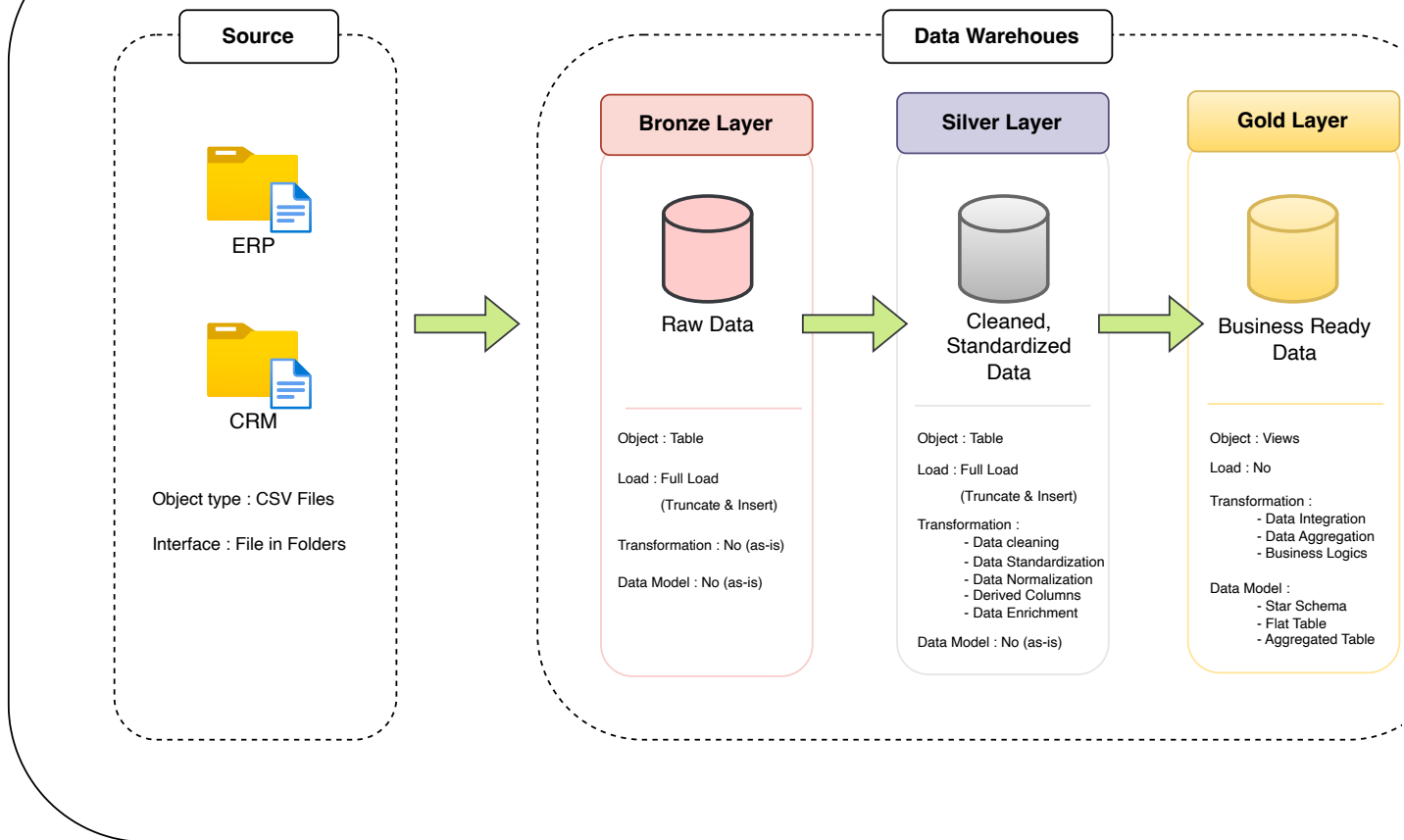


High Level Architecture



Consume



BI & Reporting



Ad-Hoc
SQL Queries



Machine Learning

Data Warehouse Naming Rules

General Principles

- Naming Convention : Use snake_case, with lower letters and Underscore(_) to separate words.
- Language : Use English for all name
- Avoid Reserved Word : Do not use SQL reserved words as object names.

