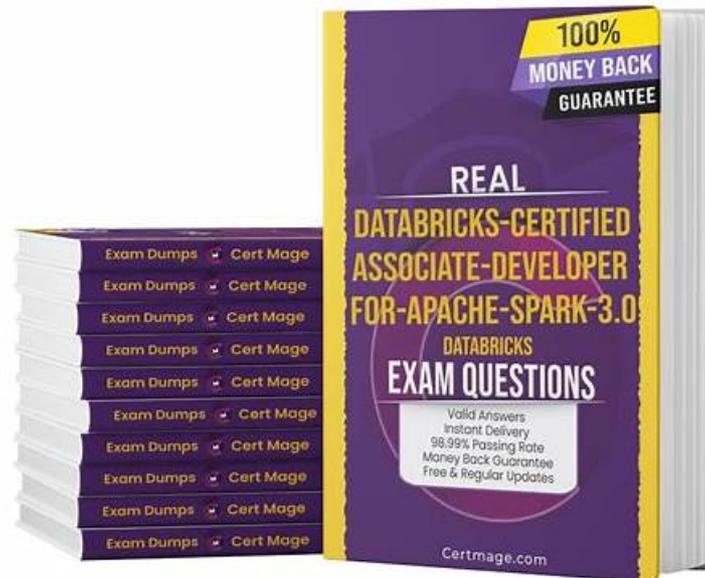


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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q93-Q98):

NEW QUESTION # 93

A Data Analyst is working on the DataFrame `sensor_df`, which contains two columns:

Which code fragment returns a DataFrame that splits the `record` column into separate columns and has one array item per row?

- A)
- B)
- C)
- D)

- ```
A. exploded_df = exploded_df.select(
 "record_datetime",
 "record_exploded.sensor_id",
 "record_exploded.status",
 "record_exploded.health"
)
exploded_df = sensor_df.withColumn("record_exploded", explode("record"))
```
- ```
B. exploded_df = exploded_df.select("record_datetime", "record_exploded")
```
- ```
C. exploded_df = exploded_df.select(
 "record_datetime",
 "record_exploded.sensor_id",
 "record_exploded.status",
 "record_exploded.health"
)
exploded_df = sensor_df.withColumn("record_exploded", explode("record"))
```
- ```
D. exploded_df = sensor_df.withColumn("record_exploded", explode("record"))
exploded_df = exploded_df.select("record_datetime", "sensor_id", "status", "health")
```

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To flatten an array of structs into individual rows and access fields within each struct, you must:

Use `explode()` to expand the array so each struct becomes its own row.

Access the struct fields via dot notation (e.g., `record_exploded.sensor_id`).

Option C does exactly that:

First, explode the `record` array column into a new column `record_exploded`.

Then, access fields of the struct using the dot syntax in `select`.

This is standard practice in PySpark for nested data transformation.

Final Answer: C

NEW QUESTION # 94

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

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

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 # 95

Which Spark configuration controls the number of tasks that can run in parallel on the executor?

Options:

- A. `spark.executor.memory`
- B. `spark.executor.cores`
- C. `spark.task.maxFailures`
- D. `spark.driver.cores`

Answer: B

Explanation:

`spark.executor.cores` determines how many concurrent tasks an executor can run.

For example, if set to 4, each executor can run up to 4 tasks in parallel.

Other settings:

`spark.task.maxFailures` controls task retry logic.

`spark.driver.cores` is for the driver, not executors.

`spark.executor.memory` sets memory limits, not task concurrency.

Reference: Apache Spark Configuration

NEW QUESTION # 96

34 of 55.

A data engineer is investigating a Spark cluster that is experiencing underutilization during scheduled batch jobs.

After checking the Spark logs, they noticed that tasks are often getting killed due to timeout errors, and there are several warnings about insufficient resources in the logs.

Which action should the engineer take to resolve the underutilization issue?

- A. Increase the number of executor instances to handle more concurrent tasks.
- B. Set the `spark.network.timeout` property to allow tasks more time to complete without being killed.
- C. Increase the executor memory allocation in the Spark configuration.
- D. Reduce the size of the data partitions to improve task scheduling.

Answer: A

Explanation:

Underutilization with timeout warnings often indicates insufficient parallelism - meaning there aren't enough executors to process all tasks concurrently.

Solution:

Increase the number of executors to allow more parallel task execution and better resource utilization.

Example configuration:

```
--conf spark.executor.instances=8
```

This distributes the workload more effectively across cluster nodes and reduces idle time for pending tasks.

Why the other options are incorrect:

A: Extending timeouts hides the symptom, not the root cause (lack of executors).

B: More memory per executor won't fix scheduling bottlenecks.

C: Reducing partition size may increase overhead and does not fix resource imbalance.

Reference:

Databricks Exam Guide (June 2025): Section "Troubleshooting and Tuning Apache Spark DataFrame API Applications" - tuning executors and cluster utilization.

Spark Configuration - executor instances and resource scaling.

NEW QUESTION # 97

What is a feature of Spark Connect?

- A. It supports `DataStreamReader`, `DataStreamWriter`, `StreamingQuery`, and `Streaming APIs`
- B. It supports only PySpark applications
- C. It has built-in authentication
- D. Supports `DataFrame`, `Functions`, `Column`, `SparkContext` PySpark APIs

Answer: A

Explanation:

Spark Connect is a client-server architecture introduced in Apache Spark 3.4, designed to decouple the client from the Spark driver, enabling remote connectivity to Spark clusters.

According to the Spark 3.5.5 documentation:

"Majority of the Streaming API is supported, including `DataStreamReader`, `DataStreamWriter`, `StreamingQuery` and `StreamingQueryListener`." This indicates that Spark Connect supports key components of Structured Streaming, allowing for robust streaming data processing capabilities.

Regarding other options:

B . While Spark Connect supports `DataFrame`, `Functions`, and `Column` APIs, it does not support `SparkContext` and `RDD` APIs.

C . Spark Connect supports multiple languages, including PySpark and Scala, not just PySpark.

D . Spark Connect does not have built-in authentication but is designed to work seamlessly with existing authentication infrastructures.

NEW QUESTION # 98

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