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QUESTION 1

An analyst compares the mean salaries of men and women working at a company. The SAS data set SALARY contains variables:

1.

 Gender (M or F)

2.

 Pay (dollars per year)

Which SAS programs can be used to find the p-value for comparing men\\'s salaries with women\\'s salaries? (Choose two.)

```
 A.  proc glm data = SALARY;
         class Gender;
         model Pay = Gender;
     run;


 B.  proc ttest data = SALARY;
         class Gender;
         var Pay;
     run;


 C.  proc glm data = SALARY;
         class Pay;
         model Pay = Gender;
     run;


 D.  proc ttest data = SALARY;
         class Gender;
         model Pay = Gender;
     run;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: AB

QUESTION 2

Consider scoring new observations in the SCORE procedure versus the SCORE statement in the LOGISTIC procedure.

Which statement is true?

A. The SCORE statement in the LOGISTIC procedure returns only predicted probabilities, whereas the SCORE procedure returns only predicted logits.

B. The SCORE statement in the LOGISTIC procedure returns only predicted logits, whereas the SCORE procedure returns only predicted probabilities.

C. Unlike the SCORE procedure, the SCORE statement in the LOGISTIC procedure produces both predicted probabilities and predicted logits.

D. The SCORE procedure and the SCORE statement in the LOGISTIC procedure produce the same output.

Correct Answer: A

QUESTION 3

The SAS data set RESULT contains the following variables:

1.

 Region (GrpA or GrpB)

2.

 Sales (dollars per year)

Which SAS programs can be used to find the p-value for comparing GrpA sales with GrpB sales? (Choose two.)

A.
```
proc ttest data = RESULT;
    class Region;
    var Sales;
run;
```

B.
```
proc ttest data = RESULT;
    class Region;
    model Sales = Region;
run;
```

C.
```
proc glm data = RESULT;
    class Region;
    model Sales = Region;
run;
```

D.
```
proc glm data = RESULT;
    class Sales;
    model Sales = Region;
run;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: AB

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
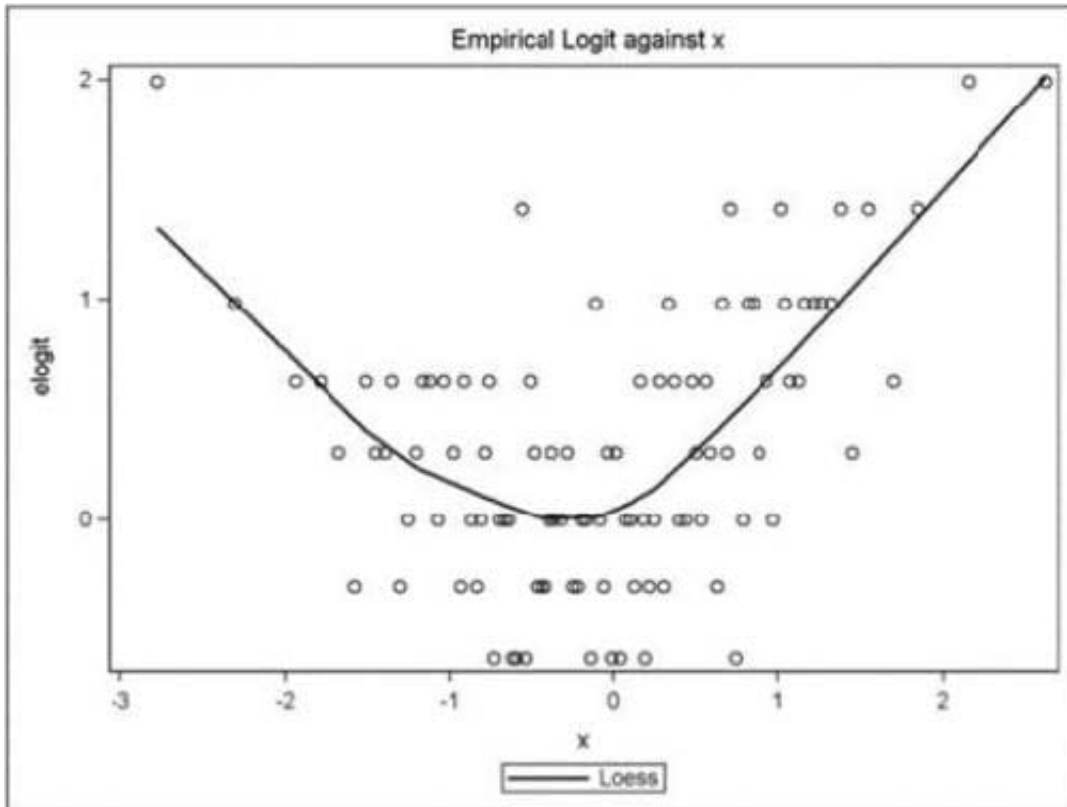
C. Quasi-complete separation

D. Problems that arise due to missing values

Correct Answer: C

QUESTION 5

Refer to the following exhibit:

Empirical Logit against x

What is a correct interpretation of this graph?

A. The association between the continuous predictor and the binary response is quadratic.

B. The association between the continuous predictor and the log-odds is quadratic.

C. The association between the continuous predictor and the continuous response is quadratic.

D. The association between the binary predictor and the log-odds is quadratic.

Correct Answer: B

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