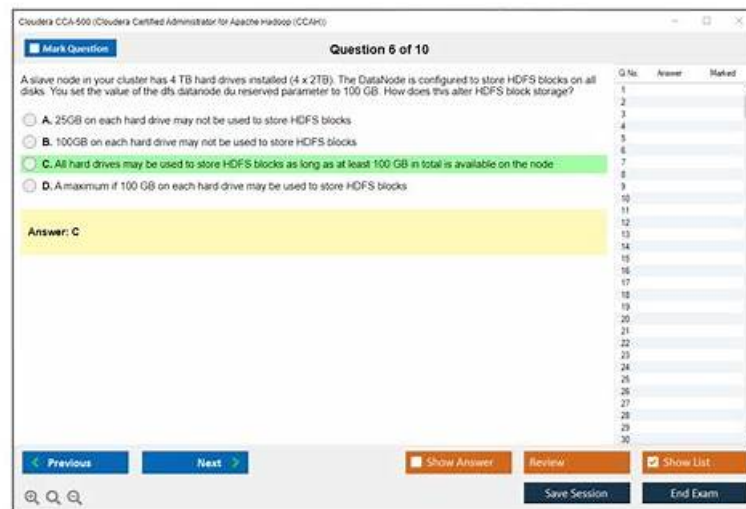


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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q132-Q137):

NEW QUESTION # 132

You are working with a complex Spark application involving multiple stages, and you want to ensure that later stages only start processing after all data from the previous stage is complete. How can you achieve this dependency management in Spark?

- A. Rely on Spark's lineage tracking and stage boundaries to enforce dependencies
- B. Use explicit persist() calls with different storage levels for each stage
- C. Leverage Spark Streaming concepts like micro-batching for real-time data processing
- D. Implement custom logic with synchronization mechanisms between stages

Answer: A,C

Explanation:

Spark automatically tracks lineages and defines stages based on your code. This allows Spark to manage dependencies efficiently B.

You don't need explicit `persist()` calls for each stage or custom synchronization (a, C.. Spark Streaming concepts D are relevant for real-time processing scenarios, not dependency management in batch processing. A combination of techniques can significantly improve Spark application performance. Increasing executors A can help, but it's not the sole solution. Vectorized operations B use optimized instructions for faster data processing. Caching intermediate results C reduces redundant computations. Combining these strategies leverages Spark's capabilities effectively and optimizes processing, especially for complex transformations.

NEW QUESTION # 133

You're working with a Spark application that processes streaming data in real-time. How does Spark handle persistence in this context?

- A. Spark leverages micro-batching and checkpointing for persistence in streaming applications
- B. Spark uses the same persistence mechanisms as batch processing for streaming data
- C. Streaming data cannot be persisted due to its continuous nature
- D. Streaming data is automatically persisted to HDFS for historical analysis

Answer: A

Explanation:

Unlike batch processing A, streaming data is continuous. Spark utilizes micro-batching C to break down the stream into small, manageable batches, allowing for persistence techniques like `updateStateByKey` or `checkpoint` to be applied within these batches. Option B is incorrect as persistence is possible, and D is not always the case.

NEW QUESTION # 134

What is a potential drawback of improperly configured bucketing in Hive that could negate performance benefits?

- A. Mandatory manual intervention for each query execution
- B. Increased risk of data loss due to bucket corruption
- C. Automatic conversion of bucketed tables to non-bucketed tables
- D. Skewed data distribution leading to uneven load across nodes

Answer: D

Explanation:

A potential drawback of improperly configured bucketing in Hive is skewed data distribution, which can lead to an uneven load across nodes. If the bucketing column or the number of buckets is not chosen carefully, it may result in certain buckets being significantly larger than others. This imbalance can negate the performance benefits of bucketing by causing some nodes to do much more work than others, leading to bottlenecks and inefficient resource utilization during data processing tasks.

NEW QUESTION # 135

You need to create a new Hive table from a Spark DataFrame. What are the different approaches you can consider?

- A. Convert the DataFrame to a temporary table and then use HiveQL commands to create a permanent table
- B. All of the above
- C. Directly write the DataFrame to a directory in HDFS and define a corresponding Hive table schema
- D. Use the `DataFrame.write.saveAsTable("table_name")` method with appropriate options

Answer: B

Explanation:

While each option offers a way to create a Hive table from a Spark DataFrame, they provide different levels of control and convenience. Option A requires manual schema definition, while B offers a concise approach with configuration options. Option C might be useful for specific scenarios, but B is generally preferred.

NEW QUESTION # 136

In the context of caching data for reuse in Spark, how does the Tungsten project contribute to enhancing memory management and

execution efficiency?

- A. By rewriting Spark operations in a lower-level language for direct memory access
- B. By providing a graphical interface for memory management
- C. By enforcing strict data typing to reduce runtime type checking overhead
- **D. By optimizing Spark's internal memory management and data processing operations**

Answer: D

Explanation:

The Tungsten project contributes to enhancing memory management and execution efficiency in Spark by optimizing Spark's internal memory management and data processing operations. Tungsten introduces binary in-memory data representation and explicit control over memory allocation, reducing the overhead associated with garbage collection and improving cache efficiency. This optimization supports more efficient execution of operations and better utilization of system resources, particularly for tasks involving large datasets and complex computations.

NEW QUESTION # 137

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