Practice with Time Series and Aggregation in Tableau

Objective: Today, we will apply the concepts of time series analysis and data aggregation using Tableau, as covered in Section 3 of our course on Udemy. By utilizing the provided Superstore dataset, you will demonstrate your understanding of these concepts through practical application, resulting in a meaningful visualization that adheres to the topics discussed in this section.

Instructions:

1. **Review of Learning Materials:**
    - Before beginning the exercise, ensure that you have completed all the lectures in Section 3: Time Series, Aggregation, and Filters on Udemy. Pay particular attention to lectures on working with time series and understanding aggregation.
2. **Dataset Exploration:**
    - **Dataset Provided:** The Superstore dataset will be used for this exercise. Familiarize yourself with the data, focusing on the date fields and the possibilities for aggregation.
3. **Creating Visualizations:**
    - Using Tableau, you are tasked to create visualizations that incorporate the following elements:
        - **Time Series Analysis:** Create a time series chart to analyze sales trends over time. Consider how different time granularities (such as monthly or quarterly) reveal different patterns.
        - **Aggregation:** Utilize aggregation functions to display summarized data, such as total sales or average profit.
        - **Filters:** Apply filters to your visualizations to focus on specific time periods, categories, or other relevant segments of the data.
4. **Documentation and Insight:**
    - Alongside your visualizations, provide a brief explanation of:
        - The reasoning behind your choice of time granularity and aggregation.
        - The insights or patterns revealed by your analysis.
        - How the applied filters contribute to the analysis.
5. **Submission:**
    - Compile your Tableau workbook, including all the visualizations, and a separate document for your explanations.
    - Submit your completed work through the course's learning management system (LMS) by the deadline indicated.