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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q43-Q48):

NEW QUESTION # 43
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. Reduce the value of spark.sql.shuffle.partitions
- B. Increase the size of the dataset to create more partitions
- C. Increase the value of spark.sql.shuffle.partitions
- D. Enable dynamic resource allocation to scale resources as needed

Answer: C

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 # 44
A data engineer uses a broadcast variable to share a DataFrame containing millions of rows across executors for lookup purposes.
What will be the outcome?

- A. The job may fail if the memory on each executor is not large enough to accommodate the DataFrame being broadcasted
- B. The job will hang indefinitely as Spark will struggle to distribute and serialize such a large broadcast variable to all

executors

- C. The job may fail because the driver does not have enough CPU cores to serialize the large DataFrame
- D. The job may fail if the executors do not have enough CPU cores to process the broadcasted dataset

Answer: A

Explanation:
In Apache Spark, broadcast variables are used to efficiently distribute large, read-only data to all worker nodes. However, broadcasting very large datasets can lead to memory issues on executors if the data does not fit into the available memory.
According to the Spark documentation:
"Broadcast variables allow the programmer to keep a read-only variable cached on each machine rather than shipping a copy of it with tasks. This can greatly reduce the amount of data sent over the network." However, it also notes:
"Using the broadcast functionality available in SparkContext can greatly reduce the size of each serialized task, and the cost of launching a job over a cluster. If your tasks use any large object from the driver program inside of them (e.g., a static lookup table), consider turning it into a broadcast variable." But caution is advised when broadcasting large datasets:
"Broadcasting large variables can cause out-of-memory errors if the data does not fit in the memory of each executor." Therefore, if the broadcasted DataFrame containing millions of rows exceeds the memory capacity of the executors, the job may fail due to memory constraints.

NEW QUESTION # 45
A data engineer is building a Structured Streaming pipeline and wants the pipeline to recover from failures or intentional shutdowns by continuing where the pipeline left off.
How can this be achieved?

- A. By configuring the option recoveryLocation during writeStream
- B. By configuring the option checkpointLocation during writeStream
- C. By configuring the option checkpointLocation during readStream
- D. By configuring the option recoveryLocation during the SparkSession initialization

Answer: B

Explanation:
To enable a Structured Streaming query to recover from failures or intentional shutdowns, it is essential to specify the checkpointLocation option during the writeStream operation. This checkpoint location stores the progress information of the streaming query, allowing it to resume from where it left off.
According to the Databricks documentation:
"You must specify the checkpointLocation option before you run a streaming query, as in the following example:
.option("checkpointLocation", "/path/to/checkpoint/dir")
.toTable("catalog.schema.table")
- Databricks Documentation: Structured Streaming checkpoints
By setting the checkpointLocation during writeStream, Spark can maintain state information and ensure exactly-once processing semantics, which are crucial for reliable streaming applications.

NEW QUESTION # 46
What is the benefit of using Pandas on Spark for data transformations?
Options:

- A. It runs on a single node only, utilizing the memory with memory-bound DataFrames and hence cost- efficient.
- B. It is available only with Python, thereby reducing the learning curve.
- C. It executes queries faster using all the available cores in the cluster as well as provides Pandas's rich set of features.
- D. It computes results immediately using eager execution, making it simple to use.

Answer: C

Explanation:
Pandas API on Spark (formerly Koalas) offers:
Familiar Pandas-like syntax
Distributed execution using Spark under the hood
Scalability for large datasets across the cluster

It provides the power of Spark while retaining the productivity of Pandas.
Reference:Pandas API on Spark Guide

NEW QUESTION # 47
6 of 55.
Which components of Apache Spark's Architecture are responsible for carrying out tasks when assigned to them?

- A. CPU Cores
- B. Worker Nodes
- C. Driver Nodes
- D. Executors

Answer: D

Explanation:
In Spark's distributed architecture:
The Driver Node coordinates the execution of a Spark application. It converts the logical plan into a physical plan of stages and tasks.
The Executors, running on Worker Nodes, are responsible for executing tasks assigned by the driver and storing data (in memory or disk) during execution.
Key point:
Executors are the active agents that perform the actual computations on data partitions. Each executor runs multiple tasks in parallel using available CPU cores.
Why the other options are incorrect:
A (Driver Nodes): The driver schedules tasks; it doesn't execute them.
C (CPU Cores): CPU cores execute within executors, but they are hardware, not Spark architectural components.
D (Worker Nodes): Worker nodes host executors but do not directly execute tasks; executors do.
Reference (Databricks Apache Spark 3.5 - Python / Study Guide):
Spark Architecture Components - Driver, Executors, Cluster Manager, Worker Nodes.
Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - describes the roles of driver and executor nodes in distributed processing.

NEW QUESTION # 48
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