**Data Catalogue for Gold Layer**

**Overview**

Gold layer is the business-level data representation, structured to support analytical and reporting use cases.

It consists of **Dimension Tables** and **Fact Tables** for specific business metrics.

1. **Gold dim\_customers**:

This dimension table stores customer data 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 | NVARCHAR(50) | Alphanumeric identifier representing the customer. Used for tracking and referencing. |
| first\_name | NVARCHAR(50) | Customer’s first name as recorded in the system. |
| last\_name | NVARCHAR(50) | Customer’s last name or family name. |
| country | NVARCHAR(50) | Country of residence for customer (e.g. Canada) |
| marital\_status | NVARCHAR(50) | The marital status of the customer (e.g. ‘Married’, ‘Single’) |
| gender | NVARCHAR(50) | 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. 1983-03-19) |
| create\_date | DATE | The date when the customer recorded in the system. |

1. **Gold dim\_products**:

This dimension table provides information about the products and their attributes.

Columns:

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| product\_key | INT | Surrogate key uniquely identifying each product record. |
| product\_id | INT | A unique identifier assigned to the product for internal tracking and referencing. |
| product\_number | NVARCHAR(50) | A structured alphanumeric code representing the product, often used for categorization and inventory. |
| product\_name | NVARCHAR(50) | Descriptive name of the product, including key details such as type, colour and size. |
| category\_id | NVARCHAR(50) | A unique identifier for the product’s category, linking to its high-level classification. |
| category | NVARCHAR(50) | A broader classification of the products (e.g. bike, 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) | Indicates whether the product requires maintenance (e.g. ‘Yes’, ‘No’). |
| cost | INT | The cost of base price of the product measured in monetary units. |
| product\_line | NVARCHAR(50) | The specific product line or series to which the product belongs (e.g. ‘Road’, ‘Mountain’) |
| start\_date | DATE | The date when the product became available for use/sale. |

1. **Gold fact\_sales**:

This fact table stores transactional data for analytical purposes.

Columns:

|  |  |  |
| --- | --- | --- |
| **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). |