

Data Collection and Preprocessing Phase

Date	01 October 2025
Skillwallet ID	SWUID20250200484
Project Title	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
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	Lack of Data Standardization (Inflation rates reported in inconsistent units or scales across countries).	Moderate	Power Query Transformation & DAX: The raw Inflation Rate column was converted to a standardized Decimal Number . A Calculated Column (AdjustedInflationRate) was created in Power Query to ensure all rates are uniformly comparable.
Global Inflation Data	Missing Historical Values (Data gaps or Null values in early historical records,	Moderate	Data Cleaning Strategy: Null rows were deliberately NOT deleted. They were retained unmodified to ensure the Time-Series Charts accurately display

	reflecting the "Limited Historical Data" challenge).		the historical data unavailability, preventing misleading analysis.
Global Inflation Data & Continent Mapping	Geographical Data Discrepancy (The main inflation table lacked the Region/Continent field required for interdependency analysis).	Low	Data Modeling & Merging: The separate Continent Mapping table was joined (merged) with the main fact table using the Country_name field as the key. This enriched the fact table, enabling Continent-wise Analysis .
All Datasets	Inconsistent Data Types (e.g., Year being treated as Text, or rates not being a numerical type).	Low	Data Type Conversion: Manually rectified in Power Query. Year was changed to Whole Number , and all inflation metrics were set to Decimal Number to ensure the reliability and accuracy of DAX Measures and aggregations.