



Bronze Layer



Silver Layer

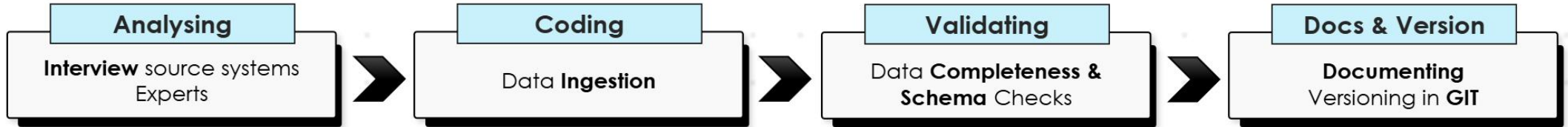


Gold Layer

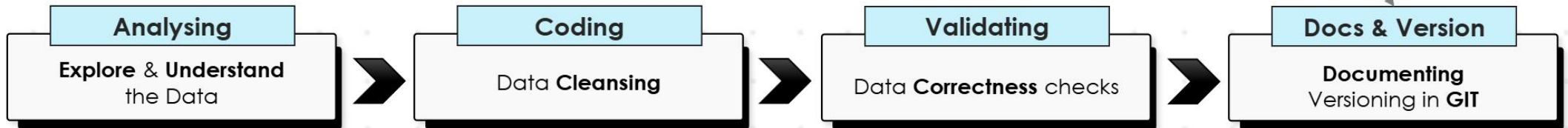
Definition	Raw, unprocessed data as-is from sources	Clean & standardized data	Business-Ready data
Objective	Traceability & Debugging	(Intermediate Layer) Prepare Data for Analysis	Provide data to be consumed for reporting & Analytics
Object Type	Tables	Tables	Views
Load Method	Full Load (Truncate & Insert)	Full Load (Truncate & Insert)	None
Data Transformation	None (as-is)	<ul style="list-style-type: none">- Data Cleaning- Data Standardization- Data Normalization- Derived Columns- Data Enrichment	<ul style="list-style-type: none">- Data Integration- Data Aggregation- Business Logic & Rules
Data Modeling	None (as-is)	None (as-is)	<ul style="list-style-type: none">- Star Schema- Aggregated Objects- Flat Tables
Target Audience	<ul style="list-style-type: none">- Data Engineers	<ul style="list-style-type: none">- Data Analysts- Data Engineers	<ul style="list-style-type: none">- Data Analysts- Business Users



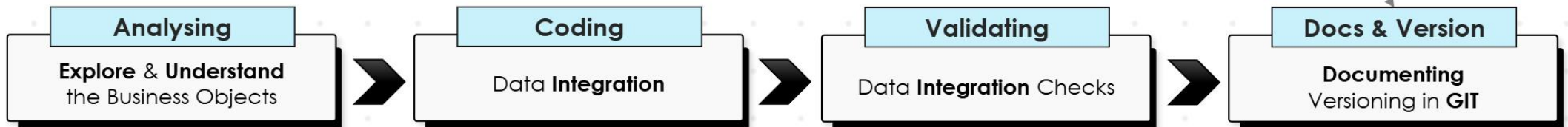
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Source System Interview

Business Context & Ownership

Who **owns** the **data**?

What **Business Process** it supports?

System & Data **documentation**

Data **Model** & Data **Catalog**

Architecture & Technology Stack

How is data **stored**?
(SQL Server, Oracle, AWS, Azure, ...)

What are the **integration capabilities**?
(API, Kafka, File Extract, Direct DB, ...)

Extract & Load

Incremental vs. **Full Loads** ?

