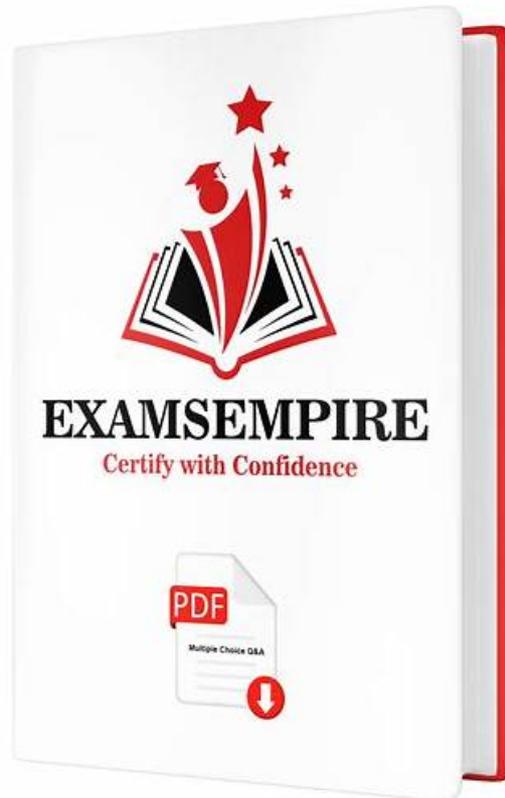


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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q24-Q29):

NEW QUESTION # 24

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 # 25

A developer notices that all the post-shuffle partitions in a dataset are smaller than the value set for `spark.sql.adaptive.maxShuffledHashJoinLocalMapThreshold`.

Which type of join will Adaptive Query Execution (AQE) choose in this case?

- **A. A shuffled hash join**
- B. A broadcast nested loop join
- C. A sort-merge join
- D. A Cartesian join

Answer: A

Explanation:

Adaptive Query Execution (AQE) dynamically selects join strategies based on actual data sizes at runtime. If the size of post-shuffle partitions is below the threshold set by:

spark.sql.adaptive.maxShuffledHashJoinLocalMapThreshold
then Spark prefers to use a shuffled hash join.

From the Spark documentation:

"AQE selects a shuffled hash join when the size of post-shuffle data is small enough to fit within the configured threshold, avoiding more expensive sort-merge joins." Therefore:

A is wrong - Cartesian joins are only used with no join condition.

B is correct - this is the optimized join for small partitioned shuffle data under AQE.

C and D are used under other scenarios but not for this case.

Final answer: B

NEW QUESTION # 26

A data engineer noticed improved performance after upgrading from Spark 3.0 to Spark 3.5. The engineer found that Adaptive Query Execution (AQE) was enabled.

Which operation is AQE implementing to improve performance?

- A. Optimizing the layout of Delta files on disk
- **B. Dynamically switching join strategies**
- C. Collecting persistent table statistics and storing them in the metastore for future use
- D. Improving the performance of single-stage Spark jobs

Answer: B

Explanation:

Adaptive Query Execution (AQE) is a Spark 3.x feature that dynamically optimizes query plans at runtime. One of its core features is:

Dynamically switching join strategies (e.g., from sort-merge to broadcast) based on runtime statistics.

Other AQE capabilities include:

Coalescing shuffle partitions

Skew join handling

Option A is correct.

Option B refers to statistics collection, which is not AQE's primary function.

Option C is too broad and not AQE-specific.

Option D refers to Delta Lake optimizations, unrelated to AQE.

Final answer: A

NEW QUESTION # 27

A data engineer is running a batch processing job on a Spark cluster with the following configuration:

10 worker nodes

16 CPU cores per worker node

64 GB RAM per node

The data engineer wants to allocate four executors per node, each executor using four cores.

What is the total number of CPU cores used by the application?

- A. 0
- **B. 1**
- C. 2
- D. 3

Answer: B

Explanation:

If each of the 10 nodes runs 4 executors, and each executor is assigned 4 CPU cores:

Executors per node = 4

Cores per executor = 4

Total executors = 4 * 10 = 40

Total cores = 40 executors * 4 cores = 160 cores

However, Spark uses 1 core for overhead on each node when managing multiple executors. Thus, the practical allocation is:

Total usable executors = 4 executors/node × 10 nodes = 40

Total cores = 4 cores × 40 executors = 160

Answer: A - but the question asks specifically about "CPU cores used by the application," assuming all However, if you are considering 4 executors/node × 4 cores = 16 cores per node, across 10 nodes, that's 160.

Final Answer: A

NEW QUESTION # 28

A data engineer wants to process a streaming DataFrame that receives sensor readings every second with columns `sensor_id`, `temperature`, and `timestamp`. The engineer needs to calculate the average temperature for each sensor over the last 5 minutes while the data is streaming.

Which code implementation achieves the requirement?

Options from the images provided:

- A.

```
df.groupBy("sensor_id", "timestamp")  
  .agg(avg("temperature").alias("avg_temp"))
```

- B.

```
df.groupBy("sensor_id").agg("temperature")  
df.withWatermark("timestamp", "5 minutes")
```

```
.groupBy("sensor_id", window("timestamp", "5 minutes"))  
.agg(avg("temperature").alias("avg_temp"))
```

- C.

```
df.withColumn("avg_temp", avg("temperature"))
```

- D.

```
.over(Window.partitionBy("sensor_id"))
```

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct answer is D because it uses proper time-based window aggregation along with watermarking, which is the required pattern in Spark Structured Streaming for time-based aggregations over event-time data.

From the Spark 3.5 documentation on structured streaming:

"You can define sliding windows on event-time columns, and use `groupBy` along with `window()` to compute aggregates over those windows. To deal with late data, you use `withWatermark()` to specify how late data is allowed to arrive." (Source: Structured Streaming Programming Guide) In option D, the use of:

python

CopyEdit

```
groupBy("sensor_id", window("timestamp", "5 minutes"))
```

```
agg(avg("temperature").alias("avg_temp"))
```

ensures that for each `sensor_id`, the average temperature is calculated over 5-minute event-time windows. To complete the logic, it is assumed that `withWatermark("timestamp", "5 minutes")` is used earlier in the pipeline to handle late events.

Explanation of why other options are incorrect:

Option A uses `Window.partitionBy` which applies to static DataFrames or batch queries and is not suitable for streaming aggregations.

Option B does not apply a time window, thus does not compute the rolling average over 5 minutes.

Option C incorrectly applies `withWatermark()` after an aggregation and does not include any time window, thus missing the time-based grouping required.

Therefore, Option D is the only one that meets all requirements for computing a time-windowed streaming aggregation.

NEW QUESTION # 29

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