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DASCA Senior Data Scientist Sample Questions (Q45-Q50):

NEW QUESTION # 45

Which of the following can visualize variations in the base data, which can be used to identify outliers in the data for further investigation?

- A. Trend Analysis
- B. Histogram
- C. Scatter Plot
- D. None of the above
- E. Box Plots

Answer: E

Explanation:

Box plots (or Whisker plots) are statistical graphics that represent data distribution through: Minimum, First Quartile (Q1), Median, Third Quartile (Q3), and Maximum. Outliers are plotted as individual points beyond the whiskers.

This makes them particularly powerful for:

Identifying outliers in data.

Comparing distributions across categories.

Understanding variability in data.

Option A (Trend Analysis): Shows temporal patterns, not individual outliers.

Option C (Histogram): Shows frequency distribution but does not explicitly highlight outliers.

Option D (Scatter Plot): Shows relationships between variables but doesn't focus on statistical outliers in one distribution.

Thus, the correct answer is Option B (Box Plots).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Visualization Tools: Box Plots for Outlier Detection.

NEW QUESTION # 46

What is TRUE for "rehashing"?

- A. Allocate a new, larger hash table in memory
- B. Key/value pairs from the original table can be inserted into the new, larger one
- C. It requires a new hash function, which maps values into a larger range of integers
- **D. All of the above**
- E. Both A and B

Answer: D

Explanation:

Rehashing is a technique used in dynamic hash tables when the load factor (ratio of entries to bucket size) exceeds a certain threshold. It ensures efficient lookup, insertion, and deletion operations.

Option A (Correct): A larger hash table is allocated in memory to accommodate more entries.

Option B (Correct): A new hash function is typically required to map keys into the expanded table range.

Option C (Correct): All key-value pairs from the old table are re-inserted (rehashed) into the new table using the new hash function.

Since all three conditions (A, B, and C) are true, the best choice is Option E (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Programming for Data Science: Data Structures & Hashing Techniques

NEW QUESTION # 47

Which of the following is TRUE for data lake?

- A. The data lake can make both of the Business Intelligence and Data Science environments less agile and more productive
- **B. The data lake enables organizations to treat data as an organizational asset to be gathered and nurtured versus a cost to be minimized**
- **C. The data lake can make both of the Business Intelligence and Data Science environments more agile and more productive**
- D. None of the above
- **E. The data lake enables organizations to gather, manage, enrich, and analyze many new sources of data, whether structured or unstructured**

Answer: B,C,E

Explanation:

But per MCQ single-choice format # answer: A (though ideally A, B, C are correct).

A data lake is a centralized repository designed to store raw, structured, semi-structured, and unstructured data at scale. It provides: Agility and productivity (Option A): Data lakes support flexible ingestion and faster access, making BI and data science environments more efficient.

Data integration (Option B): They handle multiple types of data, enabling advanced analytics and machine learning use cases.

Data as an asset (Option C): They shift perspective, treating data as a strategic resource, not just a storage cost.

Option D: Incorrect. Data lakes improve agility, not reduce it.

Option E: Incorrect, since multiple true statements exist.

Thus, the correct choice per DASCA context is Option A (with B and C also being true).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Engineering: Data Lakes vs Warehouses.

NEW QUESTION # 48

Semi-structured data does NOT include:

- A. Database system
- **B. Schema-full data**
- C. File systems
- D. Scientific data

Answer: B

NEW QUESTION # 49

Which of the following is NOT a main data container in Python?

- **A. LinkedList**
- B. Dict
- C. Tuples
- D. Lists

Answer: A

Explanation:

Python's built-in data containers are widely used in data science and programming:

Lists (Option A): Ordered, mutable sequences.

Tuples (Option B): Ordered, immutable sequences.

Dict (Option D): Dictionaries, key-value data structures implemented using hash tables.

LinkedList (Option C): Python does not provide a native linked list as a built-in container. While linked lists can be implemented manually or through external libraries (e.g., `collections.deque` for efficient appends /pops), they are not part of Python's main native containers.

Thus, the correct answer is Option C (LinkedList).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Programming for Data Science: Python Data Structures.

NEW QUESTION # 50

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