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Cloudera CDP-500 Cloudera Administrator Cloud Certification Exam

**Questions & Answers PDF
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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q61-Q66):

NEW QUESTION # 61

Your ETL pipeline processes sensitive data

a. How can you ensure data security within Airflow?

- A. Store passwords and other sensitive data directly within your Airflow code.
- **B. Implement encryption for sensitive data at rest and in transit.**
- C. Grant everyone access to the Airflow web UI to monitor and manage the pipeline.
- D. Use environment variables to store sensitive credentials for accessing data sources.

Answer: B

Explanation:

Option C highlights the crucial security practice of encrypting sensitive data at rest (e.g., in databases) and in transit (e.g., during network communication). This protects confidential information from unauthorized access.

NEW QUESTION # 62

When would it be advantageous to use both partitioning and bucketing on a Hive table?

- A. When data security is a primary concern
- B. When managing small datasets to reduce complexity
- C. When data needs to be stored in a single file for archival purposes
- **D. When dealing with large datasets that require efficient querying and data sampling**

Answer: D

Explanation:

Using both partitioning and bucketing on a Hive table is advantageous when dealing with large datasets that require efficient querying and data management. Partitioning allows for segregating data into logical segments based on column values, reducing the data scanned during queries. Bucketing further divides each partition into more manageable chunks (buckets) based on a hash function of a column, which can improve performance for certain types of queries and enable more efficient data sampling and join operations.

NEW QUESTION # 63

What is the impact of setting the Spark configuration `spark.sql.autoBroadcastJoinThreshold` to -1?

- A. It increases the threshold for choosing which table to broadcast in a join, potentially improving join performance.
- B. It sets an unlimited threshold for broadcasting tables, which may cause out-of-memory errors.
- C. It automatically selects the optimal threshold for broadcasting based on the cluster's current workload.
- **D. It disables the broadcast join feature, forcing all joins to be shuffled joins.**

Answer: D

Explanation:

The `spark.sql.autoBroadcastJoinThreshold` configuration parameter in Spark specifies the maximum size (in bytes) of a table that can be broadcast to all worker nodes for a join. Setting this value to -1 effectively disables the broadcast join optimization, meaning that Spark will not attempt to broadcast any table regardless of its size. As a result, all joins will use the shuffle join mechanism, which can be less efficient for joining small tables. Options B, C, and D misinterpret the effect of setting the parameter to -1; it does not set an unlimited threshold, automatically adjust the threshold, or increase it to improve performance, but rather disables the broadcast join feature altogether.

NEW QUESTION # 64

When leveraging Spark's DataFrame API for caching, what implicit optimization does Spark perform to enhance processing efficiency?

- A. Inlining of functions to reduce the overhead of JVM method calls

- B. Automatic selection of the optimal storage level based on the DataFrame's size
- **C. Predicate pushdown and other logical optimizations before physical execution**
- D. Automatic conversion of all operations to map-reduce jobs

Answer: C

Explanation:

When leveraging Spark's DataFrame API, Spark performs several implicit optimizations, including predicate pushdown, where it moves filter operations closer to the data source, thereby reducing the amount of data shuffled or moved across the network. This optimization, part of the Catalyst optimizer's logical optimization phase, enhances processing efficiency by minimizing the data processed in subsequent stages of the query.

NEW QUESTION # 65

When deploying a Spark application on Cloudera Data Engineering (CDE) service managed on Kubernetes, which command would you use to specify resource requirements such as CPU and memory for the Spark executor?

- A. `kubectctl set resources deployment my-spark-app --limits=cpu=2 memory=4Gi`
- B. `cde job run --name my-spark-job --set spark.executor.memory=4g --set spark.executor.cores=2`
- C. `spark-submit --deploy-mode cluster --conf spark.kubernetes.executor.request.cores=2 --conf spark.kubernetes.executor.limit.memory=4g`
- **D. `cde spark submit --deploy-mode cluster --conf spark.kubernetes.executor.request.cores=2 --conf spark.kubernetes.executor.limit.memory=4g`**

Answer: D

Explanation:

When deploying a Spark application on CDE service, which is managed on Kubernetes, you would typically use the CDE CLI to submit and configure your Spark jobs. The correct command would involve the `cde spark submit` command along with `-conf` flags to specify configuration options such as executor memory and cores. This approach is tailored to the CDE environment, leveraging its CLI for configuration rather than directly interfacing with Kubernetes (`kubectl`) or using the generic `spark-submit` command.

NEW QUESTION # 66

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