

A00-240^{Q&As}

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

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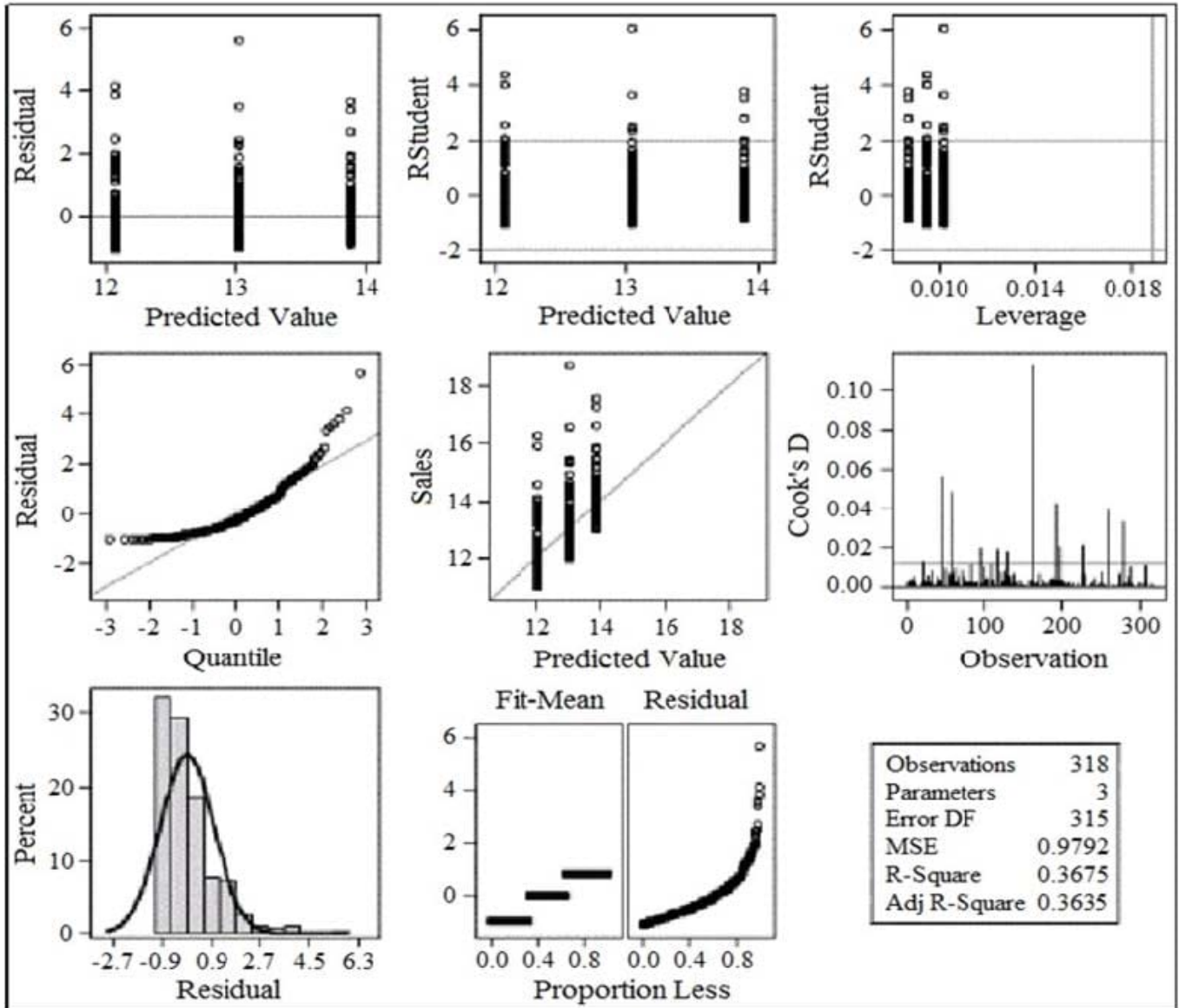
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QUESTION 1

Refer to the exhibit.