Table Naming Conventions

1. Bronze Rules

- All names must start with source system name, and table name must match their original names without renaming.
- <sourcesystem>_<entity>
 - <sourcesystem> : Name of source system (ex : crm , erp)
 - <entity> : Exact table name from the source system.
 - Ex: crm_customer_info -> Customer information from the CRM system.

2. Silver Rules

- All names must start with source system name, and table name must match their original names without renaming.
- <sourcesystem>_<entity>
 - <sourcesystem> : Name of source system (ex : crm , erp)
 - <entity> : Exact table name from the source system.
 - Ex: crm_customer_info -> Customer information from the CRM system.

3. Gold Rules

- All names must use meaningful, business-aligned names for table, starting with the category prefix.
- <sourcesystem>_<entity>
 - <sourcesystem> : Describes the role of the table, such as "dim"(dimension) or fact(fact table)
 - <entity> : Descriptive name of the table, aligned with the business domain(ex: customer, product, sales)
 - Ex: dim_customers --> Dimension table for customer data.
fact_sales --> Fact table of sales transactions.

Glossary of Category Pattern

Pattern	Meaning	Example(s)
dim_	Dimesion table	dim_customer, dim_product
fact_	Fact table	fact_sales
agg_	Aggregated table	agg_customes, agg_sales_monthly

Column Naming Conventions

1. Surrogate Keys

- All primary keys in dimension tables must use the suffix "_key"
- <table_name>_key
 - <table_name> : Refers to the name of the table or entity the key belongs to.
 - _key: A suffix indicating that this column is a surrogate key.
- Ex: "customer_key" -> Surrogate key in the "dim_customers" table

