CompTIA DY0-001

CompTIA DataX Certification Exam



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Product Version

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Latest Version: 6.0

Question: 1

SIMULATION

A client has gathered weather data on which regions have high temperatures. The client would like a visualization to gain a better understanding of the data.

INSTRUCTIONS

Part 1

Review the charts provided and use the drop-down menu to select the most appropriate way to standardize the data.

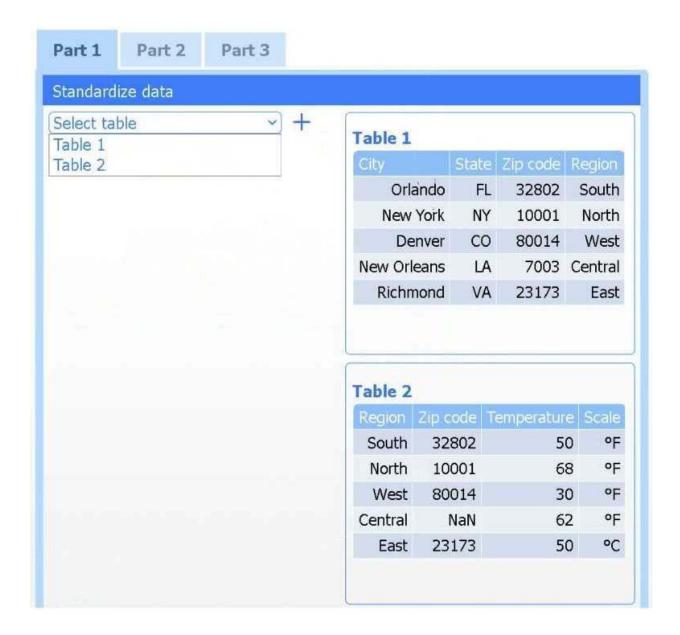
Part 2

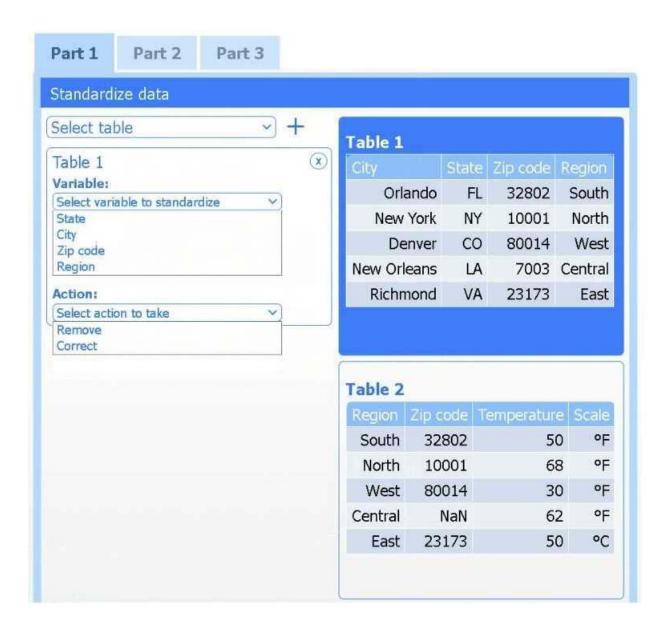
Answer the questions to determine how to create one data set.

