Assignment: Restaurant Linear Regression 07

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.

---

1. Predict frequency of visiting a restaurant using the alcohol attitude reflected in variable 24. To run this regression, you will use variables 2 and 24.

    a) _____   What will the predicted number of restaurant visits be (to three decimal places) if attitude toward alcohol availability is 5 on the 7 point scale?

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

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

    Alpha: .05

2. 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

3. Predict restaurant spending using restaurant atmosphere. To run this regression, you will use variables 1 and 13.

    a) _____   What will predicted restaurant spending be (to three decimal places) if the atmosphere rating is 5?

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

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

    Alpha: 0.1