

Sources



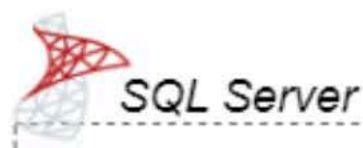
CRM



ERP

Object Type: CSV Files

Interface: Files in Folders



SQL Server

Data Warehouse

Bronze Layer

Stored Procedure



Raw Data

Object Type: Tables

Load:

- Batch Processing
- Full Load
- Truncate & Insert

No Transformations

Data Model: None (as-is)

Silver Layer

Stored Procedure



Cleaned, Standardized
Data

Object Type: Tables

Load:

- Batch Processing
- Full Load
- Truncate & Insert

Transformations:

- Data Cleansing
- Data Standardization
- Data Normalization
- Derived Columns
- Data Enrichment

Data Model: None (as-is)

Gold Layer



Business-Ready Data

Object Type: Views

No Load

Transformations:

- Data Integrations
- Aggregations
- Business Logics

Data Model:

- Star Schema
- Flat Table
- Aggregated Table

Consume



BI & Reporting



Ad-Hoc
SQL Queries



Machine Learning

Sources



Bronze Layer

crm_sales_details

crm_cust_info

crm_prd_info

erp_cust_az12

erp_loc_a101

erp_px_cat_g1v2

Silver Layer

crm_sales_details

crm_cust_info

crm_prd_info

erp_cust_az12

erp_loc_a101

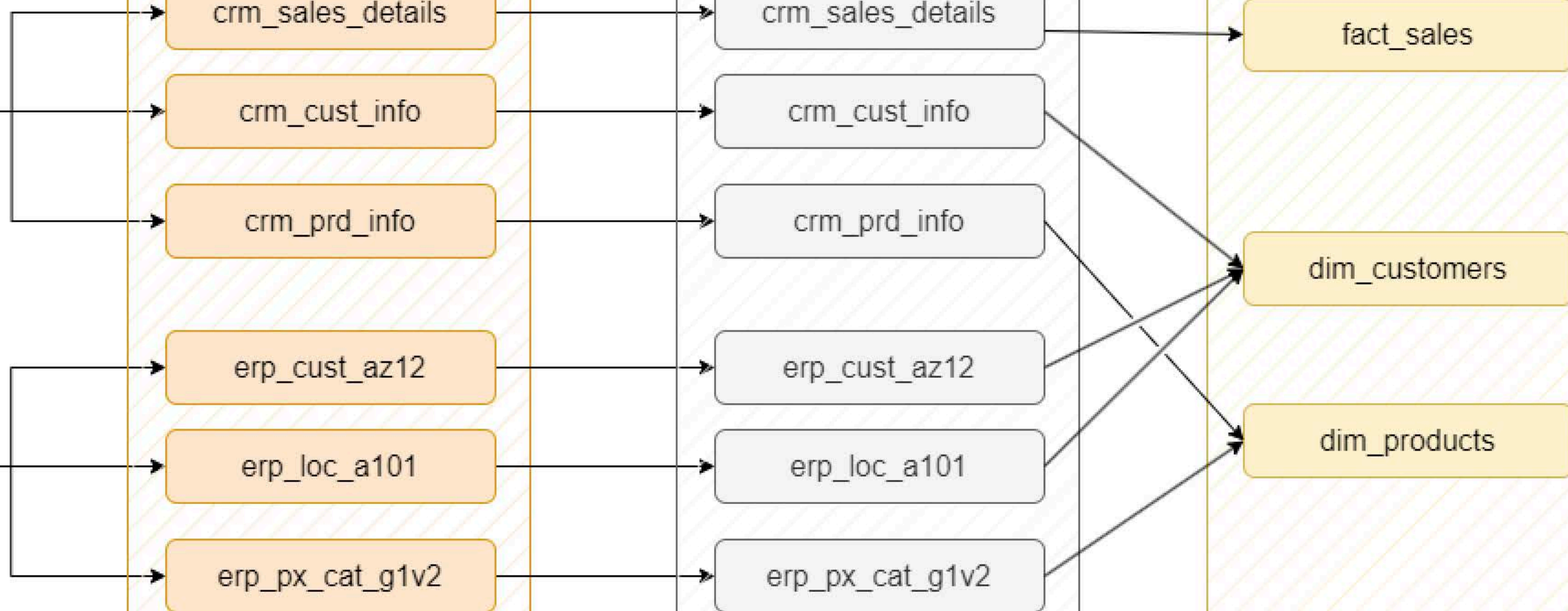
erp_px_cat_g1v2

Gold Layer

fact_sales

dim_customers

dim_products



Customer Relationship Management

CRM

Current & History Product Information

crm_prd_info

prd_key

PRDOUCT

Transactional Records about Sales & Orders

crm_sales_details

prd_key

cst_id

SALES

Customer Information

crm_cust_info

cst_id

cst_key

CUSTOMER

Enterprise Resource Planning

ERP

Product Categories

erp_px_cat_g1v2

id

PRDOUCT

Extra Customer Information (Birthdate)

erp_cust_az12

cid

CUSTOMER

Location of Customers (Country)

erp_loc_a101

cid

CUSTOMER

marital_status
- Married
- Single

gold.dim_customers	
PK	<u>customer_key</u>
	customer_id
	customer_number
	first_name
	last_name
	country
	marital_status
	gender
	birthdate
	country

gold.fact_sales	
	order_number
FK1	<u>product_key</u>
FK2	<u>customer_key</u>
	order_date
	shipping_date
	due_date
	sales_amount
	quantity
	price

Sales Calculation

$$\text{Sales} = \text{Quantity} * \text{price}$$

gold.dim_products	
PK	<u>product_key</u>
	product_id
	product_number
	product_name
	category_id
	category
	subcategory
	maintenance
	cost
	product_line
	start_date

maintenance
- Yes
- No