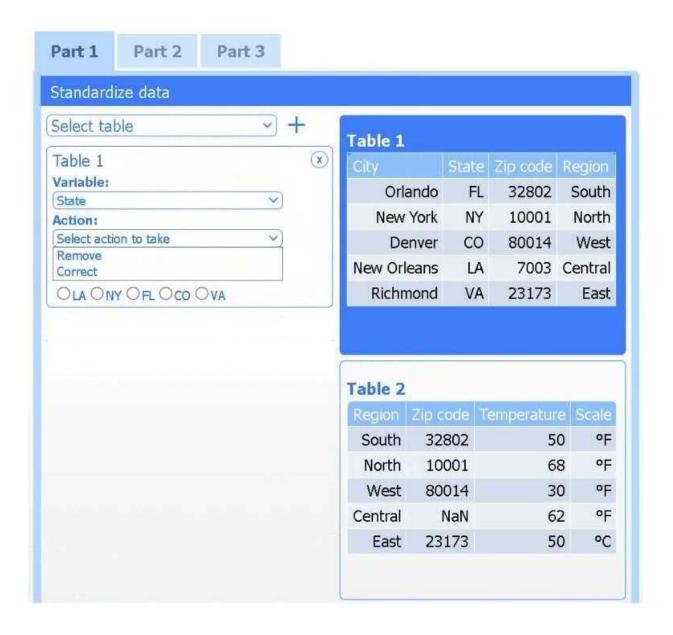
Part 3

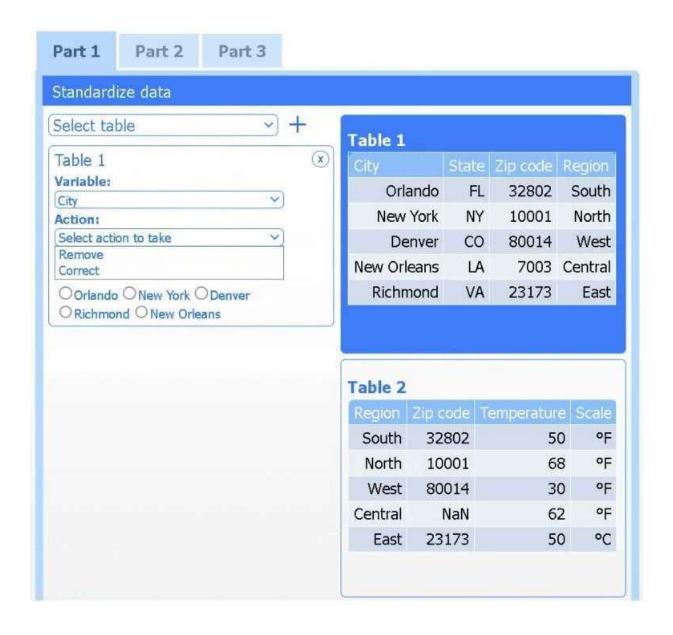
Select the most appropriate visualization based on the data set that represents what the client is looking for.

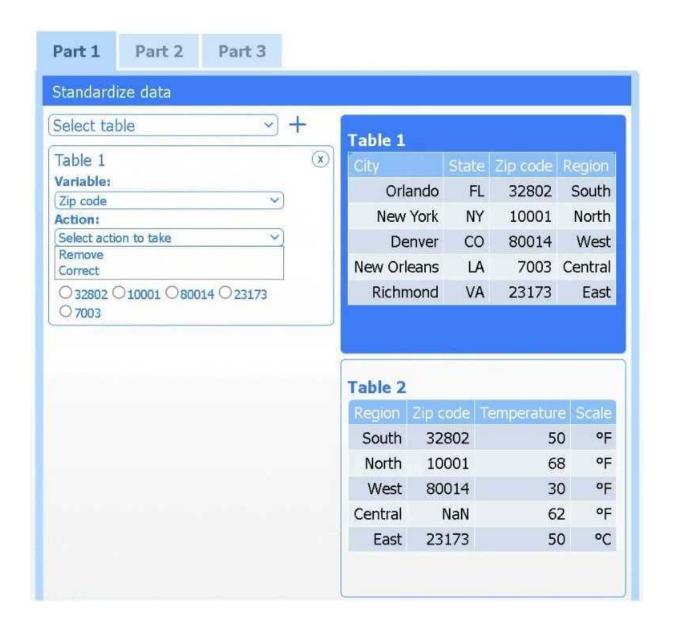
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

