For this project, you will be working with a real-world business dataset to gain hands-on experience with the data analysis process. The goal is to practice key skills like data collection, cleaning, exploration, visualization, statistical analysis and insightful reporting.

You will be awarded points for completing the following core tasks:

1. Data Collection and Exploration (6 points) - You need to find and collect a real-world dataset relevant to business and analytics. <https://od.data.gov.sa/ar/> is a good start. **The dataset should have enough data points and variables for analysis.** You then need to perform initial data exploration by examining the variables and identifying any patterns in the data.
2. Data Cleaning and Preparation (3 points) - You need to clean and reformat the dataset to prepare it for analysis. This involves dealing with issues like missing values, outliers, and data types. You must document the cleaning process in case others need to replicate it.
3. Data Visualization (5 points) - Using an appropriate tool like Excel, Power BI, Tableau or Python libraries, you need to create meaningful visualizations that tell a story about the data and help in analysis. Visualizations should include charts like bar charts, line graphs or histograms. Create at least 3 meaningful charts.
4. Statistical Analysis (3 points) - You need to perform relevant statistical tests or models like correlation, regression or clustering on the data to gain insights. Document and explain the analytical techniques used and any significant findings. (We studied Logistic regression and k-nearest neighbour. Use what you see applicable)
5. Insights and Reporting (3 points) - In a report format, you need to summarize key findings from your analysis and visualization. Identify insights gained and discuss potential business uses or recommendations based on these insights. Visualize the main takeaways.