

SAS Interactive Model Building using SAS Visual Statistics 8.4 on SAS Viya  
Practice Questions

You have a regression model effect that represents the total amount of sales. In addition to that, you would like to create a model effect that represents the average amount of sales. Which option should you use?

- A. Create an aggregated measure using the Avg aggregation on total amount of sales.
- B. Create a calculated item that divides total amount of sales by the total amount of items sold.
- C. Create a calculated item by duplicating the original model effect and changing its default aggregation to Average.
- D. Create an aggregated measure using the Sum aggregation of total amount of sales divided by the Sum aggregation of total amount of items sold.

correct\_answer = "C"

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Your company has a dataset that represents global sales. You are a part of a team of analysts that each have responsibility for a certain region of the world. You decide to create a data source filter to suppress every region but yours. What effect will this have on any new explorations that your teammates create?

- A. It will delete all observations that do not match your region.
- B. It will have no effect on any observations in the dataset.
- C. It will suppress all observations that do not match your region.
- D. It will suppress all observations that do not match their corresponding region.

correct\_answer = "B"

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Which equation does **NOT** represent a linear model?

Note:  $b_i$  are parameters and  $X_i$  are variables.

- A.  $y = b_0 + b_1X_1 + b_2X_2$
- B.  $y = b_0 + b_1X_1 + b_2X_2 + b_3(X_1X_2)$
- C.  $y = b_0 + b_1X_1 + (b_2/b_1)X_2$
- D.  $y = b_0 + b_1X_1 + b_2X_1^3$

correct\_answer = "C"

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Which statement is **TRUE** regarding a generalized additive model (GAM) in SAS Visual Analytics?

- A. GAM assumes a strict linear relationship between the predictors and the response function.
- B. The roughness penalty controls the balance between goodness of fit and the roughness of the spline curve.
- C. Specification of a spline effect is optional.
- D. A larger maximum degrees of freedom for the univariate spline term enforces a less complex fit.

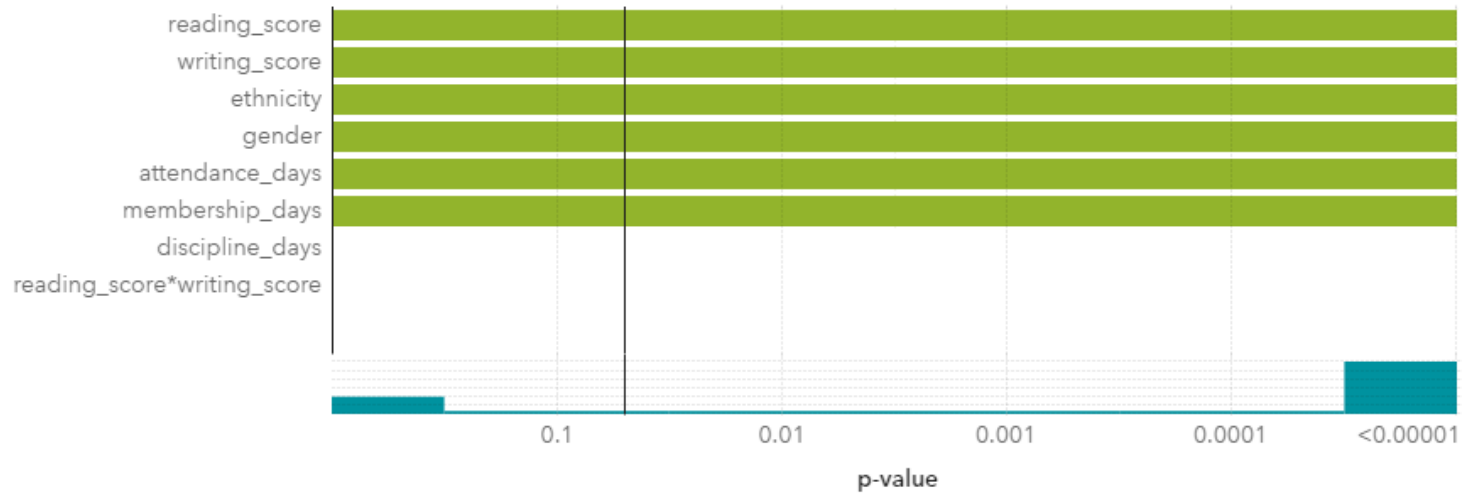
Correct answer = "B"

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Practice Questions

Refer to the exhibit:

Fit Summary



Dimensions Overall ANOVA Fit Statistics Parameter Estimates Type III Test Selection Info Selection Summary Assessment >

| Description                      | Value  |
|----------------------------------|--------|
| Number of Model Effects          | 9      |
| Number of Classification Effects | 2      |
| Number of Columns in X           | 14     |
| Rank of Cross-product Matrix     | 10     |
| Number of Observations Read      | 40,087 |
| Number of Observations Used      | 8,826  |

Which option was **NOT** specified in creating the linear regression model using SAS Visual Statistics?

