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PCAD-31-02

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Python (PCAD-31-02)**



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Question: 1

What is a major challenge in aggregating data from multiple sources?

Response:

- A. Excessive disk space usage
- B. Duplicate records and format inconsistencies
- C. Increased algorithmic complexity
- D. Overfitting in predictive models

Answer: B

Question: 2

What may occur if a model is evaluated using the same data it was trained on?

- A. Overgeneralization
- B. Data leakage
- C. Overfitting
- D. Underfitting

Answer: C

Question: 3

What is the primary goal of pre-processing data before performing analysis?

- A. To minimize the number of data points
- B. To obscure sensitive information
- C. To ensure the data is clean, consistent, and suitable for modeling
- D. To compress datasets for storage efficiency

Answer: C

Question: 4

Which method allows you to detect and remove rows with duplicate values across all columns in a Pandas DataFrame?

- A. DataFrame.unique()
- B. DataFrame.remove_duplicates()
- C. DataFrame.drop_duplicates()
- D. DataFrame.nunique()

Answer: B

Question: 5

Which operations are recommended when organizing messy tabular data in Pandas for further transformation and statistical modeling?
(choose two)

- A. Resetting the index after filtering
- B. Dropping column headers
- C. Ensuring consistent data types
- D. Converting the DataFrame to a Series

Answer: A,C

Question: 6

Which conditions typically necessitate data normalization or scaling before analysis?
(choose two)

- A. Features with different units and scales
- B. Presence of duplicate data
- C. Distance-based modeling algorithms
- D. Boolean feature encoding

Answer: A,C

Question: 7

Which SQL commands can be used to modify the contents of a table's data directly?
(Choose all that apply)

- A. UPDATE
- B. DELETE

- C. SELECT
- D. INSERT

Answer: A,D

Question: 8

Which of the following best describes the purpose of the `plt.subplot()` function in Matplotlib?

- A. It overlays multiple plots in the same figure without axes
- B. It creates a 3D surface plot using pandas
- C. It configures multiple plots in a grid layout within a single figure
- D. It links Matplotlib with Seaborn's grid styling

Answer: C

Question: 9

Which Python constructs are useful for comparing and managing object identity in a data pipeline?
(Choose all that apply)

- A. `is` operator for memory-level comparison
- B. `id()` function to retrieve unique object identifiers
- C. `str()` function to convert data formats
- D. `==` operator for checking value equivalence

Answer: A,B

Question: 10

What is a key assumption of linear regression that distinguishes it from logistic regression?

- A. Output values must be binary
- B. Predictors must be independent
- C. The relationship between predictors and the outcome is linear
- D. The target variable is unordered categorical

Answer: C

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