

Global Malnutrition Trends: A Power BI Analysis (1983-2019)

Data Collection and Pre-processing Phase

Date	10-10-2025
Project Name	Global Malnutrition Trends: A Power BI Analysis (1983-2019)

3.3 Data Exploration and Preprocessing Report:

To explore, clean, and preprocess global malnutrition data to ensure data accuracy, consistency, and readiness for analysis in Power BI.

Section	Description
Data Overview	Two datasets were used: malnutrition-estimates.csv (country-wise malnutrition estimates) and country-wise-average.csv (aggregated averages). These enable global and country-level analysis of malnutrition trends.
Data Cleaning	<ul style="list-style-type: none">- Removed duplicate rows using Power Query.- Corrected errors such as inconsistent wrong data types.
Data Transformation	<ul style="list-style-type: none">- Filtered columns by changing numerical values into fixed decimal numbers
Data Modeling	Established a one-to-many relationship between country-wise-average and malnutrition-estimates. Created DAX measures like Average Malnutrition %, Yearly Change %, and Global Average. Added a Date Table for time intelligence.
Save Processed Data	Loaded cleaned data into Power BI. Saved processed datasets as .xlsx and .pbix for reuse and backup. Maintained versioned files for reproducibility.

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Conclusion	The preprocessing ensured that all data is clean, consistent, and ready for analysis. The datasets are now optimized for Power BI dashboards to visualize global malnutrition trends effectively.
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