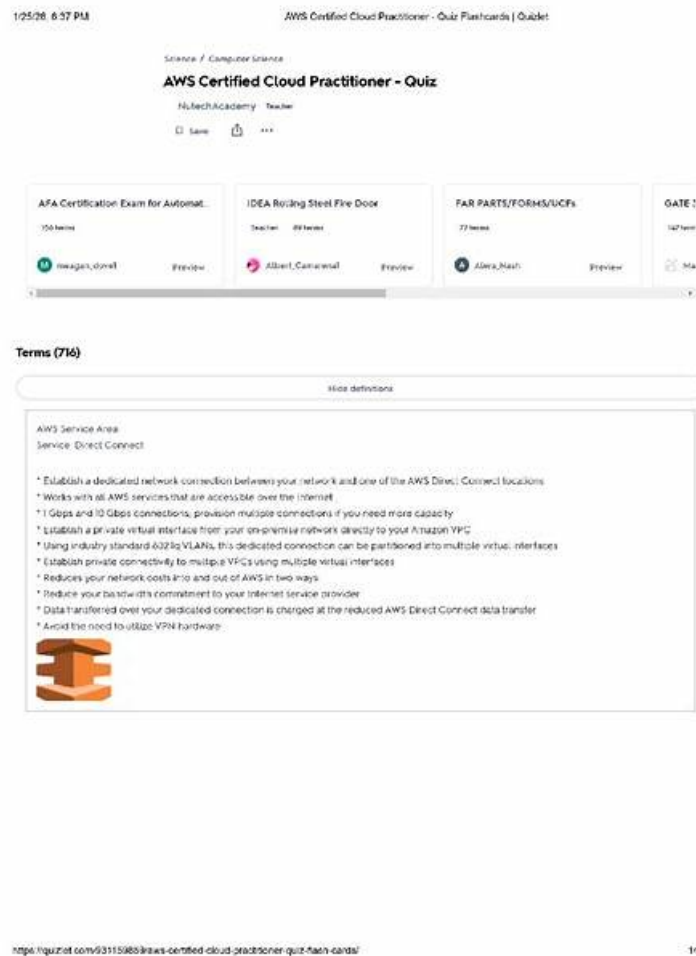


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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q317-Q322):

NEW QUESTION # 317

Which Spark configuration parameter should be increased to improve performance when dealing with large broadcast variables?

- A. `spark.driver.memory`
- B. `spark.broadcast.blockSize`
- C. `spark.executor.memory`
- D. `spark.default.parallelism`

Answer: A

Explanation:

When using large broadcast variables, increasing the `spark.driver.memory` is beneficial because the driver needs sufficient memory to store the broadcast variables before they are sent to executors. Broadcast variables are sent from the driver to all executors, and having insufficient driver memory could lead to out-of-memory errors or performance bottlenecks. `spark.executor.memory` affects executor memory size, `spark.broadcast.blockSize` is not a valid Spark configuration parameter, and `spark.default.parallelism` affects the default number of partitions in RDDs, but not the handling of broadcast variables.

NEW QUESTION # 318

Which of the following best describes the benefit of partition pruning in Spark SQL?

- A. It selectively processes partitions that meet certain criteria, reducing I/O.
- B. It dynamically adjusts partition sizes based on the query execution plan.
- C. It decreases the amount of data shuffled during join operations.
- D. It increases the number of partitions to maximize parallelism.

Answer: A

Explanation:

Partition pruning is a performance optimization in Spark SQL that allows Spark to read only a subset of partitions from a DataFrame or table that meet certain criteria specified in the query. This significantly reduces the amount of data read from disk and processed, thereby decreasing I/O and improving query performance. Partition pruning is particularly effective for queries with filters that can be applied to partitioned columns. Options A and B describe different aspects of performance optimization but are not directly related to partition pruning. Option D suggests an adaptive behavior not specifically tied to the concept of partition pruning.

NEW QUESTION # 319

Which Airflow component is responsible for executing task instances in a distributed manner?

- A. Scheduler
- B. `Executor`
- C. Worker
- D. Webserver

Answer: B

Explanation:

The Executor in Apache Airflow is responsible for executing the tasks of a DAG. While the Scheduler decides when to run tasks based on their dependencies and schedule, the Executor actually runs the task code, potentially in a distributed manner across multiple workers.

NEW QUESTION # 320

How does partition pruning contribute to query performance in the Cloudera Data Platform?

- A. By removing unnecessary data replication
- **B. By selecting only relevant partitions for query execution**
- C. By increasing the number of partitions
- D. By encrypting data at rest

Answer: B

Explanation:

Partition pruning enhances query performance by allowing the engine to skip over partitions of the data that are not relevant to the query, thereby reducing the amount of data scanned and processed.

NEW QUESTION # 321

Your Spark application encounters performance issues when reading data from a large Hive table. What potential optimization techniques can you explore?

- A. Use a different file format for the Hive table, like CSV, for faster parsing
- **B. Leverage partition pruning to only read relevant data from the table**
- C. Implement custom data compression logic within Spark for improved storage efficiency
- D. Increase the number of Spark executors without further optimization

Answer: B

Explanation:

While increasing executors A might help, it's not the most targeted approach. Changing file format B might have downsides. Partition pruning C allows Spark to only access relevant data partitions based on the query, significantly reducing the amount of data scanned and improving efficiency. Custom compression D adds complexity and might not be the first optimization to consider.

NEW QUESTION # 322

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