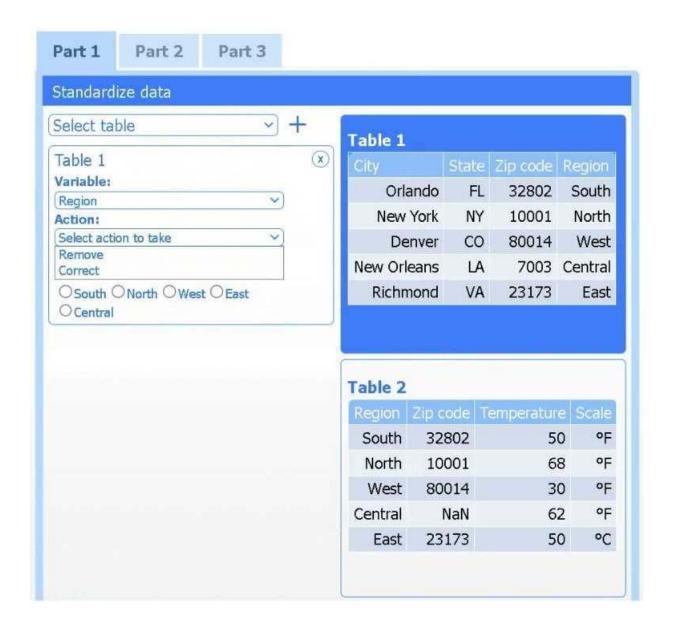


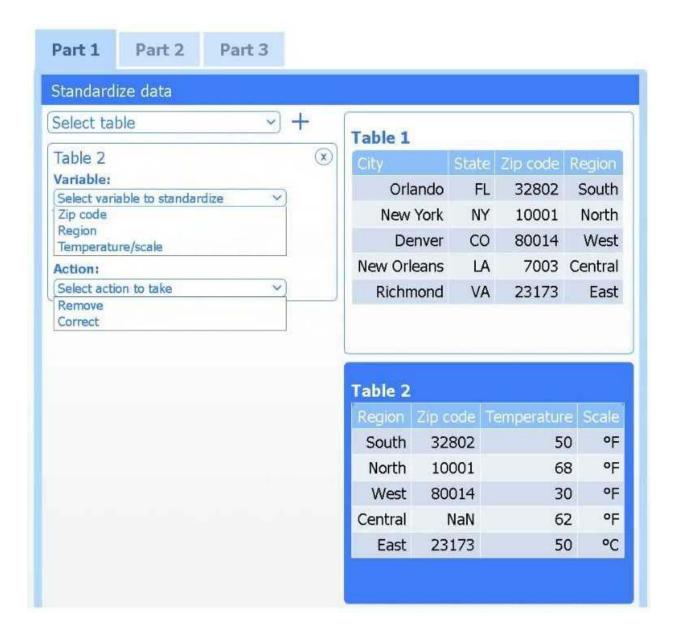


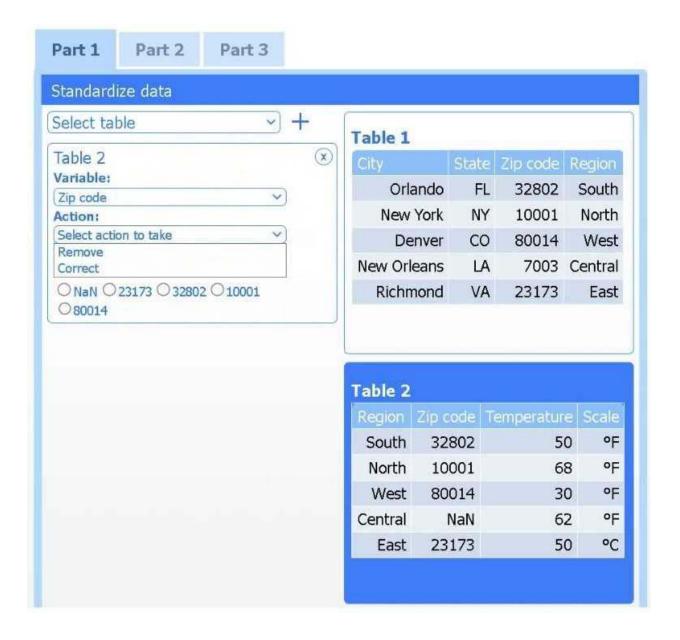


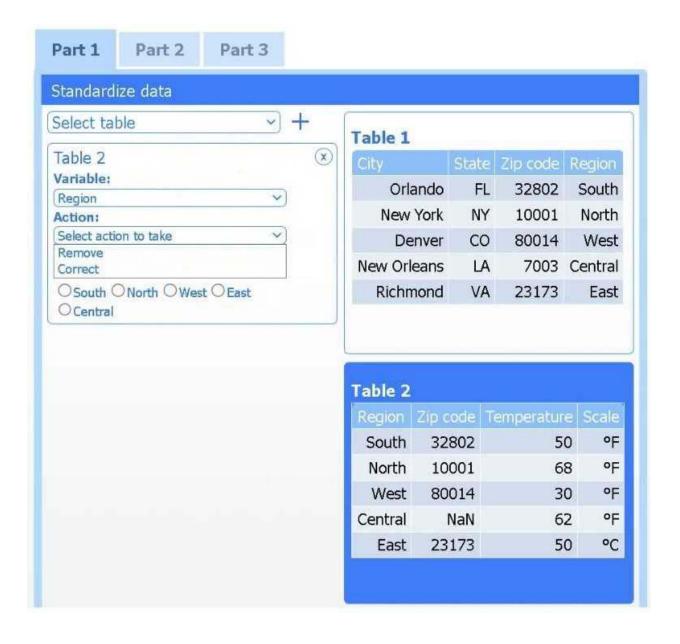


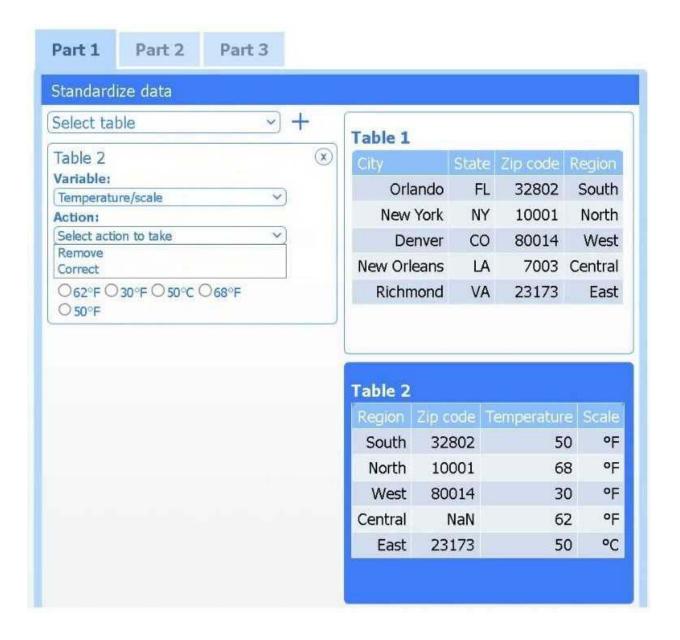