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- A. interaction term
- B. group-by variable
- C. variable selection
- D. continuous effects

correct\_answer = "B"

Refer to the exhibit:

| Name                            | Minimum | Maximum | Average | Sum          |
|---------------------------------|---------|---------|---------|--------------|
| Promotion Count Card All Months | 2.00    | 56.00   | 19.01   | 2,025,133.00 |
| Status Category Star All Months | 0.00    | 1.00    | 0.54    | 57,596.00    |
| Target Gift Amount              | 1.00    | 200.00  | 15.62   | 832,355.70   |
| Target Gift Amount with Zero    | 0.00    | 200.00  | 7.81    | 832,355.70   |
| Target Gift Flag                | 0.00    | 1.00    | 0.50    | 53,273.00    |

More information

|                              |               |
|------------------------------|---------------|
| Standard Deviation:          | 12.44         |
| Standard Error:              | 0.05          |
| Variance:                    | 154.85        |
| Distinct Count:              | 70            |
| Number Missing:              | 53,273        |
| Total Observations:          | 53,273        |
| Skewness:                    | 5.1680        |
| Kurtosis:                    | 52.8002       |
| Coefficient of Variation:    | 79.6447       |
| Uncorrected Sum of Squares:  | 21,254,307.28 |
| Corrected Sum of Squares:    | 8,249,295.14  |
| T-statistic (for Average=0): | 289.7987      |
| P-value (for T-statistic):   | <0.0001       |



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Which is the modeling approach that should be used when fitting the **Target Gift Amount** variable?

- A. Linear regression model with Interaction effects.
- B. Generalized linear model with a Poisson distribution and Identity link.
- C. Generalized linear model with a Normal distribution and Log Link.
- D. Logistic regression model.

correct\_answer = "C"

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You perform a logistic regression on a multinomial response variable in SAS Visual Statistics that has 3 levels: Small, Medium, Large. "Large" is specified as the event. Which statement is true?

- A. The other levels are grouped into one non-event.
- B. An ordinal logistic regression is performed.
- C. A multinomial logistic regression is performed.
- D. The other levels are offset to account for exposure.

correct\_answer = "A"

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Practice Questions

Refer to the exhibit from a linear regression model in SAS Visual Statistics.

| Dimensions | Overall ANOVA | Fit Statistics | Parameter Estimates | Type III Test  | Assessment | Assessment Statistics |
|------------|---------------|----------------|---------------------|----------------|------------|-----------------------|
| Parameter  |               |                | Estimate            | Standard Error | t Value    | Pr >  t               |
| Intercept  |               |                | 102.9345            | 12.40326       | 8.298987   | <0.00001              |
| Age        |               |                | -0.22697            | 0.099837       | -2.27343   | 0.03224               |
| MaxPulse   |               |                | 0.303217            | 0.136495       | 2.221449   | 0.03601               |
| RestPulse  |               |                | -0.02153            | 0.066054       | -0.326     | 0.74725               |
| RunPulse   |               |                | -0.36963            | 0.119853       | -3.08401   | 0.00508               |
| RunTime    |               |                | -2.62865            | 0.384562       | -6.83544   | <0.00001              |
| Weight     |               |                | -0.07418            | 0.054593       | -1.35873   | 0.18687               |

Based on the table above and assuming a significance level of 0.05, what can be concluded about the linear regression model?

- A. The Intercept is an important predictor of the response.
- B. RestPulse is a significant predictor of the response.
- C. For one one-unit increase in RunTime, there is an expected decrease in the response of 2.6287.
- D. For a .03696 unit decrease in RunPulse, there is an expected one-unit increase in the response.

correct\_answer = "C"

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You would like to compare multiple models that you've built in SAS Visual Statistics. Which parameters must be the same for all models being compared?

(Choose 3)

- A. Data Source

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Practice Questions

- B. Assessment Bins
- C. Model Type
- D. Event Level
- E. Response Variable
- F. Link Function

correct\_answer = "A,D,E"

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Which model does **NOT** produce score code?

