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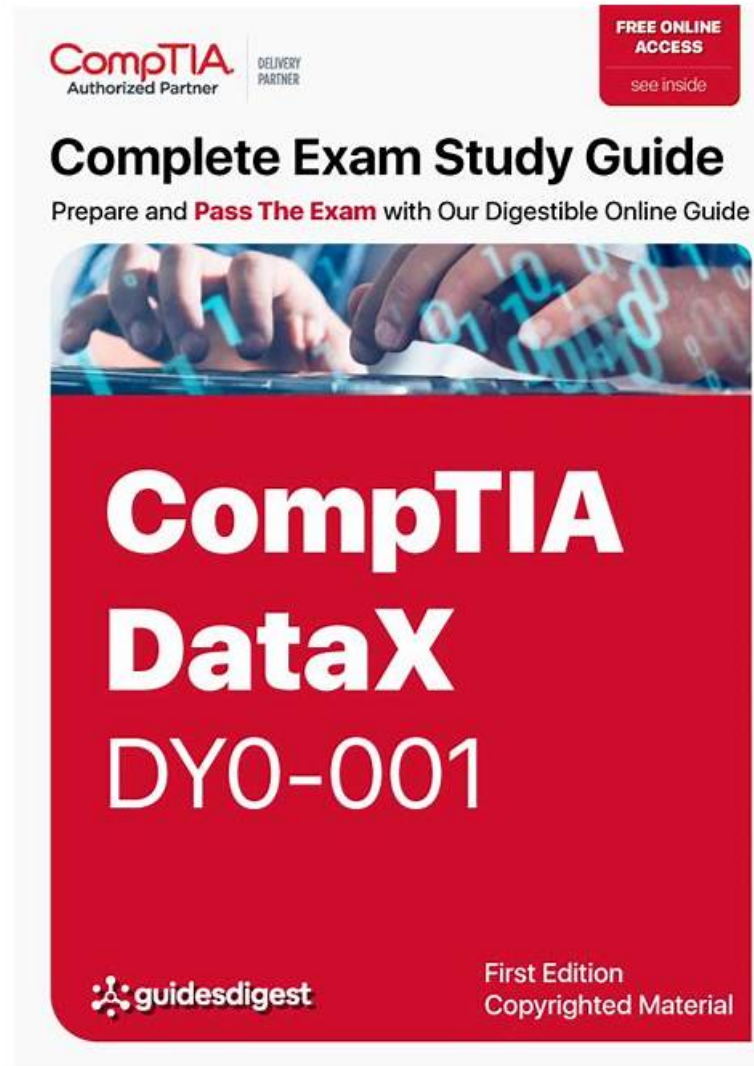
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CompTIA DataX Certification Exam Sample Questions (Q58-Q63):

NEW QUESTION # 58
A data scientist is working with a data set that covers a two-year period for a large number of machines. The data set contains:
* Machine system ID numbers
* Sensor measurement values
* Daily timestamps for each machine
The data scientist needs to plot the total measurements from all the machines over the entire time period.
Which of the following is the best way to present this data?

- A. Histogram
- B. Scatter plot
- C. Line plot
- D. Box-and-whisker plot

Answer: C

Explanation:
Line plots are ideal for visualizing data trends over continuous time. In this case, plotting the total daily measurements across a two-year period is a time series task, and a line plot shows progression and pattern over time clearly.
Why the other options are incorrect:
* A: Scatter plots are better for relationship exploration, not time trends.
* C: Histograms display distribution - not suitable for continuous time trends.
* D: Box plots show spread and outliers - not temporal behavior.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 1.2:"Use line plots for visualizing temporal trends in time-series data."
* Time Series Visualization Guide, Chapter 2:"Line plots are effective for showing cumulative or aggregated values over time."
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NEW QUESTION # 59
A data analyst wants to use compression on an analyzed data set and send it to a new destination for further processing. Which of the following issues will most likely occur?

- A. Operating system support will be missing.
- B. Library dependency will be missing.
- C. Server CPU usage will be too high.
- D. Server memory usage will be too high.

Answer: C

Explanation:
Compression is a CPU-intensive process because it requires encoding data into a smaller format, often involving complex algorithms. While memory use is usually moderate, CPU usage can spike significantly, especially during real-time compression or large dataset processing.
Why the other options are incorrect:
* A: Library issues are possible but not the most likely issue in compression.
* C: Most operating systems support common compression formats (e.g., .zip, .gz).
* D: Memory usage is generally lower than CPU usage during compression.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 5.4:"Compression is compute-intensive and may result in increased CPU utilization, particularly on shared servers or during large batch processes."
* Cloud Data Engineering Guide, Chapter 9:"High CPU usage is a common bottleneck in data compression and decompression processes, especially at scale."
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NEW QUESTION # 60

Which of the following environmental changes is most likely to resolve a memory constraint error when running a complex model using distributed computing?

- A. Moving model processing to an edge deployment
- B. Adding nodes to a cluster deployment
- C. Converting an on-premises deployment to a containerized deployment
- D. Migrating to a cloud deployment

Answer: B

Explanation:

When running a model on a distributed system, encountering memory constraint errors indicates that the current nodes in the cluster do not have enough memory to handle the model. The most scalable and immediate solution is:

Adding Nodes to a Cluster Deployment - This increases the total available memory and compute power. In distributed computing environments like Apache Spark or Hadoop, horizontal scaling via node addition is a standard remedy for resource bottlenecks, including memory limitations.

Why the other options are incorrect:

* A. Containerizing doesn't inherently solve memory issues unless paired with resource upgrades.

* B. Cloud migration may offer more resources, but without scaling configuration, memory limits may persist.

* C. Edge deployment is for low-latency, local processing - often with less memory, not more.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 5.2 (Infrastructure & Scaling):"To resolve memory limitations in distributed systems, scaling out by adding nodes is the most direct and cost- effective method."

* Data Engineering Fundamentals (Cloud/Distributed Systems):"Cluster resource constraints (e.g., memory) can be mitigated by increasing node count, enabling parallel execution and expanded memory pools."

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NEW QUESTION # 61

A data scientist is deploying a model that needs to be accessed by multiple departments with minimal development effort by the departments. Which of the following APIs would be best for the data scientist to use?

- A. RPC
- B. JSON
- C. REST
- D. SOAP

Answer: C

Explanation:

REST (Representational State Transfer) is a web-based API style that is widely adopted for its simplicity, scalability, and use of standard HTTP methods (GET, POST, PUT, DELETE). It is stateless and can be consumed easily by multiple systems and departments with minimal integration work.

Why the other options are incorrect:

* A: SOAP is heavy, XML-based, and requires more development overhead.

* B: RPC is lower-level and not well-suited for scalable, modern web services.

* C: JSON is a data format, not an API protocol.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 5.4 (API and Model Deployment):"REST APIs are preferred for exposing models to various consumers due to their simplicity, platform-agnostic nature, and use of standard HTTP."

* Data Engineering Design Patterns, Section 6:"RESTful services enable easy integration of machine learning models with front-end and enterprise systems." RESTful APIs use standard HTTP methods and lightweight data formats (typically JSON), making them easy for diverse teams to integrate with minimal effort and without heavy tooling.

NEW QUESTION # 62

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

Answer: A

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 # 63

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