Data Collection and Preprocessing Phase

Date	30 September 2025
Team ID	SWUID20250181744
Project Title	Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI
Maximum Marks	2 Marks

Data Collection Plan

Section	Description
Project Overview	The project "Global Food Production Trends and Analysis (1961–2023) Using Power BI" focuses on analyzing worldwide food production trends over six decades. It aims to identify patterns in crop production (e.g., rice, wheat, maize, fruits, tea, and coffee) to help ABC Company gain data-driven insights into agricultural performance and regional contributions. Power BI is used to visualize the data, enabling interactive exploration and strategic decision-making.
Data Collection Plan	The dataset used for this study was collected from Kaggle, an open-source data platform hosting reliable and curated datasets for research and analytics. The dataset titled "World Food Production" by Rafsun Ahmad provides comprehensive production information (in tonnes) for major food commodities from 1961 to 2023 across multiple countries and regions. The data was downloaded in CSV format and imported into Power BI Desktop for cleaning, transformation, and visualization.
Raw Data Sources Identified	The project relies on a single primary dataset World Food Production (1961–2023) obtained from Kaggle. The dataset includes columns such as Entity (country/region), Code, Year, and production quantities for major crops including rice, wheat, maize, tea, coffee, grapes, apples, avocados, bananas, and oranges. This dataset provides the foundation for all analyses and Power BI visualizations developed in this project.

Raw Data Sources

Source Name	Description	Location / URL	Format	Size	Access Permissions
World Food Production (1961–2023)	Contains annual global food production data for major crops and fruits, recorded in tonnes. Each record includes Entity (country/region), Code, Year, and production values for crops such as rice, wheat, maize, coffee, tea, apples, bananas, grapes, avocados, and oranges. This dataset forms the primary source for visualization and analysis in Power BI.	https://www.kaggle.com/datasets/rafsunahmad/world-food-production	CSV	2.18 MB	Public (Free Access)