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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q121-Q126):

NEW QUESTION # 121

Given the code:

```
df = spark.read.csv("large_dataset.csv")
filtered_df = df.filter(col("error_column")
                        .contains("error"))
mapped_df = filtered_df.select(split(col("timestamp"), " ").getItem(0).alias("date"),
                               lit(1).alias("count"))
reduced_df = mapped_df.groupBy("date").sum("count")
reduced_df.count()
reduced_df.show()
```

df= spark.read.csv("large_dataset.csv")
filtered_df= df.filter(col("error_column").contains("error"))
mapped_df= filtered_df.select(split(col("timestamp")," ").getItem(0).alias("date"), lit(1).alias("count"))
reduced_df= mapped_df.groupBy("date").sum("count")
reduced_df.count()
reduced_df.show()
At which point will Spark actually begin processing the data?

- A. When the count action is applied
- B. When the show action is applied
- C. When the filter transformation is applied
- D. When the groupBy transformation is applied

Answer: A

Explanation:

Spark uses lazy evaluation. Transformations like filter, select, and groupBy only define the DAG (Directed Acyclic Graph). No execution occurs until an action is triggered.

The first action in the code is: reduced_df.count()

So Spark starts processing data at this line.

Reference: Apache Spark Programming Guide - Lazy Evaluation

NEW QUESTION # 122

A data engineer needs to write a Streaming DataFrame as Parquet files.

Given the code:

```
df
.writeStream
// -- insert code here --
.checkpointLocation("path/to/checkpoint/dir")
.start()
```

Which code fragment should be inserted to meet the requirement?

A)

```
.format("parquet")
.option("location", "path/to/destination/dir")
```

B)

```
.option("format", "parquet")
.option("destination", "path/to/destination/dir")
```

C)

```
.option("format", "parquet")
.option("location", "path/to/dest
```

D)

```
.format("parquet")
.option("path", "path/to/destination")
```

Which code fragment should be inserted to meet the requirement?

- A. `.format("parquet")`
`.option("location", "path/to/destination/dir")`
- B. `CopyEdit`
`.option("format", "parquet")`
`.option("destination", "path/to/destination/dir")`
- C. `.format("parquet")`
`.option("path", "path/to/destination/dir")`
- D. `.option("format", "parquet")`
`.option("location", "path/to/destination/dir")`

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To write a structured streaming DataFrame to Parquet files, the correct way to specify the format and output directory is:

```
writeStream
```

```
format("parquet")
```

```
option("path", "path/to/destination/dir")
```

According to Spark documentation:

"When writing to file-based sinks (like Parquet), you must specify the path using the `.option("path", ...)` method. Unlike batch writes, `.save()` is not supported." Option A incorrectly uses `.option("location", ...)` (invalid for Parquet sink).

Option B incorrectly sets the format via `.option("format", ...)`, which is not the correct method.

Option C repeats the same issue.

Option D is correct: `.format("parquet")+option("path", ...)` is the required syntax.

Final Answer: D

NEW QUESTION # 123

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 executors do not have enough CPU cores to process the broadcasted dataset
- B. The job may fail because the driver does not have enough CPU cores to serialize the large DataFrame
- C. **The job may fail if the memory on each executor is not large enough to accommodate the DataFrame being broadcasted**
- D. The job will hang indefinitely as Spark will struggle to distribute and serialize such a large broadcast variable to all executors

Answer: C

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 # 124

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

Answer: C

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 # 125

What is a feature of Spark Connect?

- **A. It supports DataStreamReader, DataStreamWriter, StreamingQuery, and Streaming APIs**
- B. It has built-in authentication
- C. It supports only PySpark applications
- 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 # 126

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