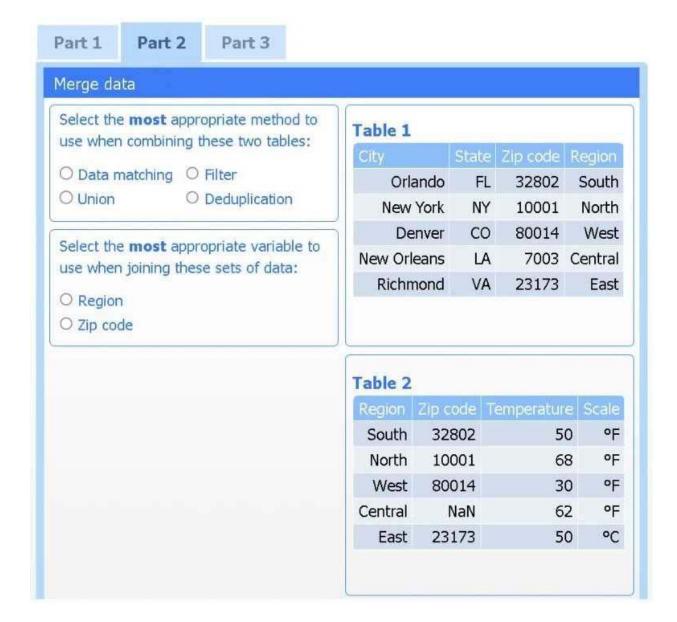




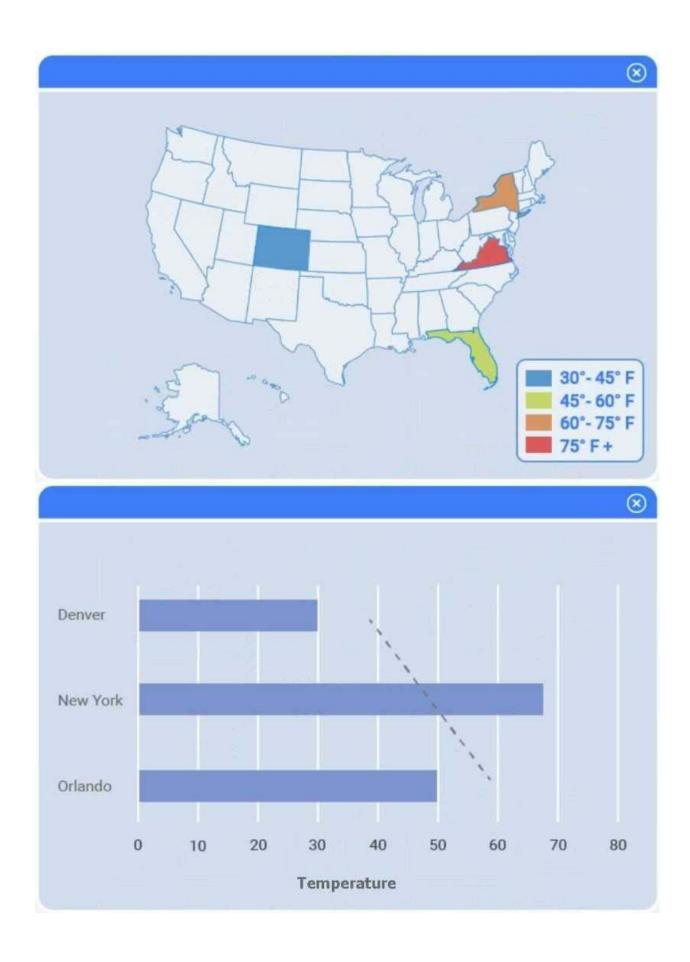




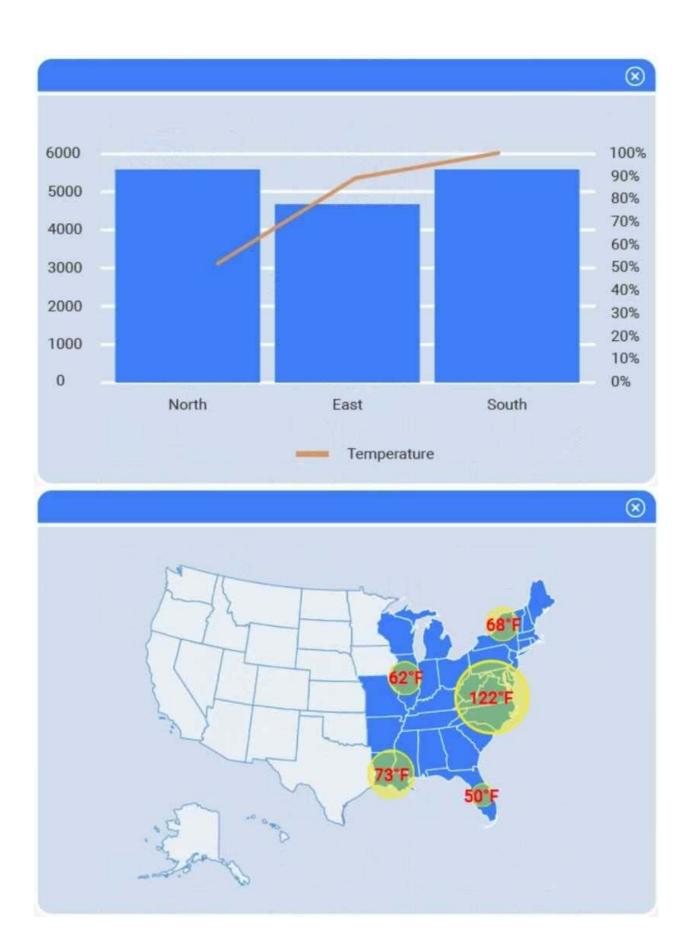








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Answer: See explanation below.

