

Data Collection and Preprocessing Phase

Date	21 June 2025
Team ID	XXXXXX
Project Title	Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI
Maximum Marks	10 Marks

Data Exploration and Preprocessing Template

Identifies data sources, assesses quality issues like missing values and duplicates, and implements resolution plans to ensure accurate and reliable analysis.

Section	Description
Data Overview	Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023” is a dataset with 24 columns and 11,912 rows. The key columns are Entity (country names) and Year. It systematically records the production volumes of various food items across different countries over the specified period.
Data Cleaning	I filtered out every row that had a zero in any column. With almost 12,000 entries, deleting them doesn't change the dataset in any meaningful way.
Data Transformation	The dataset contains no errors or missing values, so there's no need for filtering, sorting, or any other data transformation.
Data Type Conversion	The dataset includes both whole numbers and decimals, so I converted the decimal values into whole numbers to keep the visualizations simple and clean to understand.
Column Splitting and Merging	The dataset is a single, well-defined table, so there’s no need to split or merge any columns.

Data Modeling	The dataset is just a single table, so there's no way to establish relationships between tables.
Save Processed Data	I've saved the cleaned and processed data so I can easily reuse it later.