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Databricks Certified Associate Developer for Apache Spark 3.5 - Python

Sample Questions (Q103-Q108):

NEW QUESTION # 103

What is the behavior for function `date_sub(start, days)` if a negative value is passed into the `days` parameter?

- A. The same start date will be returned
- **B. The number of days specified will be added to the start date**
- C. An error message of an invalid parameter will be returned
- D. The number of days specified will be removed from the start date

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The function `date_sub(start, days)` subtracts the number of days from the start date. If a negative number is passed, the behavior becomes a date addition.

Example:

```
SELECT date_sub('2024-05-01', -5)
```

```
-- Returns: 2024-05-06
```

So, a negative value effectively adds the absolute number of days to the date.

Reference: Spark SQL Functions # `date_sub()`

NEW QUESTION # 104

An engineer notices a significant increase in the job execution time during the execution of a Spark job. After some investigation, the engineer decides to check the logs produced by the Executors.

How should the engineer retrieve the Executor logs to diagnose performance issues in the Spark application?

- **A. Use the Spark UI to select the stage and view the executor logs directly from the stages tab.**
- B. Fetch the logs by running a Spark job with the `spark-sql` CLI tool.
- C. Use the command `spark-submit` with the `-verbose` flag to print the logs to the console.
- D. Locate the executor logs on the Spark master node, typically under the `/tmp` directory.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Spark UI is the standard and most effective way to inspect executor logs, task time, input size, and shuffles.

From the Databricks documentation:

"You can monitor job execution via the Spark Web UI. It includes detailed logs and metrics, including task-level execution time, shuffle reads/writes, and executor memory usage."

(Source: Databricks Spark Monitoring Guide) Option A is incorrect: logs are not guaranteed to be in `/tmp`, especially in cloud environments.

B). `-verbose` helps during job submission but doesn't give detailed executor logs.

D). `spark-sql` is a CLI tool for running queries, not for inspecting logs.

Hence, the correct method is using the Spark UI # Stages tab # Executor logs.

NEW QUESTION # 105

A data engineer is working with a large JSON dataset containing order information. The dataset is stored in a distributed file system and needs to be loaded into a Spark DataFrame for analysis. The data engineer wants to ensure that the schema is correctly defined and that the data is read efficiently.

Which approach should the data scientist use to efficiently load the JSON data into a Spark DataFrame with a predefined schema?

- A. Use `spark.read.json()` with the `inferSchema` option set to `true`
- B. Use `spark.read.json()` to load the data, then use `DataFrame.printSchema()` to view the inferred schema, and finally use `DataFrame.cast()` to modify column types.
- C. Use `spark.read.format("json").load()` and then use `DataFrame.withColumn()` to cast each column to the desired data type.
- **D. Define a StructType schema and use `spark.read.schema(predefinedSchema).json()` to load the data.**

Answer: D

Explanation:

The most efficient and correct approach is to define a schema using StructType and pass it to spark.read.schema(...). This avoids schema inference overhead and ensures proper data types are enforced during read.

Example:

```
from pyspark.sql.types import StructType, StructField, StringType, DoubleType
schema = StructType([ StructField("order_id",
StringType(), True), StructField("amount", DoubleType(), True),
```

```
...
```

```
])
```

```
df = spark.read.schema(schema).json("path/to/json")
```

- Source: Databricks Guide - Read JSON with predefined schema

NEW QUESTION # 106

A developer is running Spark SQL queries and notices underutilization of resources. Executors are idle, and the number of tasks per stage is low.

What should the developer do to improve cluster utilization?

- **A. Increase the value of spark.sql.shuffle.partitions**
- B. Enable dynamic resource allocation to scale resources as needed
- C. Reduce the value of spark.sql.shuffle.partitions
- D. Increase the size of the dataset to create more partitions

Answer: A

Explanation:

The number of tasks is controlled by the number of partitions. By default, spark.sql.shuffle.partitions is 200. If stages are showing very few tasks (less than total cores), you may not be leveraging full parallelism.

From the Spark tuning guide:

"To improve performance, especially for large clusters, increase spark.sql.shuffle.partitions to create more tasks and parallelism."

Thus:

A is correct: increasing shuffle partitions increases parallelism

B is wrong: it further reduces parallelism

C is invalid: increasing dataset size doesn't guarantee more partitions D is irrelevant to task count per stage Final answer: A

NEW QUESTION # 107

A Spark application is experiencing performance issues in client mode because the driver is resource- constrained.

How should this issue be resolved?

- A. Increase the driver memory on the client machine
- **B. Switch the deployment mode to cluster mode**
- C. Switch the deployment mode to local mode
- D. Add more executor instances to the cluster

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Spark's client mode, the driver runs on the local machine that submitted the job. If that machine is resource- constrained (e.g., low memory), performance degrades.

From the Spark documentation:

"In cluster mode, the driver runs inside the cluster, benefiting from cluster resources and scalability." Option A is incorrect - executors do not help the driver directly.

Option B might help short-term but does not scale.

Option C is correct - switching to cluster mode moves the driver to the cluster.

Option D (local mode) is for development/testing, not production.

Final Answer: C

NEW QUESTION # 108

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