Explanation: Explanation:

Part 1

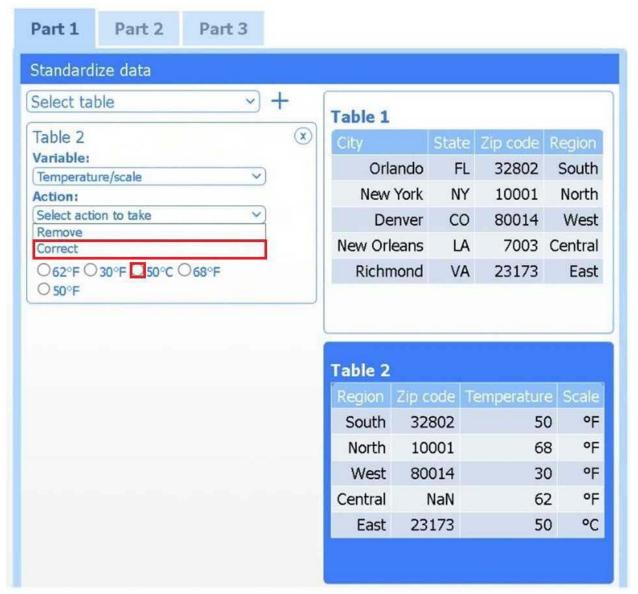
Select Table 2. Table 2 contains mixed temperature scales (°F and °C) that must be standardized

before visualization.

