**Orders Dashboard Assignment   
(Note:** The Dashboard must be created only in **Microsoft Power BI**.)

**Objective:**

Use the orders datasets and develop an interactive dashboard in Power BI answering below business

questions.

**Note***:*

a. Dashboard design, choice of visuals and visual storytelling are essential parts of the

Assignment (You can visit Scatterpie’s official website for the samples under solutions section of the website or you can refer the dashboards attached in the Reference Dashboards folder of the ZIP File).

b. Create a single-tab dashboard or multiple-tab dashboard depending on your storytelling

approach.

c. All data modelling, data join, merge etc. must be done in Power BI.

d. In Power Query, you will need to perform various data transformations such as changing data types, appending tables, and more.

e. Use the data available in Orders Data folder for this assignment.

f. Use all the Excel files available in the folder Orders Data for creating the Power BI dashboard.  
g. Do not manipulate the Excel data; all transformations and calculations must be done in Power BI only.

h. Students who solve the **bonus questions** will receive additional bonus points, with the exact points determined by Evaluator based on the quality of each student's answer.

**Business questions:**

1. Visualize previous year comparison along with percentage change and indicators with color coding for Total Profit, Total Sales and Total Number of Orders. **(10 Points)**
2. Create a calculated column based on the Sales column: if May Sales is greater than or equal to 1000, categorize it as ‘High Value Sales’; otherwise, categorize it as ‘Low Value Sales’. Then, create any visual in Power BI using this calculated column **(4 Points)**.
3. Identify Top 5 Customers who have returned products most**. (6 Points)**
4. Identify Top 5 returned products along with their return rate**. (6 Points)**
5. What is the minimum % of customers contributing to 50% of Total Profit? **(8 Points)**
6. What is the % of profitable orders from each state? **(8 Points)**
7. What are the top N cities by Second Class Shipment mode? Show the top N filter on the

dashboard. *(Note – Use parameters to allow dynamic N selection)* ***(10 Points)***

1. Identify monthly percentage of sales growth rate for each region for selected year**. (8 Points)**
2. Create a custom tooltip of your choice and specify on the visual that it includes a custom tooltip. **(4 Points)**
3. Show the percentage contribution to total sales by each region and Top 10 Cities(By using Field Parameter) **(6 Points)**
4. Compare quarterly sales for different years (Use Date field) **(4 Points)**

**Slicers: (6 Points)**

1. Year Selector

*2.* Category *(Default = Furniture)*

3. Sub-Category

4. Region *(Default = West)*

5. State

6. Segment

7. Region (This slicer should interact with only one type of visuals on the dashboard, specifically the Top N visuals.)

Add buttons for default selections and clear selections.

**Dashboard Design & Storytelling (20 Points)**(Layout & Visual Hierarchy, Choice of Visuals, Design & Formatting, Interactivity, Storytelling & Insights)

**Bonus Questions:**   
 **Note1: The first three questions are based on the *Orders dataset*, while the fourth question uses the  
 *Student\_details* dataset.**

1. Create a line chart to display sales for the last 6 months, where the 6-month period is determined by the selection in the Month-Year slicer. For example, if ‘July 2025’ is selected, the chart should show sales from Feb 2025 to July 2025. If the slicer is changed to ‘June 2025’, the chart should update to show sales from Jan 2025 to June 2025.
2. Visualize daily trend of sales and identify outliers on it. Which Subcategory do they fall under?

(Note –Use STDEV and Mean method to calculate Outliers and keep multiplier at 3 as default).

1. Which product pairs are often bought together?
2. You are given a separate Excel sheet/table in zip file with two columns: **Student Name** and **Subject**. Each row lists a student and a comma-separated list of subjects. Transform the table (**Student\_details**) so that each **student–subject** appears as a separate row. The final output should look like:

   
You may use **Power Query** or **DAX** to achieve this.