**Project 1 Sales Analysis for Kk Supermarket**

**🧠 Step 1: Understand the Dataset**

**Columns I have:**

* Date
* Product
* Quantity
* Unit Price
* Store Location
* Cashier
* Total Price
* Original Price

**📌 Step 2: Key Project Questions You Can Answer**

**🔽 Basic (Descriptive Analysis):**

1. **What is the total sales revenue?**
2. **Which product had the highest total sales?**
3. **Which store location sold the most items overall?**
4. **What was the average unit price of products sold?**
5. **Who are the top 3 performing cashiers by total sales?**
6. **How many transactions happened in each month?**

**📈 Intermediate (Trends & Patterns):**

1. **What is the top-selling products by location?**
2. **Is there any sales seasonality across months?**
3. **Which days of the week have the highest sales?**
4. **Which product is the most consistent in sales volume?**
5. **Are there any products mostly sold in one location?**

**🔍 Advanced (Insights & Visuals):**

1. **Create a dashboard showing:**

* Total sales
* Sales by location
* Sales over time (line chart)
* Product performance (bar chart)
* Cashier leaderboard

1. **Build a heatmap of sales across weekdays and product types**
2. **Forecast next month's sales using moving average or linear trend**

**🔧 Step 3: Tools to Use**

* **Excel** (for pivot tables, charts, basic dashboard)
* **Power BI** (for an interactive dashboard)
* **Python (Pandas + Matplotlib/Seaborn)** for deeper analysis