Variable: Temperature/scale

Action: Correct

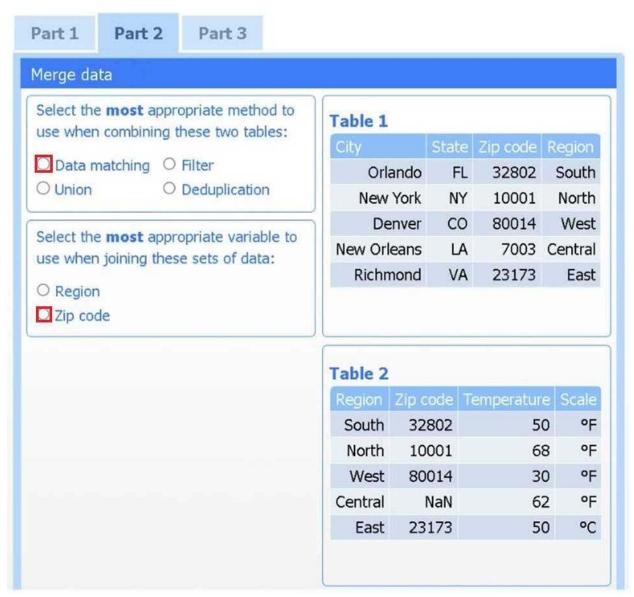
Value to correct: 50 °C



Part 2

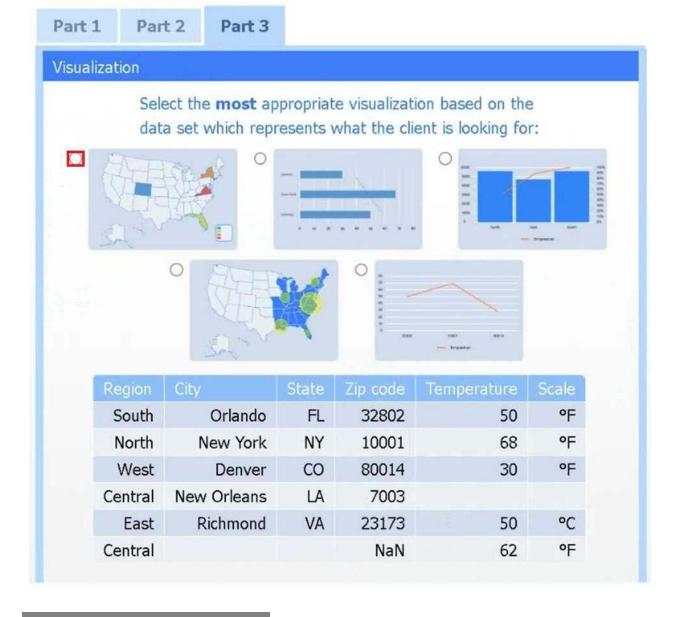
Method: Data matching Join variable: Zip code

You need to merge the two tables by aligning matching records, which is a data-matching (join) operation, and ZIP code is the shared, uniquely identifying field linking each region's weather reading to its city.



Part 3 Choose the choropleth map (the first option).

A choropleth map best shows geographic variation in temperature by coloring each state (or region) according to its recorded value. This lets the client immediately see where the highest and lowest temperatures occur across the U.S. without distracting elements like bubble size or combined chart axes.



Question: 2

SIMULATION

A data scientist needs to determine whether product sales are impacted by other contributing factors. The client has provided the data scientist with sales and other variables in the data set. The data scientist decides to test potential models that include other information.

