**Data Warehouse Naming Conventions**

This document outlines the naming conventions for schemas, tables, views, columns, and other objects within the data warehouse.

**1. General Principles**

* **Use snake\_case**: Lowercase letters with underscores (\_) to separate words.
* **Language**: English only.
* **Avoid Reserved Words**: Do not use SQL reserved words as object names.

**2. Table Naming Conventions**

**2.1 Bronze Rules**

* Names must start with the source system name.
* Table names must match the original source table names.

**Pattern:**

<sourcesystem>\_<entity>

* <sourcesystem>: Name of the source system (e.g., crm, erp)
* <entity>: Exact table name from the source system

**Example:**

crm\_customer\_info → Customer information from the CRM system

**2.2 Silver Rules**

* Follow the same conventions as Bronze tables.
* Names start with the source system and match the original table names.

**Pattern:**

<sourcesystem>\_<entity>

**Example:**

crm\_customer\_info → Customer information from the CRM system

**2.3 Gold Rules**

* Use meaningful, business-aligned names.
* Start with a category prefix.

**Pattern:**

<category>\_<entity>

* <category>: Table role (e.g., dim for dimension, fact for fact table)
* <entity>: Business-aligned descriptive name

**Examples:**

* dim\_customers → Dimension table for customer data
* fact\_sales → Fact table containing sales transactions

**Glossary of Category Patterns**

|  |  |  |
| --- | --- | --- |
| Pattern | Meaning | Example(s) |
| dim\_ | Dimension table | dim\_customer, dim\_product |
| fact\_ | Fact table | fact\_sales |
| report\_ | Report table | report\_customers, report\_sales\_monthly |

**3. Column Naming Conventions**

**3.1 Surrogate Keys**

* All primary keys in dimension tables must use the \_key suffix.

**Pattern:**

<table\_name>\_key

**Example:**

customer\_key → Surrogate key in dim\_customers table

**3.2 Technical Columns**

* All technical/system columns must start with the prefix dwh\_.

**Pattern:**

dwh\_<column\_name>

**Example:**

dwh\_load\_date → Stores the date when the record was loaded

**4. Stored Procedure Naming Conventions**

* All stored procedures for loading data must follow the pattern:

**Pattern:**

load\_<layer>

* <layer>: Represents the data warehouse layer (bronze, silver, gold)

**Examples:**

* load\_bronze → Loads data into the Bronze layer
* load\_silver → Loads data into Silver layer