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CDP Data Operator Certification Exam

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Page 1 of 9

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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q148-Q153):

NEW QUESTION # 148

You want to select specific columns from a Spark DataFrame and rename them. How can you achieve this in Spark SQL?

- A. Use the `select()` method with column names and aliases within parentheses
- B. Use Spark SQL's `ALTER TABLE` statement to modify the table schema
- C. Modify the original DataFrame schema directly
- D. Implement custom logic to iterate through the DataFrame and create a new one

Answer: A

Explanation:

Modifying the original schema B is not recommended as it can affect subsequent operations. Custom logic C is inefficient. Spark SQL's `select()` method A allows you to specify the columns and assign aliases for renaming, providing a concise and efficient way to achieve the desired outcome.

NEW QUESTION # 149

You're working with a large dataset containing nested JSON structures. How can you efficiently process this data using Spark, ensuring data integrity and avoiding excessive parsing overhead?

- A. Implement a custom parser for the specific JSON structure
- B. Leverage Spark SQL's built-in JSON support with appropriate schema definition
- C. Use generic string manipulation functions to extract data from JSON
- D. Convert the entire dataset to a single string and process it line by line

Answer: B

Explanation:

While options A and B are inefficient and error-prone, custom parsers D might be required for very specific formats. Spark SQL offers native JSON processing capabilities. Defining a schema allows for efficient parsing and data type conversion, ensuring data integrity and avoiding the need for manual parsing overhead.

NEW QUESTION # 150

You're building an Airflow DAG to extract data from a database table that is constantly updated. How can you implement incremental extraction to avoid processing the entire table each time the DAG runs?

- A. Implement a custom Python script to track the last processed record and use it to filter the data during subsequent runs.
- B. Leverage the Previous execution operator to access the execution date of the previous DAG run and use it as a filter in the extraction query.
- C. Configure the database connection to only retrieve newly added data.
- D. Use the File sensor to check for the presence of a new data file and trigger the DAG only when the file appears.

Answer: B

Explanation:

While other options might be applicable in certain scenarios, option B is the most common and efficient way to implement incremental extraction in Airflow for databases. The Previous execution operator allows you to access the execution date of the previous DAG run, which can be used as a filter in the extraction query to only retrieve data added or modified since the last run.

NEW QUESTION # 151

In a Kubernetes environment, how does Kubernetes ensure fault tolerance when a pod running a Spark task fails?

- A. Using a load balancer for master components
- **B. Through Pod Replication with ReplicaSets**
- C. By using a Standby Master setup
- D. By checkpointing RDDs

Answer: B

Explanation:

Kubernetes ensures fault tolerance through pod replication using ReplicaSets. If a pod fails, the ReplicaSet will automatically create a new pod to replace it, ensuring that the desired number of pod replicas are always running. This is crucial for maintaining application availability in Kubernetes.

NEW QUESTION # 152

You're working with a large dataset stored in multiple Parquet files across different HDFS directories. How can you efficiently load and process this data using Spark, ensuring data locality and minimizing shuffle operations?

- A. Use `spark.read.parquet("/path/to/data/")` with recursive directory listing
- B. Implement a custom function to read each Parquet file individually
- C. Directly load all files using `spark.read.parquet("/path/to/data/")`
- **D. Leverage Spark SQL catalogs and partition discovery**

Answer: D

Explanation:

While options A and B might work, they don't optimize locality or shuffle. Option C is inefficient. By defining the data location and schema in a Spark SQL catalog, Spark can automatically discover partitions and efficiently read data in parallel, minimizing shuffle across the network.

NEW QUESTION # 153

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