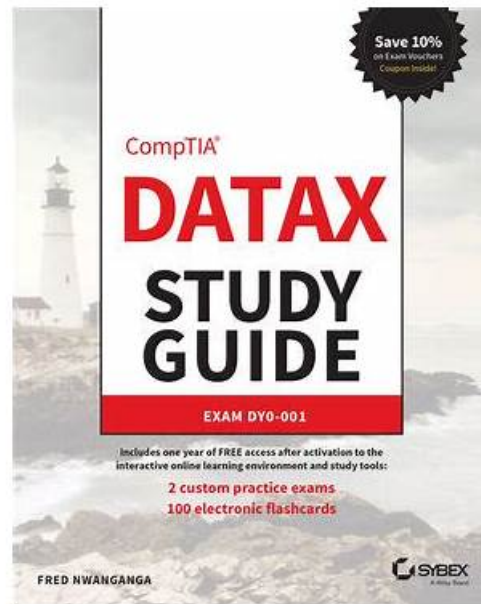


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CompTIA DataX Certification Exam Sample Questions (Q44-Q49):

NEW QUESTION # 44

Which of the following problem-solving approaches is a set of guidelines to handle highly variable and not fully apparent situations?

- A. Algorithm
- B. Plan
- C. Heuristic
- D. Schedule

Answer: C

Explanation:

Heuristics are informal rules or guidelines used to solve problems when full information is unavailable or when optimal solutions are computationally impractical. They are often used in complex decision-making and AI.

Why the other options are incorrect:

- * A: Schedule refers to timing, not problem-solving.
- * B: A plan is a formal structure, not flexible for uncertain conditions.
- * D: Algorithms are step-by-step procedures for defined problems - not suited for ambiguity.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 5.1: "Heuristics provide flexible guidance for solving problems with high uncertainty or limited data."

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NEW QUESTION # 45

Which of the following distributions would be best to use for hypothesis testing on a data set with 20 observations?

- A. Student's t-
- B. Power law
- C. Normal
- D. Uniform

Answer: A

Explanation:

For small sample sizes (typically $n < 30$), the Student's t-distribution is preferred over the normal distribution for hypothesis testing because it accounts for the added uncertainty in the estimate of the standard deviation. With 20 observations, the t-distribution is more appropriate and reliable.

Why the other options are incorrect:

- * A: Power law is used in modeling rare events or heavy-tailed distributions, not hypothesis testing.
- * B: The normal distribution is more appropriate when the sample size is large.
- * C: Uniform distribution assumes equal probability - not used in inferential statistics.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 1.3: "The t-distribution is used for small sample hypothesis testing where the population standard deviation is unknown."

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NEW QUESTION # 46

Which of the following is best solved with graph theory?

- A. Traveling salesman
- B. Fraud detection
- C. Optical character recognition
- D. One-armed bandit

Answer: A

Explanation:

The Traveling Salesman Problem (TSP) is a classic example in graph theory. It involves finding the shortest path that visits a set of nodes (cities) and returns to the starting point. Graph theory is used to model nodes (cities) and edges (paths between cities).

Why other options are incorrect:

- * A: OCR is a computer vision problem - best handled with CNNs or ML image models.
- * C: Fraud detection can involve graph-based approaches but is typically solved using anomaly detection or classification.
- * D: One-armed bandit is a reinforcement learning problem - not related to graph theory.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.4: "Graph theory is frequently used in routing and path optimization problems such as the Traveling Salesman."

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NEW QUESTION # 47

A data scientist is standardizing a large data set that contains website addresses. A specific string inside some of the web addresses needs to be extracted. Which of the following is the best method for extracting the desired string from the text data?

- A. Find and replace
- **B. Regular expressions**
- C. Named-entity recognition
- D. Large language model

Answer: B

Explanation:

Regular expressions (regex) are powerful tools for pattern matching in text. They are ideal for extracting substrings, such as domains, parameters, or specific keywords from URLs or structured text fields.

Why the other options are incorrect:

- * B: NER is used to extract named entities (like names, places) - not substrings in structured text.
- * C: LLMs are overkill and not efficient for simple string matching tasks.
- * D: Find and replace is manual and non-scalable for large data sets.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 6.3: "Regular expressions provide a flexible method to extract patterns and substrings in structured or semi-structured text."

* Data Cleaning Handbook, Chapter 3: "Regex is the most effective tool for parsing text formats like URLs, emails, or custom tags."

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NEW QUESTION # 48

A data scientist is attempting to identify sentences that are conceptually similar to each other within a set of text files. Which of the following is the best way to prepare the data set to accomplish this task after data ingestion?

- A. Extrapolation
- **B. Embeddings**
- C. Sampling
- D. One-hot encoding

Answer: B

Explanation:

Embeddings (e.g., word2vec, sentence transformers) are vector representations of text that capture semantic similarity. They allow comparison of conceptual meaning between sentences in a high-dimensional space, which is essential for tasks like semantic similarity or clustering.

Why the other options are incorrect:

- * B: Extrapolation predicts values beyond a dataset's range - not relevant here.
- * C: Sampling reduces data volume but doesn't aid in similarity analysis.
- * D: One-hot encoding captures presence of words but lacks semantic understanding.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 6.3: "Embeddings transform text into numeric vectors, enabling similarity computation and semantic analysis."

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NEW QUESTION # 49

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