Data **Scope** & **Historical** Needs

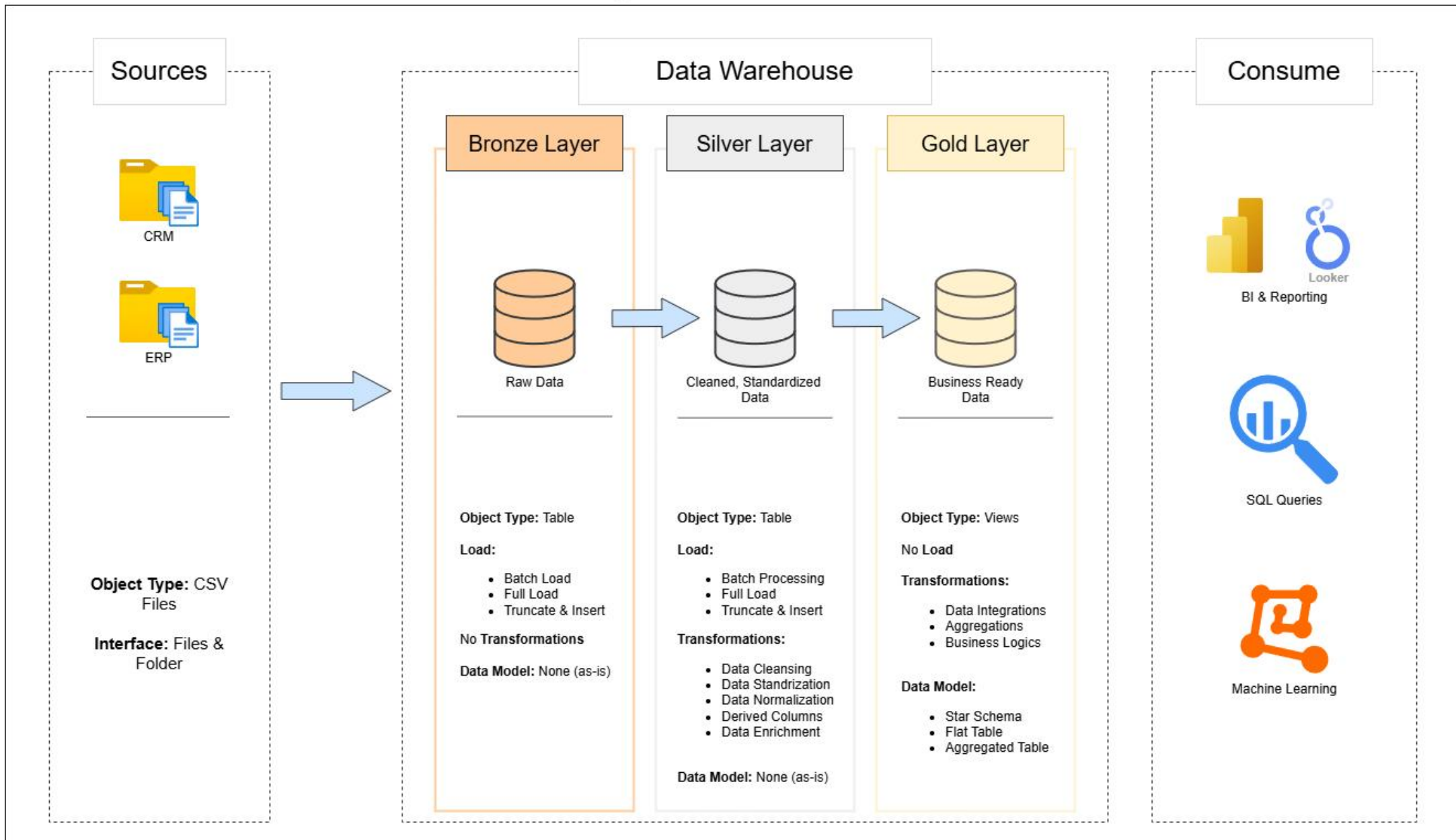
What is the expected **size** of the **extracts**?

Are there any data **volume limitations**?

