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### Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q113-Q118):

#### NEW QUESTION # 113

A data engineer observes that an upstream streaming source sends duplicate records, where duplicates share the same key and have at most a 30-minute difference in `event_timestamp`. The engineer adds:

```
dropDuplicatesWithinWatermark("event_timestamp", "30 minutes")
```

What is the result?

- A. It removes duplicates that arrive within the 30-minute window specified by the watermark
- B. It removes all duplicates regardless of when they arrive
- C. It accepts watermarks in seconds and the code results in an error
- D. It is not able to handle deduplication in this scenario

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The method `dropDuplicatesWithinWatermark()` in Structured Streaming drops duplicate records based on a specified column and watermark window. The watermark defines the threshold for how late data is considered valid.

From the Spark documentation:

"`dropDuplicatesWithinWatermark` removes duplicates that occur within the event-time watermark window." In this case, Spark will retain the first occurrence and drop subsequent records within the 30-minute watermark window.

Final Answer: B

#### NEW QUESTION # 114

3 of 55. A data engineer observes that the upstream streaming source feeds the event table frequently and sends duplicate records. Upon analyzing the current production table, the data engineer found that the time difference in the `event_timestamp` column of the duplicate records is, at most, 30 minutes.

To remove the duplicates, the engineer adds the code:

```
df = df.withWatermark("event_timestamp", "30 minutes")
```

What is the result?

- A. It removes all duplicates regardless of when they arrive.
- B. It removes duplicates that arrive within the 30-minute window specified by the watermark.
- C. It accepts watermarks in seconds and the code results in an error.
- D. It is not able to handle deduplication in this scenario.

**Answer: B**

Explanation:

In Structured Streaming, a watermark defines the maximum delay for event-time data to be considered in stateful operations like deduplication or window aggregations.

Behavior:

```
df = df.withWatermark("event_timestamp", "30 minutes")
```

This sets a 30-minute watermark, meaning Spark will only keep track of events that arrive within 30 minutes of the latest event time seen so far. When used with:

```
df.dropDuplicates(["event_id", "event_timestamp"])
```

Spark removes duplicates that arrive within the watermark threshold (in this case, within 30 minutes).

Why other options are incorrect:

A: Watermarks do not remove all duplicates; they only manage those within the defined event-time window.  
B: Watermark durations can be expressed as strings like "30 minutes", "10 seconds", etc., not only seconds.  
D: Structured Streaming supports deduplication using `withWatermark()` and `dropDuplicates()`.  
Reference (Databricks Apache Spark 3.5 - Python / Study Guide):  
PySpark Structured Streaming Guide - `withWatermark()` and `dropDuplicates()` methods for event-time deduplication.  
Databricks Certified Associate Developer for Apache Spark Exam Guide (June 2025): Section "Structured Streaming" - Topic: Streaming Deduplication with and without watermark usage.

#### NEW QUESTION # 115

A data engineer is streaming data from Kafka and requires:

Minimal latency

Exactly-once processing guarantees

Which trigger mode should be used?

- A. `.trigger(continuous='1 second')`
- B. `.trigger(availableNow=True)`
- C. `.trigger(processingTime='1 second')`
- D. `.trigger(continuous=True)`

**Answer: C**

Explanation:

Exactly-once guarantees in Spark Structured Streaming require micro-batch mode (default), not continuous mode.

Continuous mode (`.trigger(continuous=...)`) only supports at-least-once semantics and lacks full fault-tolerance.

`trigger(availableNow=True)` is a batch-style trigger, not suited for low-latency streaming.

So:

Option A uses micro-batching with a tight trigger interval → minimal latency + exactly-once guarantee.

Final answer: A

#### NEW QUESTION # 116

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 size of the dataset to create more partitions
- B. Reduce the value of `spark.sql.shuffle.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 # 117

What is a feature of Spark Connect?

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

- D. It supports only PySpark applications

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

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 # 118

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