Data Cleaning Steps – Power BI (Power Query)

1. Dataset Import
Imported the raw Disaster Declaration Summaries dataset into Power BI Desktop. Opened Power Query Editor to perform all data cleaning operations before loading the data into the model.

2. Data Type Validation and Correction
Verified the data types of all columns in Power Query Editor. Ensured each column accurately represented its data. Incorrect or automatically assigned data types were manually corrected to prevent calculation and visualization errors.

3. Column Name Standardization
Renamed column headers to ensure clarity, readability, and consistency. Converted column names into Title Case for professional documentation and improved usability.

4. Replace Values
Standardized inconsistent or incorrect values by replacing them with uniform entries to improve data accuracy and consistency for analysis.

5. Removed Columns
Eliminated duplicate and unnecessary columns that were not required for data visualization, improving performance and reducing clutter.

6. Text Data Standardization
Standardized categorical text fields by converting values to uppercase to ensure uniform representation and better grouping during analysis.

7. Removing NULL Values
Removed NULL values to enhance the quality and effectiveness of data visualization and analysis.

8. Text Data Cleaning
Trimmed leading and trailing spaces from text fields to maintain data consistency and prevent mismatches.

9. Final Data Validation
Rechecked row counts before and after cleaning to ensure no unintended data loss. Reviewed sample records to confirm data accuracy and consistency.

10. Output
The final cleaned dataset is analysis-ready and suitable for visualization and reporting in Power BI.