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CompTIA DataX Certification Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18
Which of the following JOINS would generate the largest amount of data?

- A. INNER JOIN

- **B. CROSS JOIN**
- C. RIGHT JOIN
- D. LEFT JOIN

Answer: B

Explanation:
A CROSS JOIN returns the Cartesian product of the two tables - meaning every row from the first table is paired with every row from the second table. If Table A has m rows and Table B has n rows, a CROSS JOIN will return m × n rows, making it the largest possible result set of all JOIN types.
Why the other options are incorrect:
* A & B: RIGHT JOIN and LEFT JOIN return matched records plus unmatched rows from one side - but not all possible combinations.
* D: INNER JOIN returns only matched rows between tables, typically producing fewer records than a CROSS JOIN.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 5.2:"CROSS JOINs generate the Cartesian product of two datasets and should be used carefully due to the exponential growth in the number of records."
* SQL for Data Scientists, Chapter 3:"CROSS JOINs can produce very large datasets, often unintentionally, due to their non-restrictive matching logic."
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NEW QUESTION # 19
A data scientist is building a forecasting model for the price of copper. The only input in this model is the daily price of copper for the last ten years. Which of the following forecasting techniques is the most appropriate for the data scientist to use?

- A. Moving average
- **B. Autoregressive**
- C. Dynamic time warping
- D. Relative strength

Answer: B

Explanation:
An Autoregressive (AR) model is ideal when past values of a time series are used to predict future values.
Since the only input is historical price data of copper, AR is the most appropriate technique.
Why the other options are incorrect:
* B: Moving average smooths noise but doesn't model the dependencies for prediction.
* C: Dynamic time warping is used for measuring similarity between time series, not forecasting.
* D: Relative strength is a financial metric used for comparing asset performance - not a forecasting technique.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 3.5:"Autoregressive models are used when the goal is to predict future values based solely on past values in a univariate time series."
* Time Series Analysis and Forecasting, Chapter 5:"AR models capture the temporal dependencies in time series data and are foundational in time-based prediction."
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NEW QUESTION # 20
A data scientist is presenting the recommendations from a monthslong modeling and experiment process to the company's Chief Executive Officer. Which of the following is the best set of artifacts to include in the presentation?

- A. Methods, data overview, results, recommendations, and charts
- B. Methodology, code snippets, findings, data tables, and p-values
- **C. Results, recommendations, justifications, and clear charts**
- D. Recommendation, charts, justifications, code reviews, and results

Answer: C

Explanation:
For executive-level presentations, the focus should be on strategic outcomes. Therefore, concise results, clear actionable

recommendations, visual summaries (charts), and minimal justifications are best. Technical details such as p-values, code, or full methods are too granular.
Why the other options are incorrect:
* A: Too method-heavy for executive audiences.
* C: Includes code reviews - not suitable for a CEO.
* D: Overly technical for high-level stakeholders.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 5.5:"Executive communication should focus on outcome-driven recommendations, high-level insights, and actionable visuals."
* Harvard Business Review - Communicating Data to Executives:"Avoid technical detail. Use visuals and clearly stated recommendations supported by business-focused justifications."

NEW QUESTION # 21

Which of the following types of machine learning is a GPU most commonly used for?

- A. Tree-based
- B. Deep learning/neural networks
- C. Natural language processing
- D. Clustering

Answer: B

Explanation:
GPUs (Graphics Processing Units) are optimized for parallel computations, which are essential for training deep neural networks. These models involve massive matrix operations across multiple layers, making GPUs significantly faster than CPUs in deep learning tasks.
Why the other options are incorrect:
* B: Clustering (e.g., k-means) can benefit from acceleration but doesn't usually require GPU-level computation.
* C: NLP tasks may use GPUs if they involve deep learning (e.g., transformers), but the correct choice is the model type.
* D: Tree-based models (e.g., decision trees, random forests) typically run efficiently on CPUs.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 4.3:"Deep learning models, such as neural networks, are computationally intensive and commonly require GPUs for efficient training."
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NEW QUESTION # 22

A data analyst wants to save a newly analyzed data set to a local storage option. The data set must meet the following requirements:
* Be minimal in size
* Have the ability to be ingested quickly
* Have the associated schema, including data types, stored with it
Which of the following file types is the best to use?

- A. XML
- B. JSON
- C. CSV
- D. Parquet

Answer: D

Explanation:
Given the requirements:
* Minimized file size
* Fast ingestion
* Schema preservation (including data types)
The most appropriate format is:
Parquet - It is a columnar storage file format developed for efficient data processing. Parquet files are compressed, support schema embedding, and enable fast columnar reads, making them ideal for analytical workloads and big data environments.
Why the other options are incorrect:
* A. JSON: Text-heavy and lacks native support for data types/schema.

* C. XML: Verbose and has poor performance in storage and ingestion speed.
* D. CSV: Flat structure, doesn't store data types or schema, and can be large in size.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 6.2 (Data Storage Formats):"Parquet is a preferred format for data analysis as it provides efficient compression and encoding with embedded schema information, making it ideal for minimal storage and fast ingestion."
* Apache Parquet Documentation:"Parquet is designed for efficient data storage and retrieval. It includes schema support and works best for analytics use cases." Parquet is a columnar storage format that automatically includes schema (data types), uses efficient compression to minimize file size, and enables very fast reads for analytic workloads.

NEW QUESTION # 23

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