

Data Collection and Preprocessing Phase

Date	29 July 2025
Team ID	xxxxxx
Project Title	Global Food Production Analysis
Maximum Marks	10 Marks

Data Exploration and Preprocessing

Section	Description
Data Overview	<ul style="list-style-type: none"> The dataset from FAO contains global food production data from 1961 to 2023. It covers different countries, crops, and production values. Currently the data has 11,000 rows.
Data Cleaning	<ul style="list-style-type: none"> Handled missing values and removed any blank or irrelevant rows. Duplicates were checked and cleaned. Kept “World” and “FAO” rows for global trend analysis.
Data Transformation	<ul style="list-style-type: none"> Used Power Query to unpivot year columns and restructure data. Filtered for only production-related elements and renamed columns for clarity. Added calculated columns where needed.
Data Type Conversion	<ul style="list-style-type: none"> Converted Year to whole number, Value to decimal, and ensured all text fields were in the correct format.
Column Splitting and Merging	<ul style="list-style-type: none"> Combined some fields temporarily for better DAX filtering
Data Modeling	<ul style="list-style-type: none"> Created DAX measures for totals, comparisons, and crop-wise analysis.

Save Processed Data	<ul style="list-style-type: none">• Cleaned data was saved inside the Power BI .pbix file. Backup versions were saved after each sprint phase.
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