



# Python Institute

## PCAD Exam

Python Institute Certified Associate Data Analyst with Python

Exam Latest Version: 6.0

## DEMO Version

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### Question 1. (Multi Select)

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

**Correct Answer: A, D**

### Question 2. (Single Select)

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

**Correct Answer: B**

### Question 3. (Single Select)

When analyzing a dataset of customer ages, you calculate the mean, median, and mode. What

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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

**Correct Answer: C**

#### Question 4. (Single Select)

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

**Correct Answer: A**

#### Question 5. (Single Select)

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]`

**Correct Answer: C**



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