

Naming Conventions

This document outlines the naming standards used in the **Digital Allyship Toolkit Data Warehouse** to ensure consistency, readability, and maintainability across the Medallion Architecture (Bronze, Silver, Gold).

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General Principles

- **Naming Style:** Use snake_case (lowercase with underscores)
 - **Language:** English only
 - **Avoid Reserved Words:** Do not use SQL keywords (e.g., table, order, select)
 - **Singular Naming:** Use singular nouns for entities (user, course, module)
 - **Clarity First:** Names must clearly describe business meaning
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Table Naming Conventions

Bronze Layer Rules (Raw Data)

Bronze stores data exactly as received from the **LMS operational database and surveys**.

Pattern

<src>_<entity>

Where

- `src` = source system name
- `entity` = original table name (no renaming)

Source Systems Used

SOURCE	MEANING
lms	Digital Allyship platform database
survey	assessment forms (CSV ingestion)

Examples

```
lms_users  
lms_courses  
lms_lesson_activity  
lms_quiz_attempts  
survey_pre_assessment  
survey_post_assessment
```

Rule:

Do NOT rename columns or tables in Bronze.

Silver Layer Rules (Cleaned & Structured)

Silver contains cleaned and validated data structured for analytics.

Pattern

`<src>_<entity>`

Rules

- Keep same entity name as Bronze
- Data is cleaned and standardized
- Surrogate keys introduced
- Duplicates removed

Examples

```
lms_users  
lms_courses  
lms_learning_activity  
lms_assessment_results
```

Silver represents the **trusted single source of truth**

Gold Layer Rules (Business Analytics)

Gold contains business-ready dimensional models.

Pattern

<category>_<entity>

Categories

Prefix	Meaning	Example
dim_	Dimension tables	dim_user
fact_	Fact tables	fact_learning_activity
report_	Aggregated reporting tables	report_engagement_summary

Examples

```
dim_user  
dim_course  
fact_learning_activity  
fact_assessment  
report_engagement_summary  
report_completion_rate  
report_behaviour_change
```

Column Naming Conventions

Surrogate Keys

All dimension tables must use surrogate keys.

Pattern

<table_name>_key

Examples

user_key
course_key
module_key
department_key

Technical Columns (Metadata)

System-generated ETL columns must use the dwh_ prefix.

Pattern

dwh_<description>

Examples

dwh_load_date
dwh_update_date
dwh_source_system
dwh_batch_id
dwh_is_current
dwh_valid_from
dwh_valid_to

Stored Procedure Naming

All ETL stored procedures follow the pattern:

load_<layer>_<entity>

Examples

load_bronze_lms_users

```
load_bronze_survey_pre_assessment
```

```
load_silver_lms_users
```

```
load_silver_learning_activity
```

```
load_gold_dim_user
```

```
load_gold_fact_learning_activity
```

```
load_gold_report_engagement
```

Quick Summary

- **Bronze** → raw source data (lms_users)
 - **Silver** → cleaned trusted data (lms_users)
 - **Gold** → business models (dim_user, fact_learning_activity)
 - **Keys** → _key
 - **Metadata** → dwh_
 - **Procedures** → load_<layer>_<entity>
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