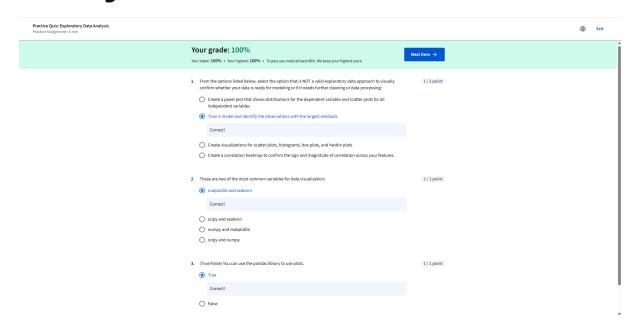
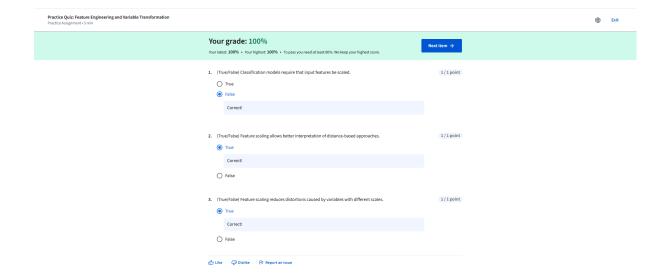
## Practice Quiz: Exploratory Data Analysis



## Practice Quiz: Feature Engineering and Variable Transformation



## **Graded Quiz: Module 3 - Exploratory Data Analysis and Feature Engineering**

Your grade: 100%  Your latest 100% • Your highest 100% • To pass you need at least 70%. We keep your highest score.	Next item →	
Which scaling approach converts features to standard normal variables?     Nobust scaling     Minktax scaling     Standard scaling     Nearest neighbor scaling	1/1 point	
Correct. Standard scaling converts variables to standard normal variables.  Which variable transformation should you use for ordinal data?  Standard scaling  Ordinal encoding  One hast encoding  Min-mas scaling  Correct	1/1 point	
Correct: Use ordinal encoding if there is some order to the categorical features.  3. What are polynomial features?  They are logistic regression coefficients.  They are lower order relationships in the data.  They are represented by linear relationships in the data.  They are higher order relationships in the data.	1/1 point	
Correct. Polynomial features are estimated by higher order polynomials in a linear model, lissquared, caked, etc.  4. What does Boxca transformation do?  ② It transforms the data distribution into more symmetrical bell curve  It transforms categorical variables into numerical variables.  It makes the data more left skewed.  It makes the data more left skewed.  Correct. Boxcox is one of the ways we can transform our skewed dataset to be more normal distributed.	1/1 point	
5. Select three important reasons why EDA is useful.  1. To analyze data sets, to determine the main characteristics of data sets, and to use sampling data  2. To examine correlations, to sample from dataframes, and to train models on random sample.  3. To utilize summany statistics, to create visualizations, and to identify outliers.  3. To determine if the data makes sense, to determine whether further data cleaning is needed, help identify patterns and trends in the data.  4. Convert.  4. Convert.  5. Convert.  6. Convert.  6. Convert.  6. Convert.  6. Convert.  6. Convert.  7. Convert.  8. Convert.  8. Convert.  9. Convert.  1. C	of data	
6. What assumption does the linear regression model make about data?  ® This model assumes a linear relationship between predictor variables and outcome variables.  This model assumes an addition of each one of the model parameters multiplied by a coeffici.  This model assumes a transformation of each parameter to a linear relationship.  This model assumes that raw data in data sets is on the same scale.  © Correct. The linear regression model assumes a linear relationship between predictor and o	ent.	
7. What is skewed data?  O that that has a normal distribution.  Raw data that may not have a linear relationship.  Bear data that is distorted away from normal distribution, may be positively or negatively skewed.  Raw data that has undergone log transformation.  Carrect  Correct. Often raw data, both the features and the outcome variable, can be negatively or posserved.	1/1 point	
Select the two primary types of categorical feature encoding.     Log and polynomial transformation     Encoding and scaling     Frequency encoding and label encoding     Orarect     Connect. Encoding that transforms non-numeric values to numeric values is often applied to categorical features.	3/3 point	
9. Which scaling approach puts values between zero and one?  Standard scaling  Min-mas scaling  Nearest neighbor scaling  Robust scaling  Correct  Correct, Min-mas scaling converts variables to continuous variables in the (0, 1) interval by minimum values to 0 and maximum values to 1.	1/1 point	
10. Which variable transformation should you use for nominal data with multiple different values with feature?  Ordinal encoding Standard scaling One-hot encoding Min mas scaling  ocreset Correct. Use one-hot encoding if there are multiple different values within a feature.	in the 1/1 point	