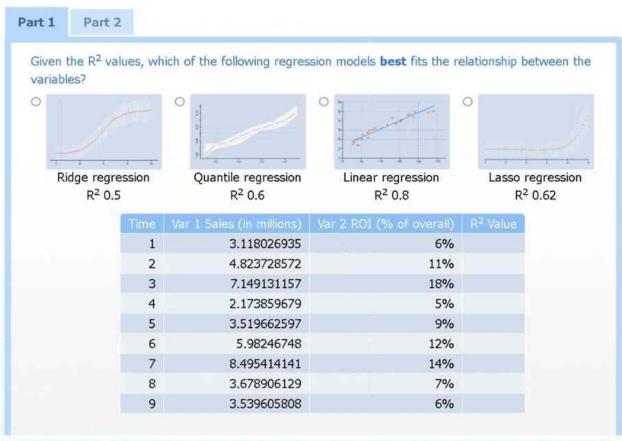
INSTRUCTIONS

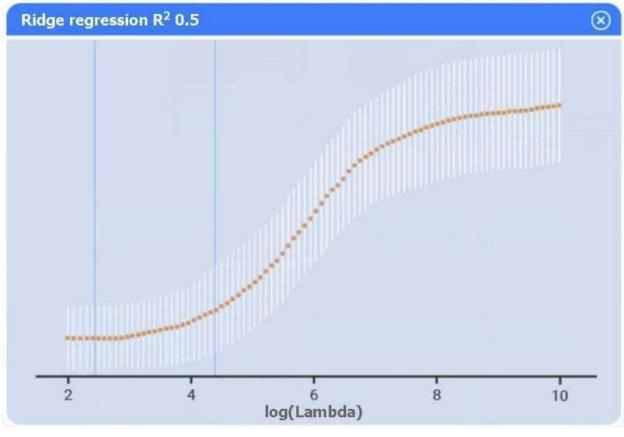
Part 1

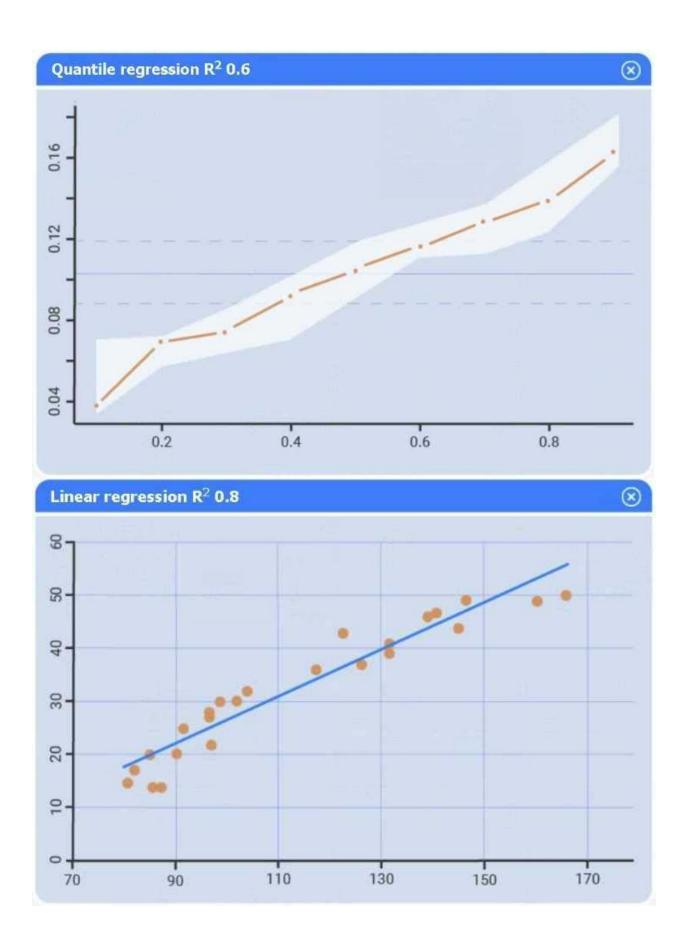
Use the information provided in the table to select the appropriate regression model.

Part 2

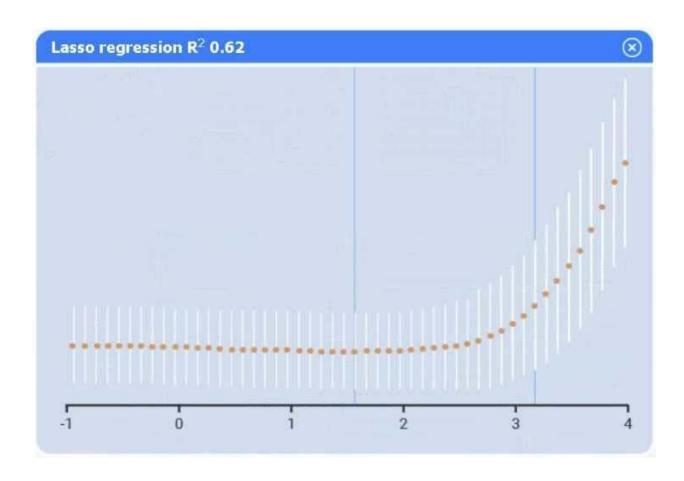
Review the summary output and variable table to determine which variable is statistically significant. If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

