# **Supermarket Sales Dashboard - Overview**

#### **Introduction:**

This project presents an interactive **Supermarket Sales Dashboard** built using **Power BI**.

The dashboard provides insights into sales trends, customer behavior, branch performance, and product profitability.

The dataset was **cleaned**, **processed**, **and analyzed** before visualizing **key performance indicators**.

## **Project Goals**

- 1. Identify sales trends and revenue distribution across different branches.
- 2. Analyze **customer purchase behavior** based on payment methods and product preferences.
- 3. Evaluate branch performance and profitability.
- 4. Provide a **drill-through analysis** for detailed insights on individual branches.
- 5. Optimize **operational decision-making** using interactive data visualizations.

## **Key Features of the Dashboard**

- 1. Total Revenue & Profit Analysis Displays key financial metrics.
- 2. Sales Trends Over Time Tracks sales growth across months and years.
- 3. **Branch Performance Comparison** Compares revenue, profit, and customer ratings per branch.
- 4. **Product Line Performance** Identifies best-selling and low-performing product lines.
- 5. **Payment Method Distribution** Analyzes customer preferences for payment modes.
- 6. **Customer Rating Analysis** Correlates customer satisfaction with sales and revenue.

7. **Drill-Through Insights** – Allows detailed exploration of each branch's performance.

# **Technologies Used**

- **Power BI** For data visualization and dashboard creation.
- Python (Pandas, NumPy) For data preprocessing.
- **Power Query** For data transformation.
- DAX (Data Analysis Expressions) For creating custom measures.

### Conclusion

This project showcases the importance of data-driven decision-making in retail analytics.

By leveraging **Power BI's interactive capabilities**, businesses can gain **actionable insights** into **sales performance and customer behavior**. The dashboard serves as a **comprehensive tool for monitoring key supermarket metrics**.