

Data Table Documentation

Introduction

This document provides an overview of the data tables used in this project. The tables are organized into two main folders: **kernel** and **extended**.

The only table that is strictly required is **receivals**, located in the **kernel** folder. However, it is highly recommended to also use **sales_orders** for improved context and analysis. Other tables are optional and can provide additional insight or metadata.

Receivals

File: /data/kernel/receivals.csv

rm_id

Unique identifier for the raw material.

product_id

Identifier for each specific product received. Each **rm_id** can have multiple **product_id**'s.

purchase_order_id

Links the receival to a corresponding purchase order.

date_arrival

UTC timestamp of material arrival.

date_arrival_local

Local time equivalent of **date_arrival**.

receival_status

Current status in text, such as "Completed".

net_weight

Weight of the product alone, excluding packaging or containers.

supplier_id

Links to supplier metadata.

Sales Orders

File: /data/kernel/sales_orders.csv

purchase_order_id

Order identifier, joinable with receivals and transportation.

quantity

Amount of product ordered.

delivery_date

Expected delivery date. Often placed at the end of the month or year.

product_id

Product identifier.

product_version

Version or subtype of the product.

created_date_time

Timestamp when the record was created.

created_date_time_local

Local time version of creation timestamp.

modified_date_time

Timestamp for last edit.

modified_date_time_local

Local version of modification timestamp.

unit_id

ID of the unit used (e.g., kg).

unit

Name of the unit, typically "kg".

status_id

Identifier for status.

status

Status text, e.g., "Closed".

Material

File: /data/extended/material.csv

product_id

Identifier for the product.

rm_id

Associated raw material ID.

product_version

Product version identifier.

raw_material_alloy

Alloy type used in the raw material.

raw_material_format_type

Physical form of raw material (e.g., block, powder).

stock_location

Storage or warehouse position.

Suppliers

File: /data/extended/suppliers.csv

purchase_order_id

Associated purchase order.

supplier_id

Unique supplier ID.

supplier_name

Anonymized supplier's name (e.g., supplier_A, supplier_B).

suppliers_weight

Gross weight reported by the supplier.

Transportation

File: /data/extended/transportation.csv

purchase_order_id

Linked order for transport.

transporter_name

Anonymized transporter's name (e.g., transporter_A, transporter_B).

vehicle_no

Anonymized vehicle identifier (e.g., vehicle_0, vehicle_1).

unit_status

Status such as loaded or in-transit.

vehicle_start_weight

Vehicle weight before loading.

vehicle_end_weight

Vehicle weight after unloading.

gross_weight

Total transported weight including packaging.

tare_weight

Empty vehicle weight.

net_weight

Net weight of material alone.

wood, ironbands, plastic, water, ice, fines, other, chips, packaging,
cardboard

Weight of non-material elements used for impurity deduction.