



A00-240^{Q&As}

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QUESTION 1

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 2

Refer to the exhibit:

Number in Model	R-Square	Adjusted R-Square	C(p)	AIC	Root MSE	SBC	Variables in Model
1	0.7434	0.7345	13.6988	64.5341	2.74478	67.40210	RunTime
1	0.1595	0.1305	106.3021	101.3131	4.96748	104.18108	RestPulse
2	0.7642	0.7474	12.3894	63.9050	2.67739	68.20695	Age RunTime
2	0.7614	0.7444	12.8372	64.2740	2.69337	68.57597	RunTime RunPulse
3	0.8111	0.7901	6.9596	59.0373	2.44063	64.77326	Age RunTime RunPulse
3	0.8100	0.7889	7.1350	59.2183	2.44777	64.95424	RunTime RunPulse MaxPulse
4	0.8368	0.8117	4.8800	56.4995	2.31159	63.66941	Age RunTime RunPulse MaxPulse
4	0.8165	0.7883	8.1035	60.1386	2.45133	67.30850	Age Weight RunTime RunPulse
5	0.8480	0.8176	5.1063	56.2986	2.27516	64.90250	Age Weight RunTime RunPulse MaxPulse
5	0.8370	0.8044	6.8461	58.4590	2.35583	67.06288	Age RunTime RunPulse RestPulse MaxPulse
6	0.8487	0.8108	7.0000	58.1616	2.31695	68.19952	Age Weight RunTime RunPulse RestPulse MaxPulse

SAS output from the RSQUARE selection method, within the REG procedure, is shown. The top two models in each subset are given.

Based on the AIC statistic, which model is the champion model?

- A. Age Weight RunTime RunPulse MaxPulse
- B. Age Weight RunTime RunPulse RestPulse MaxPulse
- C. RestPulse



D. RunTime

Correct Answer: A

QUESTION 3

One common approach for predicting rare events in the LOGISTIC procedure is to build a model that disproportionately over-re presents those cases with an event occurring (e.g. a 50-50 event/non-event split). What problem does this present?

- A. All parameter estimates are biased.
- B. Only the intercept estimate is biased.
- C. Only the non-intercept parameter estimates are biased.
- D. Sensitivity estimates are biased.

Correct Answer: B

QUESTION 4

An analyst investigates Region (A, B, or C) as an input variable in a logistic regression model.

The analyst discovers that the probability of purchasing a certain item when Region = A is 1.

What problem does this illustrate?

- A. Collinearity
- B. Influential observations
- C. Quasi-complete separation
- D. Problems that arise due to missing values

Correct Answer: C

QUESTION 5

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Refer to the confusion matrix:



		Predicted Outcome	
		0	1
Actual Outcome	0	345	155
	1	188	312

An analyst determines that loan defaults occur at the rate of 3% in the overall population. The above confusion matrix is from an oversampled test set (1 = default).

What is the sensitivity adjusted for the population event probability?

Enter your answer in the space below. Round to three decimals (example: n.nnn).

Correct Answer: 0.617

Section: (none)

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