Data Collection and Preprocessing Phase

Date	18 June 2025
Team ID	SWUID2024000xxxx
Project Title	Global Malnutrition Trends: A Power BI Analysis (1983-2019)
Maximum Marks	10 Marks

Data Exploration and Preprocessing Template

Section	Description
Data Overview	The project utilizes from Kaggle: malnutrition-estimates.csv for year-wise country-level data and country-wise-average.csv for summarized country-level indicators. These cover stunting, wasting, underweight, and overweight from 1983-2019.
Data Cleaning	Removed blank rows and null values using Power Query. Standardized inconsistent country names. Resolved duplicate entries by verifying each combination of country, year, gender and indicator.
Data Transformation	Performed filtering to focus on year 1983-2019 and relevant indicators. Created calculated columns for average prevalence and grouped regions. Sorted records by country and year for dashboard sequencing.
Data Type Conversion	Ensured numeric fields were in fixed decimal format. Categorical fields like gender and income group were corrected to proper text data types.
Column Splitting and Merging	Splitting the data where fields if there is need for it.
Data Modeling	Established relationships between the two datasets based on country names. Defined one to my relationship for indicator values and created DAX measures for average and trends.
Save Processed Data	Saved the cleaned and transformed dataset into Power BI (.pbix) file and exported intermediate versions to excel for backup.