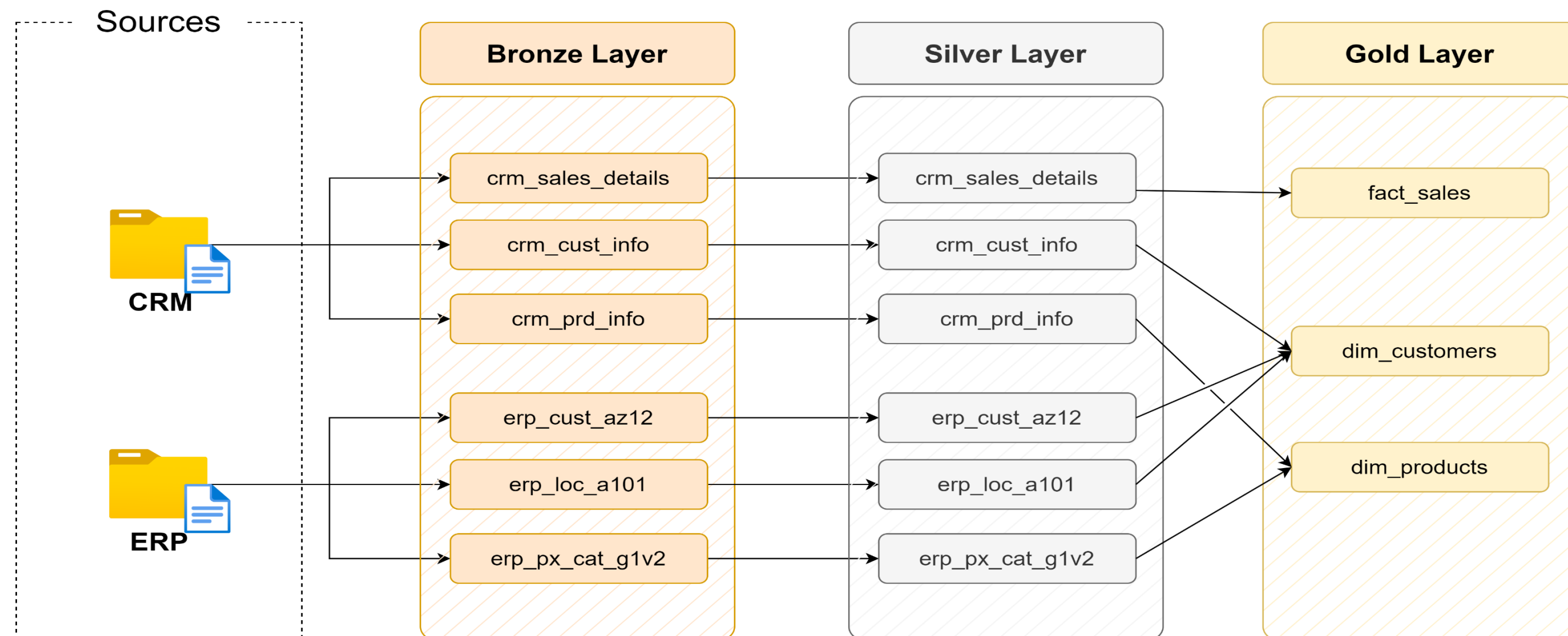
Bronze Layer (Raw Data): Stores unprocessed and ingested data from various sources

- **Silver Layer (Cleansed Data):** Cleans and pre-processes data for transformation and enrichment

- **Gold Layer (Aggregated Data):** Optimized for analytics, reporting, and business intelligence.

Design data flow

Data Flow (data Lineage)



DBT DATA LINEAGE

Lineage Graph



THANK YOU