



SAS Certified Statistical Business Analyst Using SAS 9: Regression and Modeling Credential

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QUESTION 1

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A linear model has the following characteristics:

1.

A dependent variable (y)

2.

One continuous variable (x1)

3.

One categorical (?1 with 3 levels) predictor variable and an interaction term (?1 by x1)

How many parameters, including the intercept, will be estimated for this model?

Enter your numeric answer in the space below.

Correct Answer: 7

Section: (none)

QUESTION 2

What is a drawback to performing data cleansing (imputation, transformations, etc.) on raw data prior to partitioning the data for honest assessment as opposed to performing the data cleansing after partitioning the data?

- A. It violates assumptions of the model.
- B. It requires extra computational effort and time.
- C. It omits the training (and test) data sets from the benefits of the cleansing methods.
- D. There is no ability to compare the effectiveness of different cleansing methods.

Correct Answer: D

QUESTION 3

Identify the correct SAS program for fitting a multiple linear regression model with dependent variable (y) and four predictor variables (x1-x4).

```
C A proc reg data=SASUSER.MLR;
          var y x1 x2 x3 x4;
          model y = x1-x4;
      run;
C B. proc reg data=SASUSER.MLR;
         model y = x1-x4;
      run;
C C. proc reg data=SASUSER.MLR;
          model y = x1;
         model y = x2;
         model y = x3;
         model y = x4;
      run;
C D. proc reg data=SASUSER.MLR;
          model y = x1 x2 x3 x4 /solution;
      run;
A. Option A
B. Option B
C. Option C
D. Option D
Correct Answer: B
```

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QUESTION 4

Refer to the exhibit.

Parameter	Estimates
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Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	Intercept	1	-4198.96572	280.25742	-14.98	<.0001	0
DemAge	Age	1	160.19215	4.15508	38.55	<.0001	1.06370
PromTime	Loyalty Card Tenure	1	-37.24851	11.70163	-3.18	0.0015	1.04481
DemAffl	Affluence Grade	1	32.20978	15.67542	2.05	0.0399	1.01901



Output from a multiple linear regression analysis is shown.

What is the most appropriate statement concerning collinearity between the input variables?

- A. Collinearity is a problem since all variance inflation values are less than 10.
- B. Collinearity is not a problem since all variance inflation values are less than 10.
- C. Collinearity is not a problem since all Pr>|t| values are less than 0.05.
- D. Collinearity is a problem since all Pr>|t| values are less than 0.05.

Correct Answer: C

Reference: https://www.researchgate.net/post/Multicollinearity_issues_is_a_value_less_than_10_acceptable_for_VIF

QUESTION 5

- In partitioning data for model assessment, which sampling methods are acceptable? (Choose two.)
- A. Simple random sampling without replacement
- B. Simple random sampling with replacement
- C. Stratified random sampling without replacement
- D. Sequential random sampling with replacement
- Correct Answer: AC

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