# Retail Business Performance & Profitability Analysis

Elevate Labs internship project phase

### Introduction

This report summarizes the analysis of retail business performance and profitability. The project aims to identify key factors influencing profitability and provide actionable insights for improving business performance. It's designed to highlight methodologies and tools utilized to provide a comprehensive overview. This report is tailored for a data analyst audience and details the steps involved in building the project, including data collection, cleaning, analysis, and visualization.

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### **Abstract**

This project aims to evaluate and improve the profitability of retail operations by analyzing sales data, cost data, and market trends. The analysis focuses on identifying top-performing products, customer segments, and geographical regions. By understanding these patterns, businesses can optimize inventory management, marketing strategies, and pricing models. The project also explores the impact of various external factors, such as seasonality and economic indicators, on retail performance. The findings are presented in a clear and concise manner, with actionable recommendations for enhancing profitability and efficiency.

## **Tools Used**

The following tools were utilized in the development and implementation of this project:

- Microsoft Excel: For raw data and query output export.
- MySQL Workbench: Database management & guery execution
- **Power-bi:** Used to create interactive dashboards and visually appealing reports to communicate findings effectively.

# **Steps Involved in Building the Project**

The project was developed following a structured methodology, encompassing the following key steps:

- 1. **Imported:** Super Store dataset (CSV → MySQL).
- 2. Create tables: With proper schema (DDL/DML).
- 3. Data Cleaning: Cleaned and preprocessed dataset (handled nulls, formats).
- 4. Wrote SQL queries for analysis:
  - Top/Bottom products
  - Customer segments
  - Category/Sub-category insights
  - Region-wise sales trends
  - Monthly/Seasonal sales analysis
- 5. **Exported:** Query results to CSV files for reporting.
- 6. **Visualization:** Presenting the findings using charts, graphs, and interactive dashboards to facilitate understanding and decision-making.
- 7. **Reporting:** Documenting the entire process and findings in a comprehensive report, including actionable recommendations.

# **Key Insights / Results**

- Top products: Phones & Chairs contributed highest sales.
- Bottom products: Fasteners & Labels showed lowest demand.
- Customer Segment: Consumer segment generated maximum revenue.
- Region-wise: West & East performed better than South.
- Seasonality: Sales peak observed in November–December (holiday season).

### **Conclusion**

The analysis highlighted critical business insights, helping to understand customer behavior and regional patterns. The project demonstrates how SQL can be used effectively for data-driven decision-making. Future work may include visualization dashboards in Power BI for more interactive insights.