**WEEK 1 ASSIGNMENT**

**EDUNETS**

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**Project Name:** Sustainable Supply Chain Performance Dashboard in Power BI

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**Task: Transform the Given Dataset into Multiple Tables**

**Steps to Perform in Power BI Desktop**

1. **Load the Dataset**
   * Click on **“Get Data”** and browse to the location where the dataset file is stored.
   * Select the file and load the data into Power BI Desktop.
2. **Understand the Power BI Desktop Interface**  
   The interface consists of four primary views:
   * **Report View**: Used to create visualizations and reports.
   * **Table View**: Displays data in a tabular format.
   * **Model View**: Shows relationships between tables.
   * **DAX Query View**: Used for writing and evaluating DAX queries.
3. **Transform the Data**
   * Click on the **Home** tab in the navbar.
   * Select **“Transform Data”** to open the Power Query Editor.
4. **Duplicate and Rename Tables**
   * On the left-hand side, locate the loaded table containing the dataset.
   * Right-click on the table and choose **Duplicate Table**.
   * Rename each duplicated table as follows:
     + **Inventory Table**
     + **Manufacturing Table**
     + **Supplier Table**
     + **Supply Chain Table**
5. **Clean and Organize Data for Each Table**
   * For each table, remove unnecessary columns and ensure only the required columns remain.

**Table Structures and Required Columns**

**1. Inventory Table**

* Product Type
* SKU
* Availability
* Number of Products Sold
* Customer Demographics
* Stock Levels
* Lead Times
* Order Quantities
* Revenue Generated

**2. Manufacturing Table**

* Product Type
* SKU
* Production Volumes
* Manufacturing Lead Time
* Manufacturing Costs
* Inspection Results
* Defect Rates

**3. Supplier Table**

* Supplier Name
* Location
* Lead Time
* Transportation Modes
* Routes

**4. Supply Chain Table**

* Product Type
* SKU
* Price
* Availability
* Number of Products Sold
* Revenue Generated
* Customer Demographics
* Stock Levels
* Lead Times
* Order Quantities
* Shipping Times
* Shipping Carriers
* Shipping Costs
* Supplier Name
* Location
* Transportation Modes
* Routes