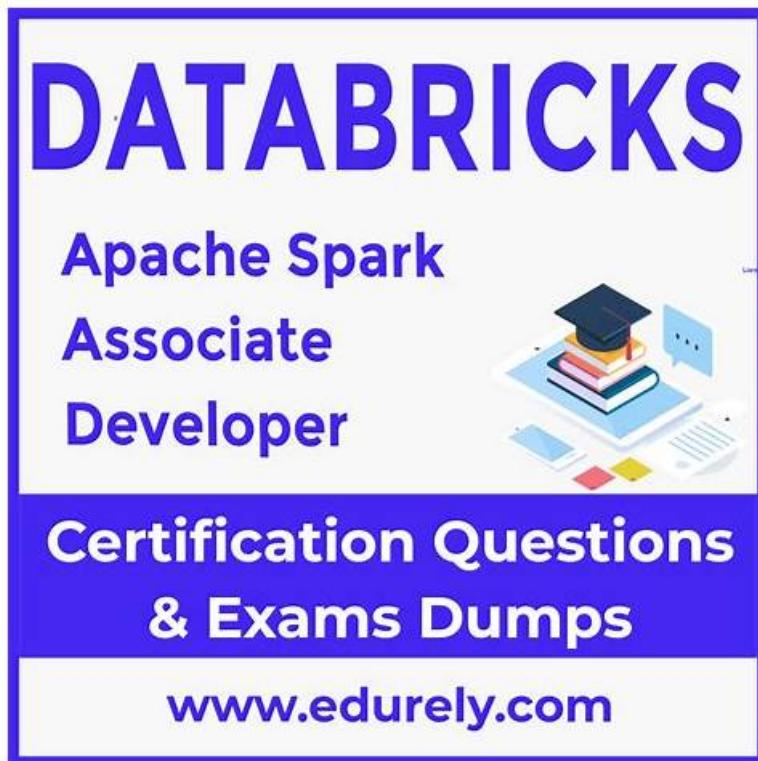


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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q50-Q55):

NEW QUESTION # 50

44 of 55.

A data engineer is working on a real-time analytics pipeline using Spark Structured Streaming. They want the system to process incoming data in micro-batches at a fixed interval of 5 seconds. Which code snippet fulfills this requirement?

- A. `query = df.writeStream \
.outputMode("append") \
.trigger(once=True) \
.start()`
- B. `query = df.writeStream \
.outputMode("append") \
.trigger(processingTime="5 seconds") \
.start()`
- C. `query = df.writeStream \
.outputMode("append") \
.start()`
- D. `query = df.writeStream \
.outputMode("append") \
.trigger(continuous="5 seconds") \
.start()`

Answer: B

Explanation:

To process data in fixed micro-batch intervals, use the `.trigger(processingTime="interval")` option in Structured Streaming.

Correct usage:

```
query = df.writeStream \  
.outputMode("append") \  
.trigger(processingTime="5 seconds") \  
.start()
```

This instructs Spark to process available data every 5 seconds.

Why the other options are incorrect:

B: continuous triggers are for continuous processing mode (different execution model).

C: once=True runs the stream a single time (batch mode).

D: Default trigger runs as fast as possible, not fixed intervals.

Reference:

PySpark Structured Streaming Guide - Trigger types: processingTime, once, continuous.

Databricks Exam Guide (June 2025): Section "Structured Streaming" - controlling streaming triggers and batch intervals.

NEW QUESTION # 51

What is the risk associated with this operation when converting a large Pandas API on Spark DataFrame back to a Pandas DataFrame?

- A. Data will be lost during conversion
- B. The operation will fail if the Pandas DataFrame exceeds 1000 rows
- C. The operation will load all data into the driver's memory, potentially causing memory overflow
- D. The conversion will automatically distribute the data across worker nodes

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When you convert a large `pyspark.pandas` (aka Pandas API on Spark) DataFrame to a local Pandas DataFrame using `toPandas()`, Spark collects all partitions to the driver.

From the Spark documentation:

"Be careful when converting large datasets to Pandas. The entire dataset will be pulled into the driver's memory." Thus, for large

datasets, this can cause memory overflow or out-of-memory errors on the driver.

Final Answer: D

NEW QUESTION # 52

A Spark application is experiencing performance issues in client mode because the driver is resource-constrained. How should this issue be resolved?

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

Answer: A

Explanation:

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 # 53

A Spark application developer wants to identify which operations cause shuffling, leading to a new stage in the Spark execution plan. Which operation results in a shuffle and a new stage?

- A. DataFrame.filter()
- B. DataFrame.withColumn()
- C. DataFrame.select()
- D. DataFrame.groupBy().agg()

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Operations that trigger data movement across partitions (like groupBy, join, repartition) result in a shuffle and a new stage.

From Spark documentation:

"groupBy and aggregation cause data to be shuffled across partitions to combine rows with the same key." Option A (groupBy + agg) # causes shuffle.

Options B, C, and D (filter, withColumn, select) # transformations that do not require shuffling; they are narrow dependencies.

Final Answer: A

NEW QUESTION # 54

A data engineer is working on a real-time analytics pipeline using Apache Spark Structured Streaming. The engineer wants to process incoming data and ensure that triggers control when the query is executed. The system needs to process data in micro-batches with a fixed interval of 5 seconds.

Which code snippet the data engineer could use to fulfil this requirement?

A)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    .start()
```



B)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger() \
    .start()
```



C)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    .start()
```

D)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime=5000) \
    .start()
```



Options:

- A. Uses trigger(processingTime='5 seconds') - correct micro-batch trigger with interval.
- B. Uses trigger() - default micro-batch trigger without interval.
- C. Uses trigger(processingTime=5000) - invalid, as processingTime expects a string.
- D. Uses trigger(continuous='5 seconds') - continuous processing mode.

Answer: A

Explanation:

To define a micro-batch interval, the correct syntax is:

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    .start()
```

This schedules the query to execute every 5 seconds.

Continuous mode (used in Option A) is experimental and has limited sink support.

Option D is incorrect because processingTime must be a string (not an integer).

Option B triggers as fast as possible without interval control.

Reference:Spark Structured Streaming - Triggers

NEW QUESTION # 55

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