Data Catalog

# Overview

This data catalog provides a structured description of the datasets available in the **gold** layer of the data warehouse. The catalog includes detailed metadata for each table, specifying column names, data types, descriptions, and additional constraints.

The data warehouse consists of **dimension tables** (dim\_customers, dim\_products) and a **fact table** (fact\_sales).

* **Dimension Tables**: Store descriptive attributes (e.g., customer and product details).
* **Fact Table**: Stores transactional data related to sales.

# Table Descriptions

## gold.dim\_customers

This table contains information about customers, including demographic attributes and unique identifiers.

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Type | Descrption | Additional information |
| customer\_key | INT | Surrogate key uniquely identifying each customer | Primary key, not NULL |
| customer\_id | INT | Unique numerical code assigned to each customer | Unique, Not NULL |
| customer\_number | VARCHAR(50) | Unique alphabetivcal code assigned to each customer | Unique, Not NULL |
| first\_name | VARCHAR(50) | The first name of the customer | Not NULL |
| last\_name | VARCHAR(50) | The last name of the customer | Not NULL |
| gender | VARCHAR(50) | The gender of the customer | Values : ‘Male’, ‘Female’ or ‘n/a’, not NULL |
| country | VARCHAR(50) | The customer country of residence (e.g. ‘United States’) | |  | | --- | | Not NULL |  |  | | --- | |  | |
| marital\_status | VARCHAR(50) | The marital status of the customer | Values : ‘Single, ‘Maried or ‘n/a’, not NULL |
| create\_date | DATE | The date when the costumer get created in the system | May be NULL, date format : ‘YYYY-MM-DD’ |
| brith\_date | DATE | The birthdate of the customer | May be NULL, date format : ‘YYYY-MM-DD’ |

## gold.dim\_products

This table stores product-related attributes, including category, subcategory, and cost information.

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Type | Descrption | Additional Information |
| product\_key | INT | Surrogate key uniquely identifying each product | Primary key, not NULL |
| product\_id | INT | Unique numerical code assigned to each product | Unique, not NULL |
| product\_number | VARCHAR(50) | Unique abphabetical code assigned to each product | Unique, not NULL |
| Category\_id | VARCHAR(50) | Alphabetical code associated to each category | Not NULL |
| product\_name | VARCHAR(50) | The name of the product | Not NULL |
| category | VARCHAR(50) | The category in which the product belong | Not NULL |
| subcategory | VARCHAR(50) | The subcategory in which the product belong | Not NULL |
| product\_line | VARCHAR(50 | The product line | Value : ‘Mountain’, ‘Sport’, ‘Touring’ , ‘Road’, ‘Other’, Not NULL |
| maintenance | VARCHAR(50) | Indicate if the product requires maintenance or not | Value : ‘Yes’ or ‘No’ |
| cost | INT | Integer value representing the cost of the product | Value can be 0 |
| Product\_start\_date | DATE | The date when the product starts selling | Not NULL |

## gold.fact\_sales

This table stores transactional sales data, including order details and sales metrics.

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Type | Descrption | Additional Information |
| order\_id | VARCHAR(50) | Alphabetical code assigned to each order | not NULL, an order may contain mutiple product |
| customer\_key | INT | Numerical code assigned to each customer | Foreign Key, not NULL |
| product\_key | INT | Numerical code assigned to each product | Foreign Key, not NULL |
| Order\_date | DATE | The date when the order is made | Not NULL, date format : ‘YYYY-MM-DD’ |
| Ship\_date | DATE | The date when the order is shipped | Not NULL  format : ‘YYYY-MM-DD’ |
| Due\_date | DATE | The maximum date when the order must be shipped | Not NULL  format : ‘YYYY-MM-DD’ |
| Sales\_value | INT | The value corresponding to the product ordered quantity | Value >= 0, not NULL  Sales\_value = quantity \* unit\_price |
| quantity | INT | The product ordered quantity | Value >=0, Not NULL |
| Unit\_price | INT | The value of 1 unit of the ordered product | Value >=0, Not NULL |