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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q135-Q140):

NEW QUESTION # 135

You're building an Airflow ETL pipeline that involves data validation checks. How can you integrate these checks into the pipeline and handle potential failures?

- A. Use the FailoverOperator to automatically skip downstream tasks if the validation check fails.
- B. Leverage XCom to share the validation results with downstream tasks for further processing.
- C. Implement the validation checks within custom Python operators and raise exceptions upon failure, triggering downstream tasks to handle the error.
- D. Configure the DAG to send email notifications upon validation failures for manual intervention.

Answer: C

Explanation:

Option A is the most appropriate approach for integrating data validation checks within the pipeline. By raising exceptions upon failure, you can control the flow of the DAG and trigger appropriate actions based on the validation results.

NEW QUESTION # 136

You're tasked with scheduling an ETL pipeline in Airflow that extracts data from a database, transforms it, and loads it into a data warehouse. How can you achieve this using Airflow operators?

- A. Leverage dedicated operators like PostgresHook for extraction, custom Python operators for transformation, and S3Hook for loading.
- B. Utilize Airflow's built-in ETL operators like BigQueryOperator or MySQLOperator (these operators are specific to certain data sources and not generally applicable for all ETL pipelines).
- C. Implement a single custom Python script containing the entire ETL logic and call it within a BashOperator.
- D. Use three separate Python operators for each stage (extract, transform, load) and chain them together in the DAG.

Answer: A

Explanation:

While custom Python scripts can be used, option B demonstrates the recommended approach of using dedicated operators for each stage in the ETL process. This improves code modularity, reusability, and maintainability.

NEW QUESTION # 137

What is the primary advantage of using Apache Spark for distributed processing compared to traditional single-node processing?

- A. Enhanced data security
- B. Improved data visualization capabilities
- C. Increased storage capacity
- D. Faster processing of large datasets

Answer: D

Explanation:

Spark leverages a cluster of machines to parallelize tasks, allowing it to process massive datasets significantly faster than a single machine.

NEW QUESTION # 138

You need to process data stored in AWS S3 using SparkSQL. Which of the following options correctly reads a JSON file stored in S3 into a DataFrame and performs a SQL query on it?

- A.

```
df = spark.read.json("s3://bucket-name/path/to/file.json"); df.createOrReplaceTempView("data"); spark.sql("SELECT * FROM data")
```

- B.

```
df = spark.read.json("s3a://bucket-name/path/to/file.json"); df.createOrReplaceTempView("data"); spark.sql("SELECT * FROM data")
```

- C.

```
df = spark.read.json("s3a://bucket-name/path/to/file.json"); spark.sql("SELECT * FROM df")
```

- D.

```
df = spark.read.format("json").load("s3://bucket-name/path/to/file.json"); df.createOrReplaceTempView("data"); spark.sql("SELECT * FROM data")
```

Answer: B

Explanation:

Option D is correct as it uses the 's3a' protocol to read the JSON file from AWS S3, creates a temporary view, and then performs a SQL query on the DataFrame.

NEW QUESTION # 139

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

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

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 # 140

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