

## Data Collection and Preprocessing Phase

Date	30 July 2025
Team ID	XXXXXX
Project Title	Global Food Production Trends and Analysis using Power BI
Maximum Marks	10 Marks

### Data Exploration and Preprocessing

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	The dataset contains global food production statistics for 226 countries from 1961 to 2021 across 22 major crops and commodities. It includes over 11,900 records with clean, numerical data ideal for trend analysis and Power BI visualizations.
Data Cleaning	Removed the rows with value as 0 in the columns such as Rice Production, Tea Production, etc.
Data Transformation	Use of Power Query for filtering, sorting, pivoting, and creating calculated columns was not required.
Data Type Conversion	Converted the datatype from Decimal number to Whole number.
Column Splitting and Merging	Split or merge columns was not needed.
Data Modeling	Defining relationships between tables and creating measures was not needed.
Save Processed Data	Saved the cleaned and processed data for future use.