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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

NEW QUESTION # 260

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