

Exploratory Data Analysis

TOTAL POINTS 7

1. What task does the method **value_counts** perform?

1 point

- ☐ Returns summary statistics
- ☒ Returns counts of unique values
- ☐ Returns the first five columns of a dataframe

2. What does the vertical axis in a scatter plot represent?

1 point

- ☒ Independent variable
- ☐ Dependent variable

3. If we have 10 columns and 100 samples, how large is the output of **df.corr()**?

1 point

- ☐ 10 x 100
- ☒ 10x10
- ☐ 100x100

4. If the p-value of the Pearson Correlation is 1. then ...

1 point



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Graded Quiz • 30 min

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4. If the p-value of the Pearson Correlation is 1, then ...

1 point

- ☐ The variables are correlated
- ☐ The variables are not correlated
- ☒ None of the above

5. Consider the dataframe **df**; what method displays the first five rows of a dataframe?

1 point

- ☐ df.describe()
- ☒ df.head()
- ☐ df.tail()

6. What is the minimum possible value of Pearson's Correlation?

1 point

- ☒ 1
- ☐ -100
- ☒ -1

7. What is the Pearson Correlation between variables X and Y, if $X = -Y$?

1 point

- ☒ -1
- ☐ 1
- ☐ 0