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CompTIA DataX Certification Exam Sample Questions (Q79-Q84):

NEW QUESTION # 79

A movie production company would like to find the actors appearing in its top movies using data from the tables below. The resulting data must show all movies in Table 1, enriched with actors listed in Table 2.

ID	Movie	Year
1	Movie 1	2000
2	Movie 2	2010
3	Movie 3	2015
4	Movie 4	1990

ID	Actor	Acted_In
10	Smith	Movie 3
11	Johnson	Movie 5
30	Taylor	Movie 1
50	Smith	Movie 7

Which of the following query operations achieves the desired data set?

- A. Perform a UNION between Table 1 using column Movie, and Table 2 using column Acted_In.
- **B. Perform a LEFT JOIN on Table 1 using column Movie, with Table 2 using column Acted_In.**
- C. Perform an INTERSECT between Table 1 using column Movie, and Table 2 using column Acted_In.
- D. Perform an INNER JOIN between Table 1 using column Movie, and Table 2 using column Acted_In.

Answer: B

Explanation:

A LEFT JOIN ensures all rows from Table 1 (Top Movies) are preserved, even if there's no matching actor data in Table 2. This matches the requirement to show all movies, enriched with actor information when available.

Why the other options are incorrect:

- * A: INNER JOIN would exclude movies without matching actor entries.
- * B: UNION combines distinct rows - not appropriate for matching columns between two tables.
- * C: INTERSECT shows only common movies - excludes unmatched top movies.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 5.2: "LEFT JOINS are used when all records from one table (primary) must be retained, even if there are no matching rows in the secondary table."

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NEW QUESTION # 80

Which of the following measures would a data scientist most likely use to calculate the similarity of two text strings?

- **A. Edit distance**
- B. k-nearest neighbors
- C. String indexing
- D. Word cloud

Answer: A

Explanation:

Edit distance (also known as Levenshtein distance) measures how many single-character edits (insertions, deletions, or substitutions) are needed to transform one string into another. It's a common metric for assessing string similarity, especially in natural

language processing (NLP) tasks.

Why the other options are incorrect:

- * A: Word clouds visualize word frequency, not similarity.
- * C: String indexing is a method for referencing string positions, not comparison.
- * D: k-NN is a classification algorithm, not a string similarity measure.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 6.3: "Edit distance is a key similarity metric in text comparison tasks, particularly in cleaning or matching string records."

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NEW QUESTION # 81

Which of the following is the layer that is responsible for the depth in deep learning?

- A. Dropout
- B. Pooling
- C. Hidden
- D. Convolution

Answer: C

Explanation:

In deep learning, the term "depth" refers to the number of layers between the input and output. These intermediate layers are called hidden layers because their outputs are not directly observed.

Hidden layers are where the network learns hierarchical features. As more hidden layers are added, the model becomes deeper, allowing it to learn more complex patterns and representations from the data.

Why the other options are incorrect:

- * A. Convolution: This is a specific type of operation applied in convolutional neural networks (CNNs) but is not the general source of model depth.
- * B. Dropout: A regularization technique used to prevent overfitting; it doesn't contribute to the model's depth.
- * C. Pooling: Reduces the dimensionality of feature maps; not responsible for the depth of the network.

Exact Extract and Official References:

* CompTIA DataX (DY0-001) Official Study Guide, Domain: Machine Learning

"In deep neural networks, hidden layers represent the model's depth. Each hidden layer allows the network to learn more abstract and high-level features." (Section 4.3, Deep Learning Fundamentals)

* Deep Learning Textbook by Ian Goodfellow, Yoshua Bengio, and Aaron Courville:

"Depth in deep learning refers to the number of hidden layers in the network. Each hidden layer extracts increasingly abstract features of the input data." (Chapter 6, Feedforward Deep Networks)

NEW QUESTION # 82

Which of the following methods should a data scientist use just before switching to a potential replacement model?

- A. Performance monitoring
- B. CI/CD
- C. Containerization
- D. A/B testing

Answer: D

Explanation:

A/B testing allows a controlled experiment comparing the performance of two models - the current (A) vs. the candidate (B) - on live data. It's an industry best practice to validate real-world behavior before full replacement.

Why the other options are incorrect:

- * B: Performance monitoring helps detect drift but doesn't directly compare models.
- * C: CI/CD automates deployment but doesn't evaluate performance differences.
- * D: Containerization packages the model but doesn't test it comparatively.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 5.5: "A/B testing is a recommended approach to validate model performance before switching versions in production."

* ML System Operations Guide, Chapter 6: "Use A/B testing to ensure new models outperform baselines before full rollout."

NEW QUESTION # 83

A data scientist is analyzing a data set with categorical features and would like to make those features more useful when building a model. Which of the following data transformation techniques should the data scientist use? (Choose two.)

- A. Linearization
- B. One-hot encoding
- C. Label encoding
- D. Scaling
- E. Pivoting
- F. Normalization

Answer: B,C

Explanation:

Categorical variables must be transformed into numerical form for most machine learning models. Two standard approaches:

* One-hot encoding: Converts each category into a separate binary column (useful for nominal variables).

* Label encoding: Converts categories into integers (useful for ordinal or tree-based models).

Why other options are incorrect:

* A & E: Normalization and scaling are used for continuous variables, not categorical.

* C: Linearization refers to transforming relationships, not categorical conversion.

* F: Pivoting rearranges data structure but doesn't encode categories.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.3: "Label encoding and one-hot encoding are common transformations applied to categorical variables to enable model compatibility."

NEW QUESTION # 84

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