## **Sample prompts for data analysis with varying effectiveness**

**Dataset:** Sales data for an e-commerce store, containing columns for product ID, category, price, quantity sold, and date of sale.

### **Task: Summarize the dataset**

**Prompt 1 (Low effectiveness):**

Tell me about this data.

**Prompt 2 (Medium effectiveness):**

Summarize the sales data, including total sales, average order value, and best-selling categories.

**Prompt 3 (High effectiveness):**

Provide a comprehensive summary of the e-commerce sales data, including:

* Total sales revenue
* Average order value
* Top 3 best-selling categories by quantity sold
* Sales trend over time (monthly or quarterly, depending on data granularity) Present the summary in a clear and concise format, suitable for a non-technical audience.

### **Task: Identify trends**

**Prompt 1 (Low effectiveness):**

What's interesting here?

**Prompt 2 (Medium effectiveness):**

Identify any significant trends or patterns in the sales data.

**Prompt 3 (High effectiveness):**

Analyze the sales data to uncover key trends and patterns, focusing on:

* Changes in sales volume over time (e.g., seasonality, growth or decline)
* Correlation between product categories and sales performance
* Impact of price on sales volume If possible, visualize the identified trends using appropriate charts or graphs.

### **Task: Create visualizations**

**Prompt 1 (Low effectiveness):**

Make a chart.

**Prompt 2 (Medium effectiveness):**

Visualize the sales data in a line chart.

**Prompt 3 (High effectiveness):**

Create the following visualizations based on the sales data:

1. A line chart showing the trend of total sales revenue over time.
2. A bar chart comparing the sales performance (total sales) of different product categories.
3. A scatter plot exploring the relationship between price and quantity sold. Ensure the visualizations are clear, labeled appropriately, and include titles.