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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q126-Q131):

NEW QUESTION # 126
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. Dynamically switching join strategies
- B. Improving the performance of single-stage Spark jobs
- C. Optimizing the layout of Delta files on disk
- D. Collecting persistent table statistics and storing them in the metastore for future use

Answer: A

Explanation:
Comprehensive and Detailed 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 # 127
A data engineer is working on a Streaming DataFrame streaming_df with the given streaming data:

Which operation is supported with streaming_df?

- A. streaming_df.orderBy("timestamp").limit(4)
- B. streaming_df.groupby("Id").count()
- C. streaming_df.filter(col("count") < 30).show()
- D. streaming_df.select(countDistinct("Name"))

Answer: B

Explanation:
Comprehensive and Detailed
Explanation:
In Structured Streaming, only a limited subset of operations is supported due to the nature of unbounded data.
Operations like sorting (orderBy) and global aggregation (countDistinct) require a full view of the dataset, which is not possible with streaming data unless specific watermarks or windows are defined.
Review of Each Option:
A). select(countDistinct("Name"))
Not allowed - Global aggregation like countDistinct() requires the full dataset and is not supported directly in streaming without watermark and windowing logic.
Reference: Databricks Structured Streaming Guide - Unsupported Operations.
B). groupby("Id").count()Supported - Streaming aggregations over a key (like groupBy("Id")) are supported.
Spark maintains intermediate state for each key.Reference: Databricks Docs # Aggregations in Structured Streaming

(https://docs.databricks.com/structured-streaming/aggregation.html)

C). orderBy("timestamp").limit(4)Not allowed - Sorting and limiting require a full view of the stream (which is infinite), so this is unsupported in streaming DataFrames.Reference: Spark Structured Streaming - Unsupported Operations (ordering without watermark/window not allowed).

D). filter(col("count") < 30).show()Not allowed - show() is a blocking operation used for debugging batch DataFrames; it's not allowed on streaming DataFrames.Reference: Structured Streaming Programming Guide - Output operations like show() are not supported.

Reference Extract from Official Guide:

"Operations like orderBy, limit, show, and countDistinct are not supported in Structured Streaming because they require the full dataset to compute a result. Use groupBy(...).agg(...) instead for incremental aggregations."- Databricks Structured Streaming Programming Guide

NEW QUESTION # 128

A developer is creating a Spark application that performs multiple DataFrame transformations and actions. The developer wants to maintain optimal performance by properly managing the SparkSession.

How should the developer handle the SparkSession throughout the application?

- A. Stop and restart the SparkSession after each action.
- B. Create a new SparkSession instance before each transformation.
- C. Avoid using a SparkSession and rely on SparkContext only.
- D. Use a single SparkSession instance for the entire application.

Answer: D

Explanation:

The SparkSession is the entry point to Spark functionality in modern versions (2.x and later). It unifies the SparkContext, SQLContext, and HiveContext into a single object.

Best Practice:

Use one SparkSession for the entire application.

Create it once at the start using SparkSession.builder.getOrCreate().

Reuse it across all transformations and actions.

Stop it only after all operations are completed.

Example:

```
from pyspark.sql import SparkSession
spark = SparkSession.builder.appName("MyApp").getOrCreate()
# Perform transformations and actions
spark.stop()
```

Why the other options are incorrect:

B: SparkSession is the recommended interface; SparkContext alone is deprecated for SQL/DataFrame APIs.

C: Creating multiple sessions increases overhead and wastes resources.

D: Restarting SparkSession breaks lineage and adds unnecessary startup costs.

Reference:

Spark API Reference - SparkSession lifecycle.

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - explains SparkSession lifecycle and application management.

NEW QUESTION # 129

A data engineer is working on a Streaming DataFrame (streaming_df) with the following streaming data:

id
name
count
timestamp
1
Delhi
20
2024-09-19T10:11

1
Delhi
50
2024-09-19T10:12
2
London
50
2024-09-19T10:15
3
Paris
30
2024-09-19T10:18
3
Paris
20
2024-09-19T10:20
4
Washington
10
2024-09-19T10:22

Which operation is supported with streaming_df?

- A. streaming_df.show()
- B. streaming_df.filter("count < 30")
- C. streaming_df.select(countDistinct("name"))
- D. streaming_df.count()

Answer: B

Explanation:
In Structured Streaming, only transformation operations are allowed on streaming DataFrames. These include select(), filter(), where(), groupBy(), withColumn(), etc.
Example of supported transformation:
filtered_df = streaming_df.filter("count < 30")
However, actions such as count(), show(), and collect() are not supported directly on streaming DataFrames because streaming queries are unbounded and never finish until stopped.
To perform aggregations, the query must be executed through writeStream and an output sink.
Why the other options are incorrect:
A: count() is an action, not allowed directly on streaming DataFrames.
C: countDistinct() is a stateful aggregation, not supported outside of a proper streaming query.
D: show() is also an action, unsupported on streaming queries.
Reference:
PySpark Structured Streaming Programming Guide - supported transformations and actions.
Databricks Exam Guide (June 2025): Section "Structured Streaming" - performing operations on streaming DataFrames and understanding supported transformations.

NEW QUESTION # 130
A data engineer needs to persist a file-based data source to a specific location. However, by default, Spark writes to the warehouse directory (e.g., /user/hive/warehouse). To override this, the engineer must explicitly define the file path.
Which line of code ensures the data is saved to a specific location?
Options:

- A. users.write(path="/some/path").saveAsTable("default_table")
- B. users.write.saveAsTable("default_table").option("path", "/some/path")
- C. users.write.option("path", "/some/path").saveAsTable("default_table")
- D. users.write.saveAsTable("default_table", path="/some/path")

Answer: C

Explanation:

To persist a table and specify the save path, use:
users.write.option("path","/some/path").saveAsTable("default_table")
The .option("path", ...) must be applied before calling saveAsTable.
Option A uses invalid syntax (write(path=...)).
Option B applies.option()after.saveAsTable()-which is too late.
Option D uses incorrect syntax (no path parameter in saveAsTable).
Reference:Spark SQL - Save as Table

NEW QUESTION # 131

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