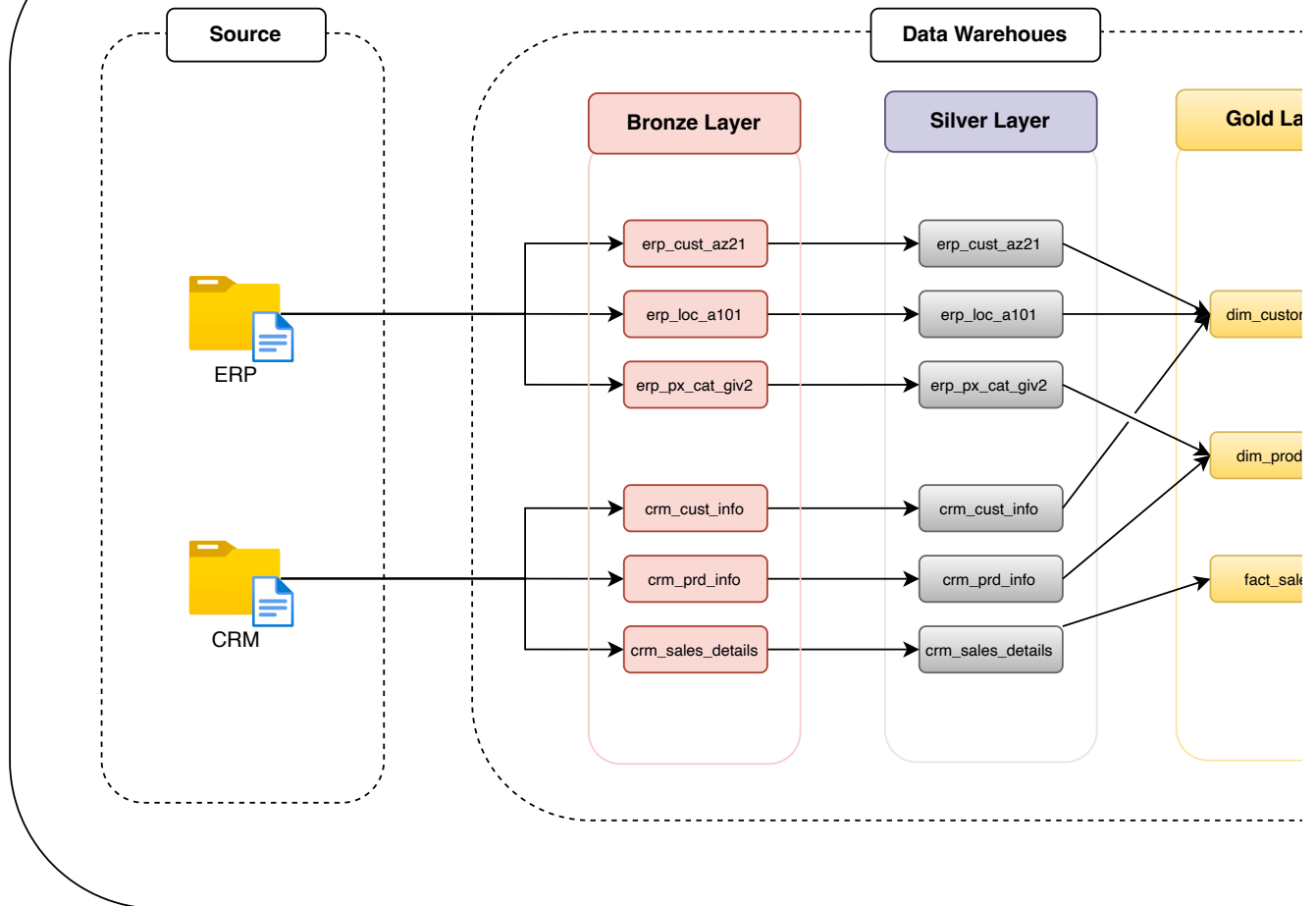
2. Technical Column

- All technical column must start with the prefix "dwh_", followed by a descriptive name indicating the column's purpose.
- dwh_<column_name>
 - dwh_: Prefix exclusive for system-generated metadata
 - <column_name> : Descriptive name indicating the column's purpose.
- Ex: "dwh_load_date" -> System-generated column used to store the date when the record was load.

