Data Collection and Preprocessing Phase

Date	20 June 2025
Skillwallet ID	SWUID20250170824
Project Title	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
Maximum Marks	3 Marks

Data Quality Report Template

Data Source	Data Quality Issue	Severity	Resolution Plan
global_inflation_data.csv	Inflation data was spread across multiple year columns (wide format)	Moderate	Unpivoted year columns in Power Query to convert the dataset into long format: Country, Year, InflationRate.
global_inflation_data.csv	No unique row identifier	Low	Added an Index column in Power Query to uniquely identify each row post-transformation.
global_inflation_data.csv	Some columns were redundant or incorrectly named	Low	Removed unnecessary columns, cleaned and renamed column headers consistently (e.g., Country_name → CountryName).

global_inflation_data.csv	Adjusted Inflation Rate was missing	Low	Created a new column AdjustedInflationRate = InflationRate * 0.01 using Power BI calculated column.
global_inflation_data.csv	Inflation category classification was missing	Moderate	Created a DAX-calculated column InflationRateCategory based on value thresholds (Low < 2, Moderate < 5, else High).
continents.csv	Extra columns unrelated to analysis present	Low	Removed all extra columns, retained only CountryName and Region for clean joining.
continents.csv	Mismatch in country name spellings across datasets	Moderate	Standardized country names in both files within Power Query to enable accurate mapping and merging.
continents.csv	No relationship with main dataset	Low	Performed a left join in Power BI using CountryName as key to enrich dataset with regional context.