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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q255-Q260):

NEW QUESTION # 255

You're working with a complex DataFrame containing nested structures (e.g., arrays of structs). How can you access and manipulate data within these nested structures?

- A. Directly access elements using their position within the nested structure
- B. Leverage Spark SQL's built-in functions like `explode` and `struct`
- C. Implement custom recursive functions to navigate through the nested structure
- D. Convert the nested data into a simpler format like a single-level DataFrame

Answer: B

Explanation:

While direct access A might work for simple cases, it's not flexible for complex structures. Custom functions C can be complex and error-prone.

Spark SQL provides functions like `explode` to flatten arrays and `struct` to create complex structures, allowing you to efficiently work with and manipulate nested data.

NEW QUESTION # 256

What is the role of a Spark driver in a distributed processing job?

- A. Stores and processes intermediate data
- B. Coordinates tasks across the cluster
- C. Manages communication between executors and workers
- D. Performs computations on individual data partitions

Answer: B

Explanation:

The driver program acts as the central entity, submitting jobs, scheduling tasks on executors, and managing dependencies between stages

NEW QUESTION # 257

Explain the role of Spark MLlib and its functionalities in building machine learning pipelines on Spark.

- A. It offers functionalities for data pre-processing, feature engineering, and model training within Spark.
- B. It allows integration with external machine learning libraries like TensorFlow or scikit-learn.
- C. It provides pre-built machine learning algorithms and tools for building and evaluating models on Spark.
- D. **Spark MLlib is a comprehensive library for machine learning tasks within Spark**

Answer: D

Explanation:

Spark MLlib is a comprehensive library for machine learning tasks within Spark, offering a wide range of algorithms, tools, and functionalities. It allows data pre-processing, feature engineering, model training, and evaluation, enabling users to build and deploy machine learning pipelines on Spark.

NEW QUESTION # 258

You're working with a Spark application that processes sensitive data

a. How can you ensure that persisted data remains secure even if accessed from unauthorized sources?

- A. Rely on Spark's lineage tracking to prevent unauthorized access
- B. **Encrypt the data before persisting it and decrypt it when needed**
- C. Implement custom access control mechanisms within your application
- D. No additional security measures are needed, as Spark handles data security

Answer: B

Explanation:

Spark does not inherently provide encryption for persisted data. A. Lineage tracking C helps track data flow but doesn't prevent unauthorized access. Implementing custom access control D can be complex. Encrypting data before persistence B ensures only authorized users with the decryption key can access the sensitive information.

NEW QUESTION # 259

What benefit does bucketing provide for join operations in Hive?

- A. It ensures data privacy by encrypting join keys.
- B. It allows for the join condition to be omitted in queries.
- C. It enables cross-database joins by default.
- D. **It can reduce the cost of joins by enabling map-side joins.**

Answer: D

Explanation:

Bucketing provides the benefit of reducing the cost of join operations in Hive by enabling map-side joins. If two tables are bucketed on the join column(s), Hive can perform the join operation on the map side, without requiring a reduce phase. This is because the

data is already organized in a way that ensures all the join keys are located in the corresponding buckets across the tables, significantly reducing the data shuffling and processing required to complete the join, thereby improving performance.

NEW QUESTION # 260

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