Assignment: Restaurant Linear Regression 04

Data Set: Restaurant Research

When reporting answers to Blackboard, set decimal places to 3 for answering the first part of the question, e.g., 1a, 2a, etc, e.g., 125.382 or 0.130. Questions 1b, 2b, etc. are answered True or False. Questions 1c etc. should be answered as a percentage, e.g., 1 or 9 or 25. On answer three, if Adjusted R^2 is reported to be less than 0, e.g., -.01 report 0 as your answer.

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1. Predict restaurant visit rates using attitudes toward having a smoking section available. To run this regression, you will use variables 2 and 10.

   a) _____ What will predicted restaurant visit rate be (to three decimal places) if people have a moderate rating on smoking of 4 on the scale measuring this attitude?

   b) True/False The predictor variable reliably predicts restaurant visits.

   c) _____% What proportion of the variance does the model explain?

   Alpha: .05

2. Predict restaurant spending using interest in comedy performances. To run this regression, you will use variables 1 and 25.

   a) _____ What will predicted restaurant spending be (to three decimal places) if the comedy performance rating is 6 on the scale?

   b) True/False The predictor variable reliably predicts restaurant spending.

   c) _____% What proportion of the variance does the model explain?

   Alpha: 0.2

3. Predict the importance of atmosphere as a restaurant feature based on attitudes toward a Mexican restaurant. To run this regression, you will use variables 13 and 15.

   a) _____ What will the predicted importance of atmosphere be (to three decimal places) if the rating of Mexican restaurants is 6 on the 7 point scale?

   b) True/False The predictor variable reliably predicts restaurant atmosphere preferences.

   c) _____% What proportion of the variance does the model explain?

   Alpha: .05