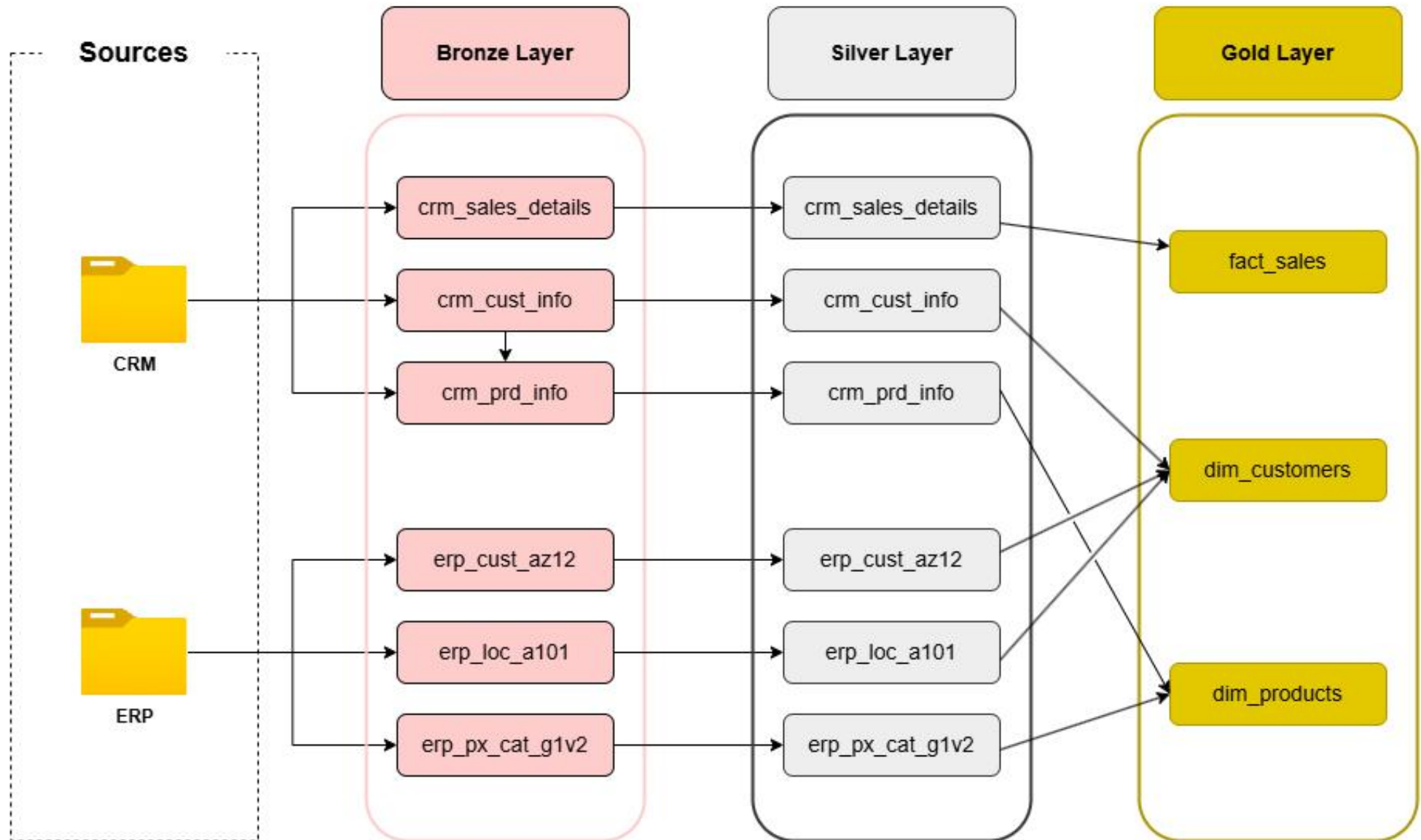
How to **avoid impacting** the source
system's **performance**?

authentication and **authorization**
(tokens, SSH keys, VPN, IP whitelisting, ...)