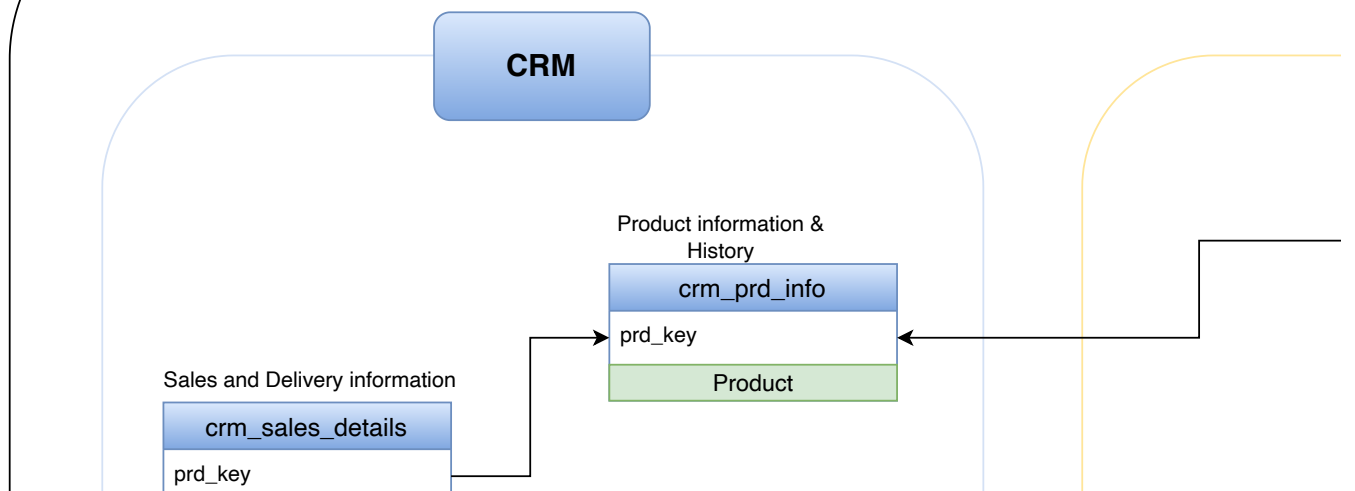
3. Store Procedure

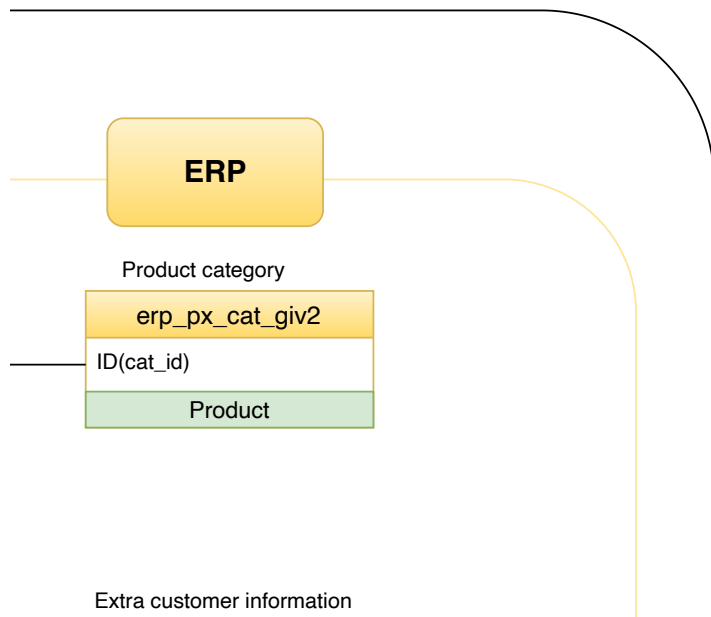
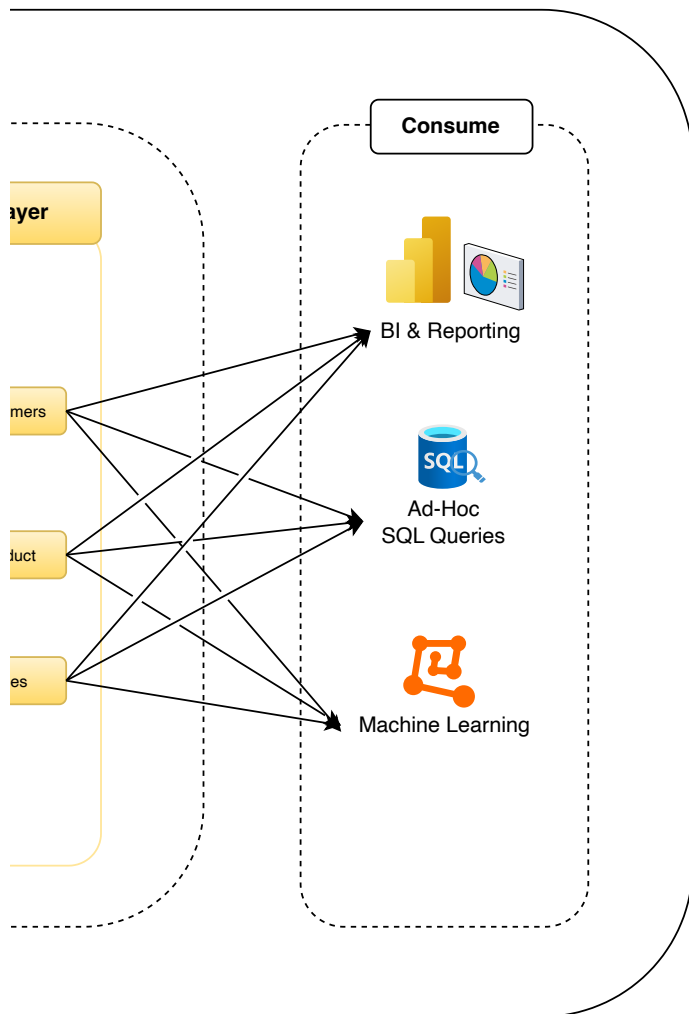
- All store procedure use for loading data must following the naming pattern.
- load_<layer>
 - load_: Prefix exclusive for procedure
 - <layer> : Represents the layer being loaded, such as "brozne", "silver", "gold"
- Ex: load_bronze -> Store procedure for loading data in to the Bronze layer
load_silver -> Store procedure for loading data in to the Silver layer