These graphs were created using the GLM procedure with the plots(only)=diagnostics option.

Which plot do you use to identify influential observations?

- A. Cook's D by Observation
- B. Residual by Quantile
- C. Residual by Predicted
- D. Fit - Mean and Residual Plot

Correct Answer: A

Reference: https://books.google.com.pk/books?id=fx77Pzerty8Candpg=PA279andlpg=PA279anddq=sas+statistical+analysis+plot+do+you+use+to+identify+influential+observationsandsource=blandots=AJavSAqI_gandsig=ACfU3U0jbAa6lTWvSeSJ6y5bwp4osAyigAandhl=enandsa=Xandved=2ahUKEwje34nyqajnAhXDThUIHUfUCj0Q6AEwEXoECAoQAQ#v=onepageandq=sas%20statistical%20analysis%20plot%20do%20you%20use%20to%20identify%20influential%20observationsandf=false

QUESTION 2

Suppose training data are oversampled in the event group to make the number of events and non-events roughly equal. A logistic regression is run and the probabilities are output to a data set NEW and given the variable name PE. A decision rule considered is, "Classify data as an event if probability is greater than 0.5." Also the data set NEW contains a variable TG that indicates whether there is an event (1=Event, 0= No event).

The following SAS program was used.

```
data NEW;
  set NEW;
  Solicit = PE > .5;
run;
proc means data=NEW(where = (TG=1)) mean;
  var Solicit;
run;
```

What does this program calculate?

- A. Depth
- B. Sensitivity
- C. Specificity
- D. Positive predictive value

Correct Answer: B

QUESTION 3

Given the following LOGISTIC procedure:

```
proc logistic data = MYDIR.CONVERT des outest=OUTFILE_1;
  model Attrite = Calls Plan Billing_code;
  score data=MYDIR.NEW_ATTRITE_DATA out=OUTFILE_2;
run;
```

What is the difference between the datasets OUTFILEJ and OUTFILE_2?

- A. OUTFILE_1 contains the final parameter estimates while OUTFILE_2 contains the newly scored probabilities.
- B. OUTFILE_1 contains the model goodness of fit statistics while OUTFILE_2 contains the newly scored probabilities

C. OUTFILE_1 contains the model goodness of fit statistics while OUTFILE_2 contains the newly scored logits.

D. OUTFILEJ contains the final parameter estimates and Wald Chi-Square values while OUTFILE_2 contains the newly scored probabilities.

Correct Answer: A

QUESTION 4

This question will ask you to provide missing code segments.

A logistic regression model was fit on a data set where 40% of the outcomes were events (TARGET=1) and 60% were non-events (TARGET=0). The analyst knows that the population where the model will be deployed has 5% events and

95% non-events. The analyst also knows that the company's profit margin for correctly targeted events is nine times higher than the company's loss for incorrectly targeted non-event.

Given the following SAS program:

```
proc logistic data = LOANS descending;
  model Purch = Inc Edu;
  score data = LOANS_V out = LOANS_VS priorevent = (insert X here);
run;
data LOANS_VS; set LOANS_VS;
  Solicit = P_1 > (insert Y here);
run;
```

What X and Y values should be added to the program to correctly score the data?

- A. X=40, Y=10
- B. X=.05, Y=10
- C. X=.05, Y=.40
- D. X=.10, Y=05

Correct Answer: B

QUESTION 5

Which method is NOT an appropriate way to score new observations with a known target in a logistic regression model?

- A. Use the SCORE statement in the LOGISTIC procedure.
- B. Augment the training data set with new observations and set their responses to missing.
- C. Augment the training data set with new observations and rerun the LOGISTIC procedure.
- D. Use the saved parameter estimates from the LOGISTIC procedure and score new observations in the SCORE

procedure.

Correct Answer: C

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