

Data Collection and Preprocessing Phase

Date	25 -12 - 2025
Team ID	
Project Title	Global Food Production Analysis (1961–2023)
Maximum Marks	3 Marks

Data Quality Report Template

The Data Quality Report summarizes the data quality issues identified in the selected dataset and outlines their severity levels along with technical resolution plans. Addressing these issues ensures accuracy, consistency, and reliability of the dataset before analysis and visualization.

Data Source	Data Quality Issue	Severity	Resolution Plan
Global Food Production Dataset	Missing values for certain crops in specific years	Moderate	Identified missing values using Power Query and handled them by removing incomplete rows or replacing them with appropriate statistical measures where required.
Global Food Production Dataset	Inconsistent crop naming conventions	Low	Standardized crop names by applying text transformations and manual corrections in Power Query.

Global Food Production Dataset	Duplicate records for some year and region combinations	High	Removed duplicate entries using the “Remove Duplicates” feature in Power BI to ensure data accuracy.
Global Food Production Dataset	Incorrect data types for production values	Moderate	Converted production columns to numeric data types and validated values before calculations.
Global Food Production Dataset	Outliers in production values for certain crops	Low	Verified outliers by cross- checking and retained valid extreme values while removing erroneous entries.