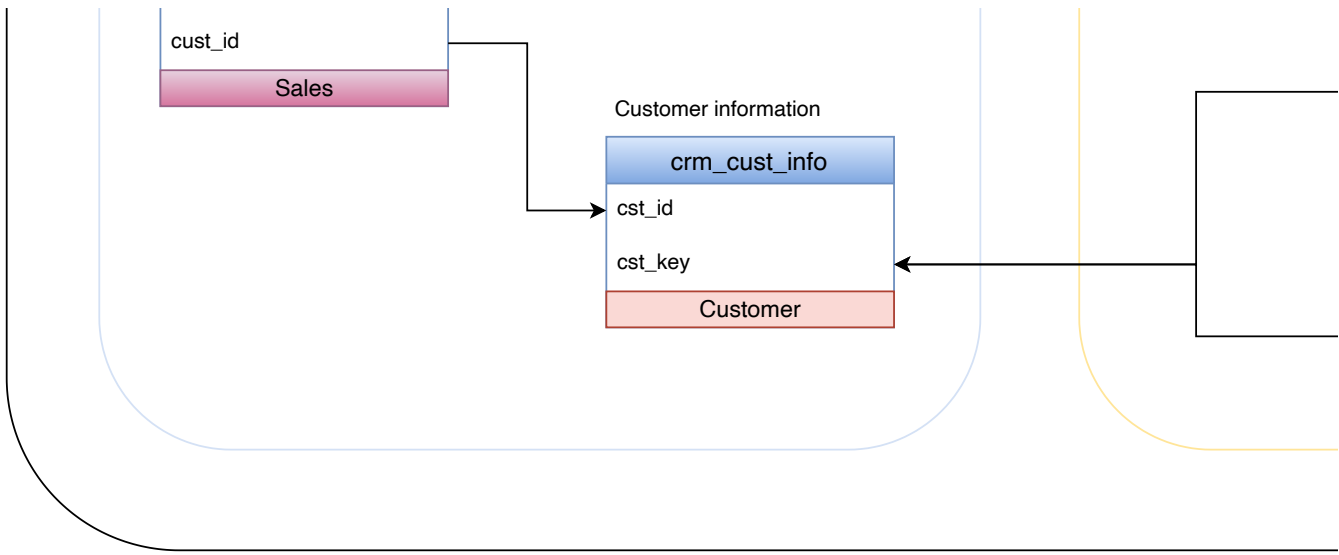
Data Flow

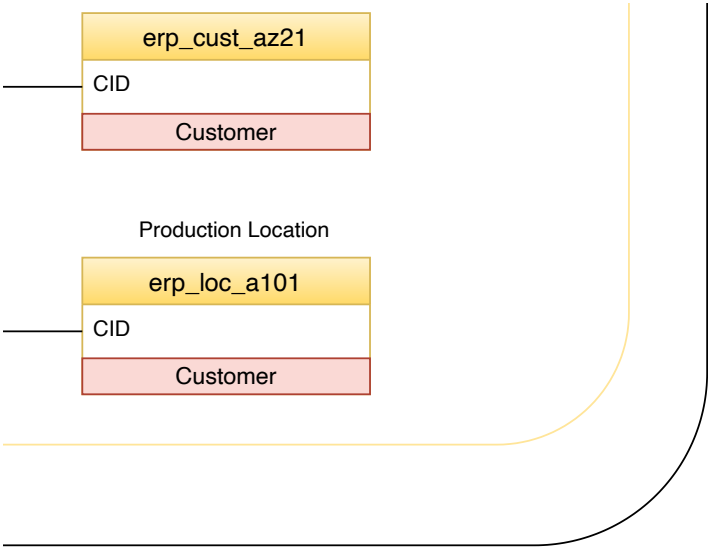


Data Object Relation









Sales Data Mart : Star Schema

