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Cloudera CDP Data Engineer - Certification Exam Sample Questions (Q128-Q133):

NEW QUESTION # 128

You need to design your Airflow DAG for data quality checks to be easily monitored and visualized. How can you achieve this?

- A. Leverage Airflow's built-in metrics and monitoring features like the Airflow web UI to track check execution and results.
- B. All of the above
- C. Implement custom logic to send detailed logs about the check results to external monitoring tools.
- D. Utilize Airflow XCom to share the outcome of the checks (success/failure) with downstream tasks for further processing.

Answer: A,C,D

Explanation:

All options mentioned in D can be valuable for troubleshooting errors in data quality checks: Airflow UI: Task details page might display error messages or logs specific to the check. Airflow Logs: Scheduler and worker logs might provide additional context about the error and its origin. Custom Script Inspection: Examining the custom Python script used for the check can reveal potential errors within the logic itself.

NEW QUESTION # 129

What is a potential drawback of improperly configured bucketing in Hive that could negate performance benefits?

- A. Increased risk of data loss due to bucket corruption
- B. Mandatory manual intervention for each query execution
- C. Automatic conversion of bucketed tables to non-bucketed tables
- D. Skewed data distribution leading to uneven load across nodes

Answer: D

Explanation:

A potential drawback of improperly configured bucketing in Hive is skewed data distribution, which can lead to an uneven load across nodes. If the bucketing column or the number of buckets is not chosen carefully, it may result in certain buckets being significantly larger than others. This imbalance can negate the performance benefits of bucketing by causing some nodes to do much more work than others, leading to bottlenecks and inefficient resource utilization during data processing tasks.

NEW QUESTION # 130

You're working with a DataFrame containing customer data, including a "purchase_date" column. How can you calculate the average purchase amount per month for the past year?

- A. Use Spark SQL's MONTH function and AVG function with appropriate windowing
- B. Utilize Spark's machine learning library (MLlib) for time series analysis
- C. Convert the "purchase_date" column to a string and filter based on the year
- D. Loop through the DataFrame and group purchases by month, calculating the average manually

Answer: A

Explanation:

Spark SQL's windowing functions offer a powerful way to perform aggregations over specific time windows. Option A demonstrates this approach:

```
from pyspark.sql.functions import month, avg
# Assuming "purchase_date" is a timestamp column
df = df.withColumn("month", month(df["purchase_date"]))
# Filter for the past year (assuming current date is stored in a variable "current_date")
df_filtered = df.filter(df["purchase_date"].between(current_date - F.interval(1, "year"), current_date))
# Calculate average purchase amount per month
avg_purchase_df = df_filtered.groupBy("month").agg(avg("amount").alias("avg_purchase_amount"))
avg_purchase_df.show()
```

NEW QUESTION # 131

You need to optimize the performance of a Spark query that involves joining data from multiple Hive tables. What strategies can you employ to improve efficiency?

- A. Use broadcast joins for small tables involved in the join operation

- B. All of the above
- C. Pre-partition tables based on the join columns for faster data co-location
- D. Increase the number of Spark executors without any further optimization

Answer: B

Explanation:

A combination of strategies can significantly improve join performance. Increasing executors A can help, but it's not the sole solution. Broadcasting small tables B minimizes data movement. Pre-partitioning C ensures relevant data is on the same nodes, reducing network overhead. Combining these techniques provides the most optimal approach.

NEW QUESTION # 132

In Apache Airflow, how does the "catchup" parameter in a DAG definition influence the scheduling of DAG runs when backfilling data?

- A. It disables backfilling entirely, ensuring that only future DAG runs are executed.
- B. It limits the number of backfilled DAG runs to the most recent execution interval only.
- C. It forces Airflow to ignore the start_date and schedule the DAG run immediately.
- D. It enables backfilling, causing Airflow to schedule DAG runs for all intervals between the DAG's start_date and the current date.

Answer: D

Explanation:

The "catchup" parameter, when set to True (which is the default), tells Airflow to backfill DAG runs for all the intervals between the DAG's start_date and the current date or end_date if specified. Setting "catchup" to False prevents Airflow from performing this backfilling, causing it to schedule DAG runs only for intervals after the DAG's start_date that have not yet occurred.

NEW QUESTION # 133

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