Data Directory for Gold Layer

Overview

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The Gold Later is the business level data representation, structured to support analytical reporting use case. It contains 'dimension tables'

and 'fact tables' for specific business metrics.

1. gold.dim_customers

- Purpose: Stores customer details enriched with demographic and geographic data.
- Columns:

Column Name	Data Type	Description
customer_key	INT	Surrogate key uniquely identifying each customer record in the dimension table.
customer_id	INT	Unique numerical identifier assigned to each customer.
customer_number	VARCHAR	Alphanumerical identifier representing the customer used for tracking and referring.
first_name	VARCHAR	The customer's first name as recorded in the system.
last_name	VARCHAR	The customer's last name or family name.
country	VARCHAR	The country of residence for the customer (e.g., "Australia").
marital_status	VARCHAR	The marital status of the customer (e.g., 'Married', 'Single').
gender	VARCHAR	The gender of the customer (e.g., 'Male', 'Female', 'n/a').
birthdate	DATE	The date of birth of the customer, formatted as YYY-MM-DD (e.g., 1971-10-06).
created_date	DATE	The date and time when the customer record was created in the system

2. gold.dim_products

• Purpose: Provide information about the products and their attributes.

• Columns:

Column Name	Data Type	Description
produc_key	INT	Surrogate key uniquely identifying each product record in the
		product dimension table.
product_id	INT	A unique identifier assigned to the product for internal tracking
		and referencing.
product_number	VARCHAR(50)	A structured alphanumerical code representing the product,
		often used for categorization or inventory.
product_name	VARCHAR(50)	Descriptive name of the product, including key details such as
		type, color size.
cateogory_id	VARCHAR(50)	A unique identifier for the product's category, linking to its high-
		level classification.
category	VARCHAR(50)	The broad classification of the product (e.g., Bikes,
		Components) to group related items.
subcategory	VARCHAR(50)	A more detailed classification of the product within the
		category, such as product type.

maintenance_required	VARCHAR(50)	Indicates whether the product requires maintenance (e.g., 'Yes', 'No').
cost	INT	The cost or base price of the product, measured on monetary units.
product_line	VARCHAR(50)	The specific product line or series to which the product belongs (e.g., Road, Montaine).
start_date	DATE	The date when the product became available for sale or use, stores.

3. gold.fact_sales

• Purpose: Stores transactional sales data for analytical purposes.

• Clumns:

Column Name	Data Type	Description
order_number	VARCHAR(50)	A unique alphanumerical number for each sales order (e.g., 'SO54496').
product_key	INT	Surrogate key linking the order to the product dimension table.
customer_key	INT	Surrogate key linking the order to the customer dimension table.
order_date	DATE	The date when the order was placed.
shipping_date	DATE	The date when the order was shipped to the customer.
due_date	DATE	The date when the order payment is due.
sales_amount	INT	The total monetary values of the sale for the line item, in the whole currency unit (e.g., 25).
quantity	INT	The number of units of the products ordered for the line item (e.g., 1)
price	INT	The price per unit of the product for the line item, in the whole currency unit (e.g., 25)