**Week 1 summary**

Learned about Power BI and some of the introductory steps to make and understand tables.

**What is Power BI?**

Power BI is a business analytics tool developed by Microsoft that enables users to visualize and share insights from their data. It provides interactive dashboards, reports, and a powerful query engine to transform raw data into meaningful insights.

**Steps Followed Here**

1. **Opened Power BI:**
   * Launched Power BI Desktop by clicking the Power BI icon and opening a new blank file.
   * Navigated to the main Power BI Desktop screen.
2. **Imported Data:**
   * Used the "Get Data" option to import the provided dataset: "Sustainable Supply Chain Performance.csv."
   * Opted to load the dataset directly because the data was clean, skipping the "Transform Data" option initially.
3. **Data Transformation:**
   * Clicked on "Transform Data," which opened the Power Query Editor.
   * Performed the following actions to prepare and organize the data:
     + **Duplicated Columns:** Created copies of specific columns from the main table for further transformation.
     + **Renamed Columns and Tables:** Adjusted the naming of columns and tables to make the dataset more user-friendly and aligned with the analysis requirements.
   * Created four tables by duplicating and filtering the main table:
     + **Inventory Table**
     + **Manufacturing Table**
     + **Supplier Table**
     + **Supply Chain Table**
4. **Created Tables:**
   * Built four tables in total, each focusing on a specific aspect of the dataset.
5. **Inventory Table**

Columns included are product type, SKU, availability, number of products sold, customer demographics, stock levels, lead times, order quantities, lead time, and revenue generated.

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1. **Manufacturing Table**

Columns included are product type, SKU, production volumes, manufacturing lead time, manufacturing costs, inspection results, and defect rates.

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1. **Supplier Table**

Columns included are supplier name, location, lead time, transportation modes, and routes

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1. **Supply Chain Table**

Columns included are 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, lead time, transportation modes, and routes.

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