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### Module Two Assignment Guidelines and Rubric

### MAT 240 Module Two Assignment Guidelines and Rubric

#### Scenario

Smart businesses in all industries use data to provide an intuitive analysis of how they can get a competitive advantage. The real esta home prices, as cost of housing is currently the largest expense for most families. Additionally, in order to help new homeowners and professionals need to go beyond showing property inventory. They need to be well versed in the relationship between price, square that can help predict the business environment and provide the best advice to their clients.

### Prompt

You have been recently hired as a junior analyst by D.M. Pan Real Estate Company. The sales team has tasked you with preparing a r price of properties and their size in square feet. You have been provided with a <u>Real Estate Data Spreadsheet</u> spreadsheet that incluhas asked you to select a region, complete an initial analysis, and provide the report to the team.

**Note:** In the report you prepare for the sales team, the response variable (y) should be the listing price and the predictor variable (x) : Specifically you must address the following rubric criteria, using the <u>Module Two Assignment Template</u>:

- Generate a Representative Sample of the Data
  - Select a region and generate a simple random sample of 30 from the data.
  - Report the mean, median, and standard deviation of the listing price and the square foot variables.

#### Analyze Your Sample

- Discuss how the regional sample created is or is not reflective of the national market.
  - Compare and contrast your sample with the population using the <u>National Summary Statistics and Graphs Real Est</u>.
- Explain how you have made sure that the sample is random.
  - Explain your methods to get a truly random sample.

#### Generate Scatterplot

• Create a scatterplot of the x and y variables noted above. Include a trend line and the regression equation. Label the axes

#### Observe paπerns

- Answer the following questions based on the scatterplot:
  - Define *x* and *y*. Which variable is useful for making predictions?
  - Is there an association between x and y? Describe the association you see in the scatter plot.
  - What do you see as the shape (linear or nonlinear)?
  - If you had a 1,800 square foot house, based on the regression equation in the graph, what price would you choose
  - Do you see any potential outliers in the scatterplot?
    - Why do you think the outliers appeared in the scatterplot you generated?
    - What do they represent?

You can use the following tutorial that is specifically about this assignment. Make sure to check the assignment prompt for specific n footage. The video may use different national statistics or solve for different square footage values.

• MAT-240 Module 2 Assignment

You can also use the following tutorials for support as you develop the report:

- Load the Analysis ToolPak in Excel
- Downloading Office 365 Programs PDF
- Random Sampling in Excel PDF
- <u>Scatterplots in Excel PDF</u>
- Descriptive Statistics in Excel PDF

#### What to Submit

Submit your completed Module Two Assignment Template as a Word document that includes your response, supporting charts, and

Criteria	Exemplary	Proficient	Needs Improvement
Generate a Representative Sample of the Data	N/A	Includes a random sample of 30 from a region and descriptive statistics for the sample (100%)	Shows progress toward proficiency, but with errors o omissions; areas for improvement may include a sample that is not truly randc or has incorrect descriptive statistics (55%)
Analyze Your Sample	Exceeds proficiency in an exceptionally clear manner (100%)	Discusses how the regional sample created is or is not reflective of the national market and explains how the sample is random (85%)	Shows progress toward proficiency, but with errors o omissions; areas for improvement may include inaccurate descriptions of the extent to which the sample is

### Module Two Assignment Rubric

			reflective of the population a random (55%)
Generate Scatterplot	Exceeds proficiency in an exceptionally clear manner (100%)	Creates a scatterplot of the x and y variables including a trend line and the regression equation (85%)	Shows progress toward proficiency, but with errors o omissions; areas for improvement may include inaccuracies within the scatterplot or definitions of x and y (55%)
Observe Patterns	Exceeds proficiency in an exceptionally clear, insightful, or sophisticated manner (100%)	Defines x and y, provides descriptions of association and shape, makes cost projections based on the regression equation and discusses outliers (85%)	Shows progress toward proficiency, but with errors o omissions; areas for improvement may include definitions of x and y, inaccuracies in descriptions o association or shape, inaccuracies in cost projectio or discussion of outliers (55%
Articulation of Response	Exceeds proficiency in an exceptionally clear, insightful, sophisticated, or creative manner (100%)	Clearly conveys meaning with correct grammar, sentence structure, and spelling, demonstrating an understanding of audience and purpose (85%)	Shows progress toward proficiency, but with errors ir grammar, sentence structure, and spelling, negatively impacting readability (55%)





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