

Data Collection and Preprocessing Phase

Date	01 October
Team ID	SWUID20250181698
Project Title	Global Inflation Dynamics (1980-2024): A Comparative Time-Series Analysis
Maximum Marks	3 Marks

Data Quality Report Template

The Data Quality Report Template will summarize data quality issues from the selected source, including severity levels and resolution plans. It will aid in systematically identifying and rectifying data discrepancies.

Data Source	Data Quality Issue	Severity	Resolution Plan
global_inflation_data.csv	Structural Issue: Wide Format (Years are columns, not rows).	High	Transformation: Use Power Query's Unpivot Columns function to convert years (1980-2024) into a single Year column and a single Inflation_Rate column
global_inflation_data.csv	Missing Values (NaNs): Numerous null values, particularly for earlier years or small countries.	Moderate	Filtering: Use Power Query to Remove Empty rows in the new Inflation_Rate column. Additionally, filter out countries with less than 50% of data points for reliability.

global_inflation_data.csv	Data Type Mismatch: Year columns are imported as Text instead of a number, and inflation rates need to be treated as a decimal number.	Low	Type Conversion: Explicitly convert the unpivoted Year column to Whole Number and the Inflation_Rate column to Decimal Number.
global_inflation_data.csv	Outliers / Hyperinflation: Extreme values (e.g., Venezuela's rates reaching thousands of percent) that would skew the average.	Low	Mitigation via DAX: Do not use the AVERAGE function in Power BI. Instead, create a DAX Measure using the MEDIAN function for all group aggregations to ensure the central tendency is robust.