

Pandas: **Assessment**

1. Load the "sales_data.csv" dataset and handle any missing data using appropriate techniques (e.g., dropping rows/columns, imputation). Submit the cleaned DataFrame.
2. Group the sales data by product category and customer segment, and calculate the total sales and average discount for each group. Submit the grouped and aggregated DataFrame.
3. Merge the sales data with a separate product details DataFrame (you can create a dummy product details DataFrame) based on the product ID. Submit the merged DataFrame.
4. Analyze the sales data over time by resampling the data to a monthly frequency and calculating rolling averages for sales and discounts. Submit the resampled and rolled DataFrame.
5. Perform any additional exploratory data analysis or data manipulation tasks on the sales data using Pandas, and submit your code and findings