Crafting a Comprehensive Sales Dashboard

Objective: Develop a detailed dashboard to examine sales data, monitor key performance indicators (KPIs), and offer actionable suggestions to enhance sales outcomes.

Requirements:

1. Advanced Metrics and Calculations:

- Sales Growth Rate: Calculate month-over-month (MoM) and year-overyear (YoY) sales growth rates.
- Average Order Size: Compute the average order size (Total Sales/Quantity Sold).
- o **Profit Calculation:** Add a column for Profit.
- Sales by Time of Day: Analyze sales trends by time (morning, afternoon, evening, night) based on the Time column.

2. Dashboard Elements:

- **KPIs Summary Section:** Include the following metrics as KPIs:
 - Total Sales
 - Total Quantity Sold
 - Total Profit
 - Average Order Size
 - Sales Growth Rate
 - Return Rate

Top Performers:

■ Top 2 products by total sales

- Top 2 regions by total sales
- Top 2 customers by total sales
- Time-Based Sales Analysis:
 - Sales by day of the week (to determine peak days)
 - Sales by time of day (morning, afternoon, evening, night)
 - Sales Rep Performance: Ranked list or chart showing sales reps by their total sales and quantity sold.

3. Interactive Filtering and Slicers:

- Slicers: Add slicers for:
 - Product Category
 - Region
 - Sales Rep
 - Date (Year/Month)
 - Time of Day (Morning, Afternoon, Evening, Night)
- Dynamic Filtering: Allow the dashboard to update dynamically when filtered by any slicer.

4. Data Visualization:

- Monthly and Yearly Sales Trends: Line or area chart showing monthly and yearly sales trends.
- Hourly Sales Distribution: A heatmap or line chart showing sales distribution by hour of day.
- Sales by Product Category: Pie or donut chart displaying the share of total sales for each product category.
- Sales vs. Returns: A bar chart comparing total sales and returns across regions.

o **Profit Margin Analysis:** A line chart showing profit margins over time.

5. Dashboard Insights and Analysis:

- Actionable Insights: Write 3 observations based on the data, like identifying peak sales hours, best-performing products, or sales spikes by day.
- Recommendations: Provide 2 recommendations for sales improvement, such as increasing marketing during peak hours, focusing on high-profit products, or targeting specific customer segments.