**RETAIL INVENTORY MANAGEMENT ANALYSIS**

**1. Project Title**

**Retail Inventory Management Dashboard**

**2. Objective**

The goal of this project is to analyze and monitor retail inventory, helping businesses track stock levels, sales trends, and key performance indicators (KPIs) for effective inventory management. The interactive Power BI dashboard provides insights into stock distribution, annual revenue, reorder needs, and sales trends.

**3. Data Source**

* The dataset used for this project was sourced from **Excel** files.
* Data includes SKU details, stock levels, demand categories, and sales records.

**4. Data Transformation & Processing**

* Power Query was used for **data cleaning and transformation**.
* **DAX (Data Analysis Expressions)** was applied for calculations and creating key performance indicators (KPIs).

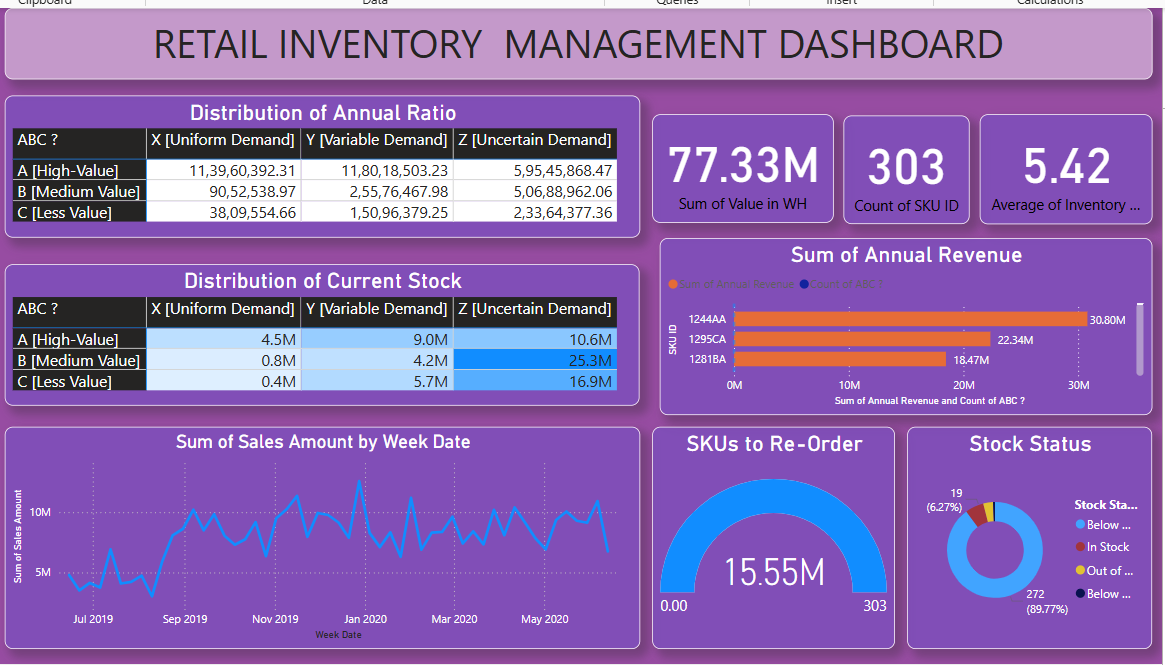
**5. Key KPIs & Metrics Used**

* **Sum of Value in Warehouse (WH)** – Total inventory value across SKUs.
* **Count of SKU IDs** – The total number of unique SKUs.
* **Average Inventory** – Average inventory levels to track stock availability.
* **Annual Revenue by SKU** – Revenue contribution of each SKU.
* **SKUs to Reorder** – Highlights products that need restocking based on inventory levels.
* **Stock Status Distribution** – Categorization of stock as **Below Threshold, In Stock, and Out of Stock**.
* **Sales Trends by Week Date** – Analysis of sales performance over time.

**6. Dashboard Design & Features**

* **Visuals Used:**
  + **Tables** for inventory distribution (Annual Ratio & Current Stock).
  + **Cards** for KPI summaries.
  + **Bar Charts** for annual revenue analysis.
  + **Line Charts** for sales trends over time.
  + **Donut Charts** for stock status classification.
  + **Gauge Chart** for SKU reorder insights.

**POWER BI DASHBOARD:**

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