Data Dictionary for Gold Layer

Overview

The Gold Layer represents the enterprise-standard, analytics-ready tier of the Sales Data Mart. All entities within this layer are fully conformed, quality-assured, enriched, and modeled to support strategic reporting, cross-functional insights, and scalable decision intelligence. This layer encapsulates harmonized business definitions, curated dimensional structures, and trusted fact tables optimized for BI consumption and enterprise governance.

1. CUSTOMER_DIM

Purpose

Conformed customer dimension consolidating CRM and ERP sources.

Primary Key

- **customer_key** — VARCHAR(50)

Columns

Column Name	Data Type	Description
customer_key	VARCHAR(50)	Surrogate key.
customer_id	VARCHAR(50)	Original CRM/ERP ID.
full_name	TEXT	Customer full name.
marital_status	VARCHAR(20)	Marital classification.
gender	VARCHAR(20)	Enriched gender attribute.
country	VARCHAR(50)	Country derived from ERP location data.
create_date	DATE	Customer creation date.
birth_date	DATE	Customer DOB from ERP.

2. PRODUCT_DIM

Purpose

Product details with category, lifecycle, and cost attributes.

Primary Key

• **product_key** — VARCHAR(50)

Columns

Column Name	Data Type	Description
product_key	VARCHAR(50)	Conformed product key.
product_id	VARCHAR(50)	Source system product ID.
category_id	VARCHAR(50)	ERP category ID.
product_number	VARCHAR(50)	Vendor or manufacturer product number.
product_name	VARCHAR(150)	Descriptive product name.
product_line	VARCHAR(100)	High-level product line.
category	TEXT	Product category.
sub_category	TEXT	Product sub-category.
maintenance	TEXT	Maintenance or support classification.
start_date	DATE	Product introduction date.
cost	NUMERIC(12,2)	Standard product cost.

3. SALES_FACT

Purpose

Transactional fact table capturing sales order line details.

Primary Key

Composite: **order_number**, **product_key**

Columns

Column Name	Data Type	Description
order_number	VARCHAR(50)	Sales order number.
customer_key	VARCHAR(50)	FK → customer_dim.
product_key	VARCHAR(50)	FK → product_dim.
customer_id	VARCHAR(50)	Customer operational ID.

Column Name	Data Type	Description
order_date	DATE	Date the order was placed.
ship_date	DATE	Shipment execution date.
sales_due_date	DATE	Expected delivery due date.
sales_price	NUMERIC(12,2)	Unit sales price.
sales_quantity	INTEGER	Quantity sold.
total_sales	NUMERIC(14,2)	Total transaction value.

Notes

- All VARCHAR lengths chosen based on typical enterprise conventions.
- NUMERIC precision supports financial reporting accuracy.
- DATE fields standardize temporal analysis.
- Designed based on PostgreSQL best practices.