High Level Architecture



DATA FLOW (Data Lineage)



CRM

Transactional Records about Sales & Orders

crm_sales_details
prd_key
cst_id
SALES

Current & History Product Information

crm_prd_info
prd_key
PRODUCT

Customer Information

crm_cust_info
cst_id
cst_key
CUSTOMER

ERP

Product Categories

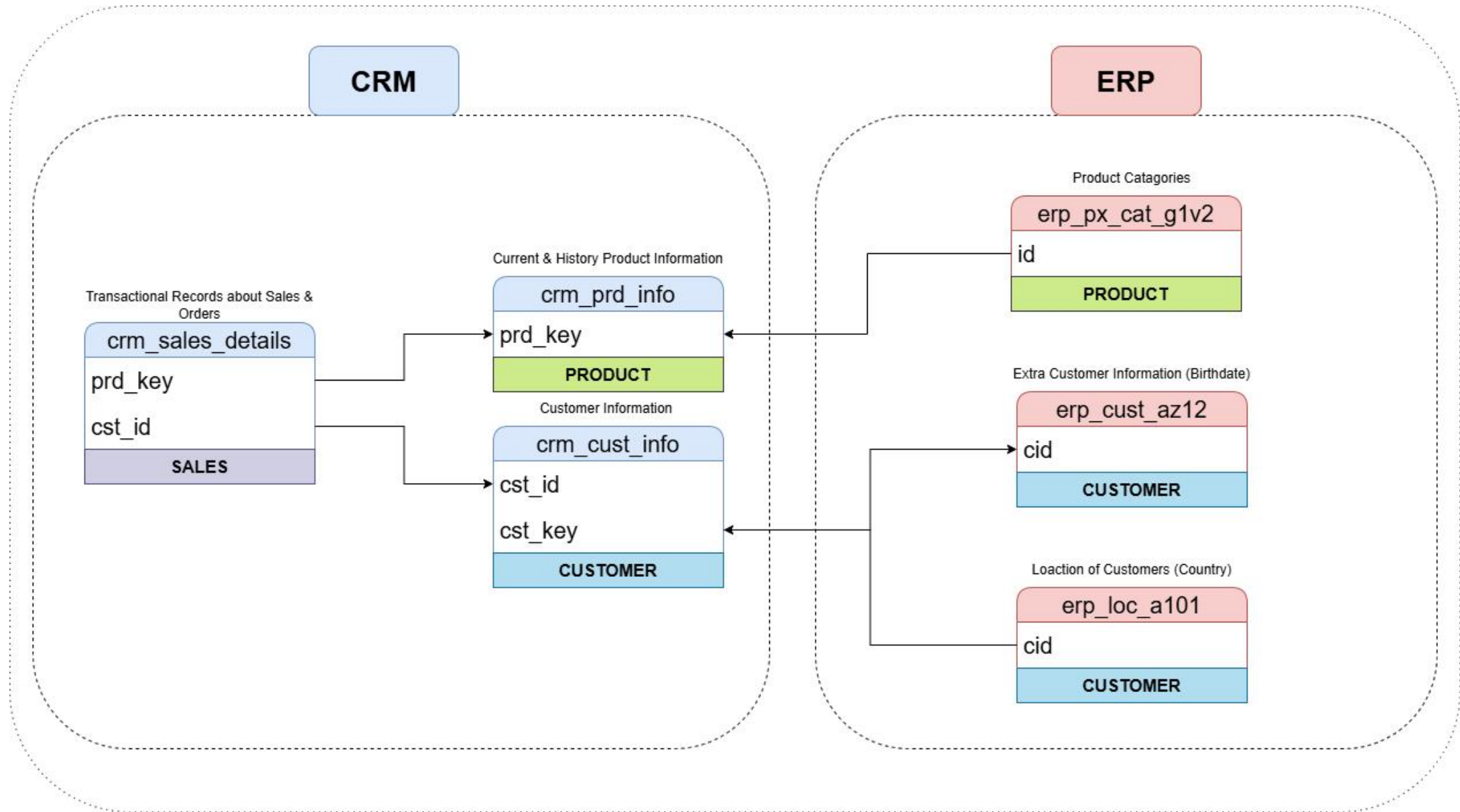
erp_px_cat_g1v2
id
PRODUCT

Extra Customer Information (Birthdate)

