

Assignment 3 (DS-660) (10 points)

1. The Excel file Traveler contains the months of a year and the number of travelers that arrive by flight in the morning (AM) and the evening (PM). Prepare a line chart showing the number of AM and PM travelers for each month. **(1 Point)**
2. The Excel file Expenditure shows the spending of a country on various sports during a particular year. Create a pie chart and determine the percentage of total spending on tennis. **(1 Point)**
3. In the Excel file Banking Data, apply the following data visualization tools: **(1 Point)**
 - a. Use data bars to visualize the relative values of Median Home Value.
 - b. Use an icon set to show high, medium, and low bank balances, where high is above \$30,000, low is below \$10,000, and medium is anywhere in between.
4. In the Sales Transactions database, use Excel's filtering capability to extract all orders that used PayPal, all orders under \$100, and all orders that were over \$100 and used a credit card. **(1 Point)**
5. The Excel sheet Engagement contains the number of rings sold each day of the week in a jewelry store chain in different cities across India. Use sparklines to summarize the data. **(1 Point)**
6. Use the Histogram tool to construct a frequency distribution of lunch sales amounts in the Restaurant Sales database. **(1 Point)**
7. Construct frequency distributions and histograms using the Excel Histogram tool for the Gross Sales and Gross Profit data in the Excel file Sales Data. Also compute the cumulative relative frequency of the same. **(1 Point)**
8. Find the 20th and 80th percentiles of home prices in the Excel file Home Market Value. **(1 Point)**
9. Find the 10th and 90th percentiles and 1st, 2nd, and 3rd quartiles for the combined amounts of checking and savings accounts in the Excel file Credit Risk Data. **(1 Point)**
10. Use PivotTables to find the number of loans by different purposes, marital status, and credit risk in the Excel file Credit Risk Data. Illustrate the results on a PivotChart. **(1 Point)**