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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q177-Q182):

NEW QUESTION # 177

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 optimizing Spark's internal memory management and data processing operations
- C. By enforcing strict data typing to reduce runtime type checking overhead
- D. By providing a graphical interface for memory management

Answer: B

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 # 178
Your Spark application encounters frequent failures during the execution of a specific stage. How can you utilize Spark's persistence mechanisms to improve the application's fault tolerance?

- A. Leverage Spark's checkpointing functionality to save application state periodically
- B. Implement custom retry logic within the failing stage
- C. Persist the RDDs used in the failing stage with MEMORY_ONLY storage level
- D. Increase the number of Spark executors to handle potential resource limitations

Answer: A

Explanation:
While custom retry logic A might help, it can be complex and error-prone. MEMORY_ONLY persistence B might not be reliable in case of node failures. Checkpointing C allows Spark to resume execution from the latest checkpoint after a failure, avoiding complete re-computation and improving fault tolerance. Increasing executors D might not address the specific issue of stage failures.

NEW QUESTION # 179
Which technique in the Optimization Framework is primarily used to improve query performance by reducing the number of rows to be scanned in a table?

- A. Data replication
- B. Data compaction
- C. Predicate pushdown
- D. Indexing

Answer: C

Explanation:
Predicate pushdown is an optimization technique that moves the filter processing closer to the data source, allowing the engine to eliminate unnecessary data rows early in the data processing phase. This reduces the volume of data that needs to be loaded and processed by subsequent stages of the query.

NEW QUESTION # 180
How can you implement a data quality check in Apache Airflow that verifies the row count of a table does not decrease from the previous DAG run?

- A. Use the BranchPythonOperator to branch the workflow based on the row count comparison logic.
- B. Implement a custom SqlSensor that checks the row count against a stored value in XComs.
- C. Store the row count from the previous run in Airflow Variables and compare it using a Pythonoperator.
- D. Utilize the PreviousDagRunSensor with a custom Python function for comparison.

Answer: C

Explanation:
By storing the row count from the previous DAG run in Airflow Variables, you can then use a Pythonoperator to retrieve this value and compare it against the current row count. This method allows for a flexible and dynamic approach to monitoring table row counts over time, ensuring data consistency and alerting to potential data loss or anomalies.

NEW QUESTION # 181
In Spark, what is the advantage of using the 'coalesce' method over the 'repartition' method when reducing the number of partitions in an RDD?

- A. 'coalesce' reduces the number of partitions without a full data shuffle, enhancing performance.
- B. 'coalesce' can increase the number of partitions without shuffling.
- C. 'repartition' is incapable of reducing the number of partitions.
- D. 'coalesce' triggers a full shuffle of the data, improving data distribution.

Answer: A

Explanation:
The 'coalesce' method is used to decrease the number of partitions in an RDD, and it does so without performing a full shuffle of the data. This makes it more efficient than 'repartition' for reducing the number of partitions because 'repartition' involves a full shuffle, which is more costly in terms of performance. 'coalesce' is particularly useful for optimization after filtering down a large dataset. Option A is incorrect as 'coalesce' is specifically designed for reducing partitions. Option B describes 'repartition', and Option D is factually incorrect.

NEW QUESTION # 182
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