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Python**



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Question: 1

Why is it important to define and apply validation rules consistently across all stages of a data pipeline?

- A. It reduces processing time by skipping null checks
- B. It guarantees compatibility with visualization tools
- C. It prevents the propagation of corrupted or invalid data
- D. It automatically optimizes SQL queries

Answer: B

Question: 2

In a scatter plot showing the relationship between advertising spend and sales revenue, the points form a tight upward-sloping pattern. What conclusion can be drawn?

- A. The correlation is weak and likely negative
- B. The data shows no apparent relationship
- C. There is a strong positive correlation
- D. Advertising has no effect on sales

Answer: C

Question: 3

What is the main purpose of using the bootstrapping technique in inferential statistics?

- A. To estimate the sampling distribution by resampling with replacement
- B. To validate the syntax of SQL queries in Python
- C. To filter outliers from a dataset
- D. To increase the number of features in a model

Answer: A

Question: 4

What distinguishes structured data from unstructured data in the context of data modeling and storage?

- A. Structured data cannot be stored in databases
- B. Structured data follows a consistent schema or format
- C. Unstructured data contains only numeric values
- D. Unstructured data cannot be stored or analyzed

Answer: B

Question: 5

When performing bootstrapping on a dataset with 500 observations, what is a typical procedure?

- A. Generating multiple datasets of the same size by randomly sampling with replacement
- B. Creating samples by removing all duplicates
- C. Scaling all values between 0 and 1 before resampling
- D. Drawing one sample and calculating the mean only once

Answer: A

Question: 6

When analyzing a dataset of customer ages, you calculate the mean, median, and mode. What does it indicate if all three values are approximately equal?

- A. The dataset is uniformly distributed
- B. The dataset is positively skewed
- C. The dataset has a normal distribution
- D. The dataset contains outliers

Answer: C

Question: 7

Which data collection method is most appropriate when gathering opinions from a target audience at scale?

- A. Surveys
- B. Web scraping
- C. Sensor logs
- D. Transactional data

Answer: A

Question: 8

How would you extract the last three rows of a DataFrame df using position-based indexing?

- A. df.tail(3)
- B. df.loc[-3:]
- C. df.iloc[-3:]
- D. df[-3]

Answer: C

Question: 9

Which best practices help enhance database security when building Python data analysis pipelines? (choose two)

- A. Limit database user permissions to only necessary operations
- B. Construct queries using f-strings for readability
- C. Sanitize input by replacing dangerous characters with asterisks
- D. Store credentials securely using environment variables

Answer: A,D

Question: 10

You have a list of product prices, and you need to remove duplicate values while maintaining the fastest performance. Which core data structure should you use?

- A. list
- B. set
- C. dictionary
- D. tuple

Answer: B

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