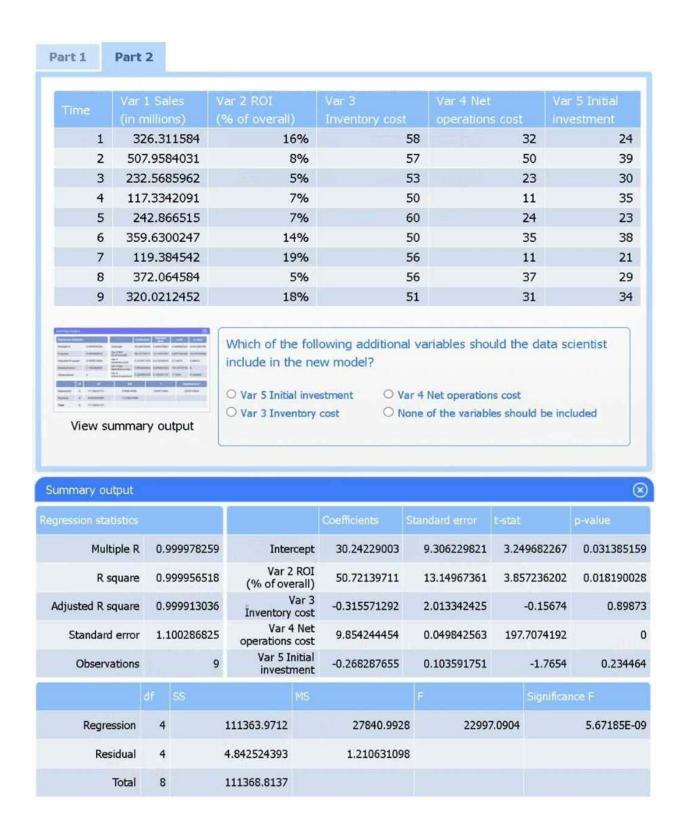






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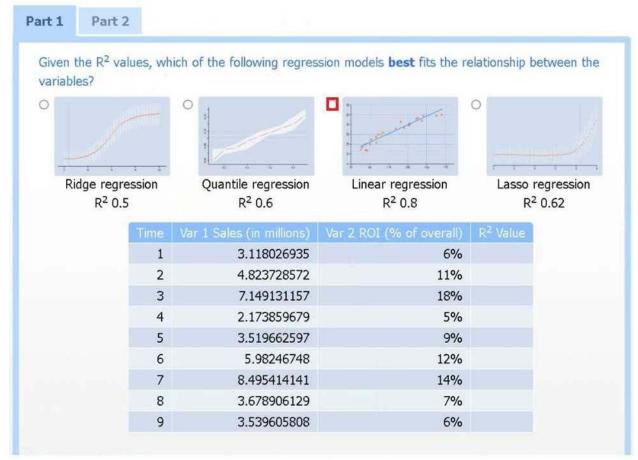
Answer: See explanation below.

Explanation:

Part 1

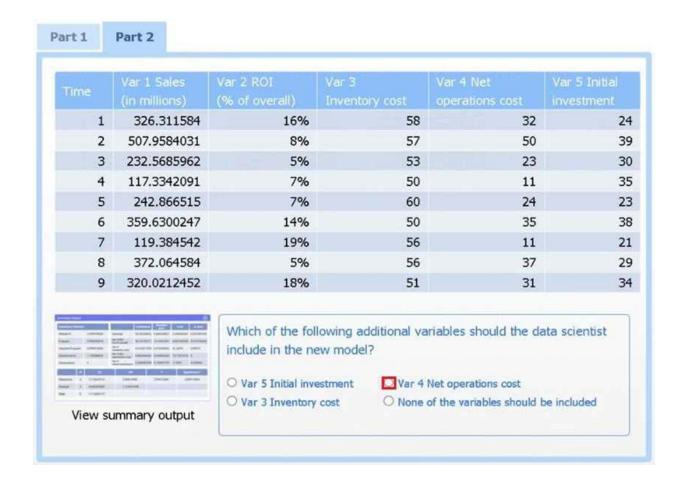
Linear regression.

Of the four models, linear regression has the highest R² (0.8), indicating it explains the greatest proportion of variance in sales.



Part 2 Var 4 – Net operations cost.

Net operations cost has a p-value of essentially 0 (far below 0.05), indicating it is the only additional predictor statistically significant in explaining sales. Neither inventory cost ($p\approx0.90$) nor initial investment ($p\approx0.23$) reach significance.



Question: 3

A data scientist is building an inferential model with a single predictor variable. A scatter plot of the independent variable against the real-number dependent variable shows a strong relationship between them. The predictor variable is normally distributed with very few outliers. Which of the following algorithms is the best fit for this model, given the data scientist wants the model to be easily interpreted?

- A. A logistic regression
- B. An exponential regression
- C. A linear regression
- D. A probit regression

Answer: C

Question: 4

A data scientist wants to evaluate the performance of various nonlinear models. Which of the following is best suited for this task?

- A. AIC
- B. Chi-squared test
- C. MCC
- D. ANOVA

Answer: A

Question: 5

Which of the following is the layer that is responsible for the depth in deep learning?

- A. Convolution
- B. Dropout
- C. Pooling
- D. Hidden

Answer: D

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