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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q154-Q159):

NEW QUESTION # 154

Your Airflow DAG performs data quality checks that involve complex data transformations and aggregations. How can you ensure these checks are executed efficiently and don't impact the performance of the entire pipeline?

- A. Utilize libraries like Pandas or Spark for data manipulation within the PythonOperator, leveraging optimization features where available.
- B. Offload complex data processing tasks to separate DAGs designed specifically for data preparation.
- C. Use Airflow's built-in data manipulation operators like SQLExecuteOperator for basic checks, avoiding complex transformations.
- D. Implement the data transformations and aggregations directly within the checking logic, regardless of efficiency.

Answer: A,B

NEW QUESTION # 155

You're tasked with optimizing an existing Airflow DAG that processes large datasets daily. The DAG has multiple tasks, some of which frequently fail due to memory constraints on the worker nodes. Which approach would best mitigate this issue without upgrading hardware?

- A. Split the DAG into multiple smaller DAGs to reduce the load on workers.
- B. Implement the Retry operator to automatically retry failed tasks.
- C. Use the Pool feature to limit the number of concurrent memory-intensive tasks.
- D. Increase the priority_weight of memory-intensive tasks to ensure they run first.

Answer: C

Explanation:

The Pool feature in Airflow allows you to limit the number of tasks running concurrently in a given pool of resources, which can help manage memory usage and prevent workers from being overwhelmed by memory-intensive tasks. By assigning memory-intensive tasks to a pool with a limited number of slots, you ensure that only a certain number of these tasks can execute at the same time, thereby managing the overall memory consumption on worker nodes. Increasing priority_weight affects task scheduling order but does not manage resource constraints, retrying tasks does not address the root cause of memory issues, and splitting the DAG might help organizational clarity but does not directly address concurrent memory usage.

NEW QUESTION # 156

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

Answer: B

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 # 157

How can you dynamically generate tasks in Apache Airflow?

- A. By using the Jinja templating engine
- B. By using Python loops to create tasks during DAG parsing
- C. By defining a Python function inside the DAG file
- D. By using the Variable feature to store dynamic configurations

Answer: B

Explanation:

You can dynamically generate tasks in Apache Airflow by using Python loops within the DAG definition file. This allows for the programmatic creation of tasks based on dynamic inputs or configurations. While Jinja templating, Python functions, and Variables can influence task behavior and configurations, the direct method for dynamically generating tasks is through Python loops during DAG parsing.

NEW QUESTION # 158

What does setting the Spark configuration parameter 'spark.sql.shuffle.partitions' impact?

A The default level of parallelism for joins and aggregations

- A. The compression codec used for shuffle files
- B. The memory allocation for executor instances
- C. The serialization format of data

Answer: C

Explanation:

The 'spark.sql.shuffle.partitions' configuration parameter sets the number of partitions to use when shuffling data for joins or aggregations, which directly impacts the level of parallelism and the performance of these operations. A high number of partitions can lead to smaller tasks, potentially improving parallelism but at the cost of increased scheduling overhead. Conversely, too few partitions can lead to fewer, larger tasks, possibly causing out-of-memory errors or underutilizing the cluster.

NEW QUESTION # 159

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