Data Analytics LAB

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1. Apply functions like SUM, AVERAGE, MAX, MIN on sample data files using excel for data analysis.
2. Apply conditional formatting techniques to highlight specific data points in a dataset.
3. Utilize functions like INDEX, MATCH, XLOOKUP, VLOOKUP for searching and retrieving relevant data from a dataset.
4. Use COUNTIFS and OFFSET functions to count occurrences of specific criteria within a dataset and to extract data based on specified ranges.
5. Create pivot tables to summarize and analyze large datasets efficiently.
6. Perform what-if analysis by utilizing tools like Goal Seek and Scenario Manager to understand the impact of different variables on outcomes.
7. Implement data validation rules to ensure data integrity and accuracy within a dataset.
8. Analyze probabilities and apply statistical concepts to interpret data patterns and trends.
9. Conduct correlation and regression analysis to identify relationships between variables in a dataset.
10. Generate comprehensive reports by integrating various data analysis techniques and visualizations.
11. Create interactive dashboards to present key insights and metrics effectively for decision-making purposes in real-time.