

## Data Catalog for Gold Layer

### Summary

The Gold Layer is the business-level data presentation, structured to support analytical and reporting use cases. It consists of dimension tables and fact tables for specific business metrics.

#### 1. gold.dim\_customer

- Purpose: This table stores customer details enriched with customer demographic and geographical data.
- Column:

Column Name	Data Type	Description
customer_key	INT	These are surrogate key that uniquely identifying each customer record in the dimension table
customer_id	INT	Unique numerical identifier assigned to each customer
customer_number	NVARCHAR(50)	Alphanumeric identifier representing the customer, used for tracking and referencing.
first_name	NVARCHAR(50)	The customer's first name, as recorded in the system.
last_name	NVARCHAR(50)	The customer's last name or family name as recorded in the system.
country	NVARCHAR(50)	The country of residence for the customer (e.g., 'United States').
marital_status	NVARCHAR(50)	The marital status of the customer (e.g., 'Married', 'Single').

gender	NVARCHAR(50)	The gender of the customer (e.g., 'Male', 'Female', 'n/a').
birthdate	DATE	The date of birth of the customer, formatted as YYYY-MM-DD (e.g., 1971-10-06)
create_date	DATE	The date and time when the customer record was created in the system

## 2. gold.dim\_product

- Purpose: This table gives detailed information about products and its attributes.
- Column:

Column Name	Data Type	Description
product_key	INT	These are surrogate key that 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	NVARCHAR(50)	This is a structured alphanumeric code representing the products, used for categorization and inventory.
product_name	NVARCHAR(50)	Descriptive name of the product, including key details such as type, color, and size as recorded in the system.
category_id	NVARCHAR(50)	A unique identifier for the product's

		category, linking to its high-level classification. category
category	NVARCHAR(50)	The broader classification of the product (e.g., Bikes, Components) to group related items.
subcategory	NVARCHAR(50)	A more detailed classification of the product within the category, such as product type
maintenance	NVARCHAR(50)	This column indicates whether the product requires maintenance or not (e.g., 'Yes', 'No').
cost	INT	The cost or base price of the product, measured in monetary units
product_line	NVARCHAR(50)	The date and time when the customer record was created in the system
start_date	DATE	The date when the product became available for sale or use, stored in the system.

### 3. gold.fact\_sales

- Purpose: This table stores transaction sales data for analytical purposes.
- Column:

Column Name	Data Type	Description
order_number	NVARCHAR(50)	A unique alphanumeric identifier 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 was due.
sales_amount	INT	The total monetary value of the sale for the line item, in whole currency units (e.g., 25).
quantity	INT	The number of units of the product ordered for the line item (e.g., 1)
price	INT	The price per unit of the product for the line item, in whole currency units (e.g., 25)