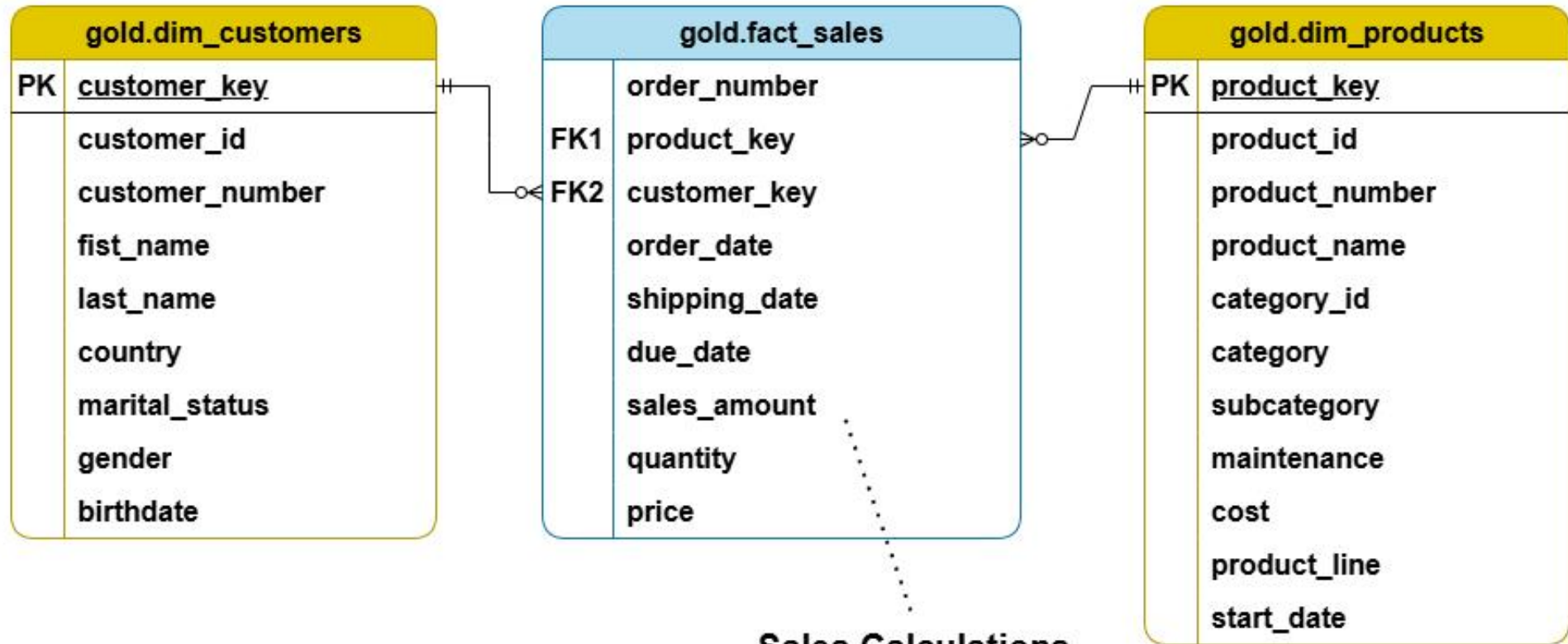
erp_cust_az12
cid
CUSTOMER

Loaction of Customers (Country)

erp_loc_a101
cid
CUSTOMER



Sales Data Mart (Star Schema)



Sales Calculations

Sales = Quantity * Price