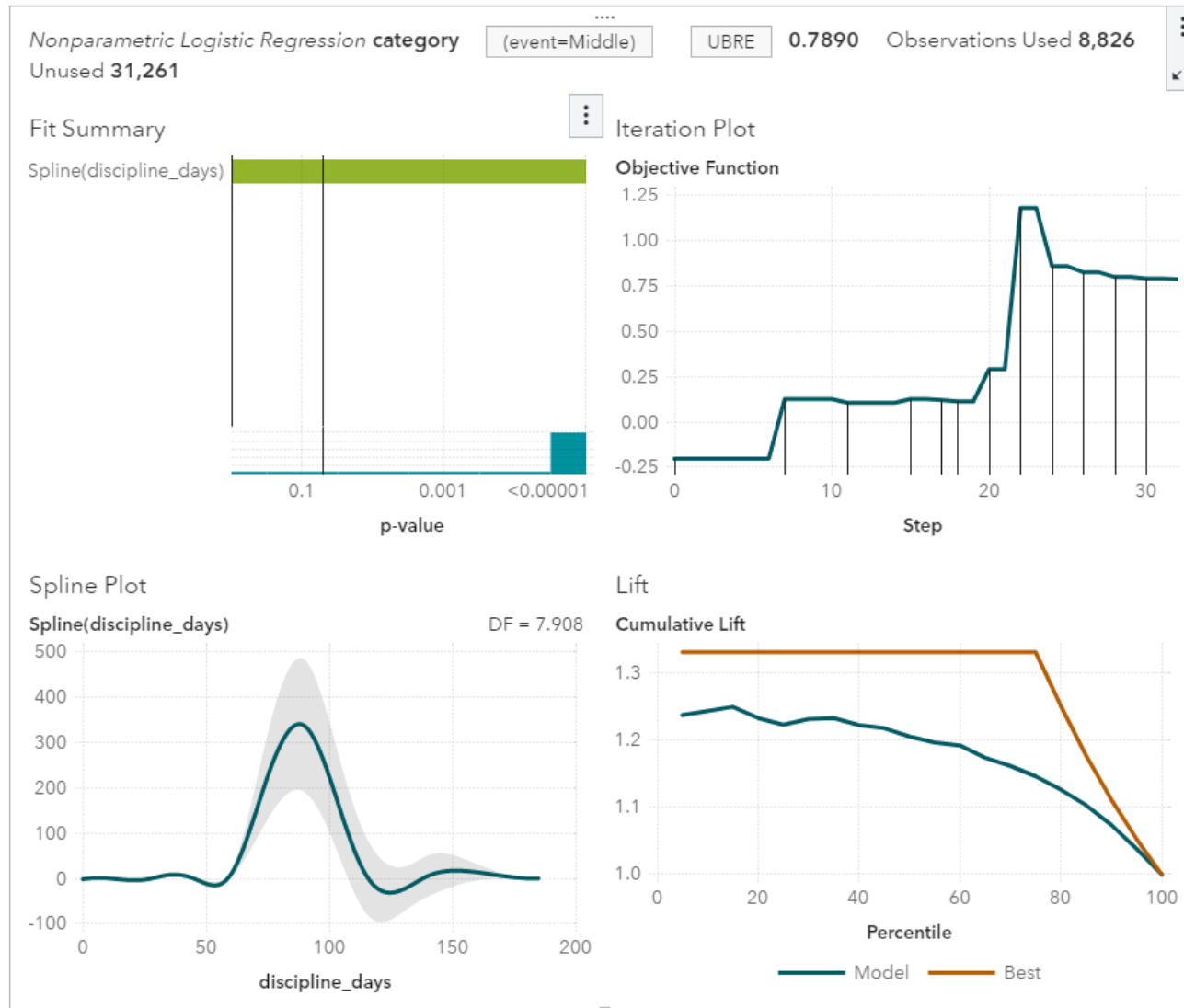
- A. Decision Tree using interactive mode
- B. Regression using interaction effects
- C. Regression using the group by option
- D. Decision Tree using the rapid growth option

correct\_answer = "A"

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# SAS Interactive Model Building using SAS Visual Statistics 8.4 on SAS Viya Practice Questions

In the below nonparametric logistic regression results display, where would you click to get a plot of significant continuous effects?





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Correct answer – *click in red box below*

