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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q110-Q115):

NEW QUESTION # 110

A data engineer is working on a Streaming DataFrame streaming_df with the given streaming data:

Id	Name	count	timestamp
1	Delhi	20	2024-09-19T10:10:10.000+00:00
1	Delhi	50	2024-09-19T10:10:50.000+00:00
1	Delhi	10	2024-09-19T10:11:10.000+00:00
2	London	50	2024-09-19T10:10:20.000+00:00
3	Paris	30	2024-09-19T10:10:30.000+00:00
3	Paris	20	2024-09-19T10:11:20.000+00:00
4	Washington	10	2024-09-19T10:10:40.000+00:00
4	Washington	40	2024-09-19T10:11:00.000+00:00

Which operation is supported with streamingdf?

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

Answer: C

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 # 111

A Spark DataFrame `df` is cached using the `MEMORY_AND_DISK` storage level, but the DataFrame is too large to fit entirely in memory.

What is the likely behavior when Spark runs out of memory to store the DataFrame?

- A. Spark will store as much data as possible in memory and spill the rest to disk when memory is full, continuing processing with performance overhead.
- B. Spark stores the frequently accessed rows in memory and less frequently accessed rows on disk, utilizing both resources to offer balanced performance.
- C. Spark duplicates the DataFrame in both memory and disk. If it doesn't fit in memory, the DataFrame is stored and retrieved from the disk entirely.
- D. Spark splits the DataFrame evenly between memory and disk, ensuring balanced storage utilization.

Answer: A

Explanation:

When using the `MEMORY_AND_DISK` storage level, Spark attempts to cache as much of the DataFrame in memory as possible. If the DataFrame does not fit entirely in memory, Spark will store the remaining partitions on disk. This allows processing to continue, albeit with a performance overhead due to disk I/O.

As per the Spark documentation:

"`MEMORY_AND_DISK`: It stores partitions that do not fit in memory on disk and keeps the rest in memory. This can be useful when working with datasets that are larger than the available memory."

- Perflcient Blogs: Spark - StorageLevel

This behavior ensures that Spark can handle datasets larger than the available memory by spilling excess data to disk, thus preventing job failures due to memory constraints.

NEW QUESTION # 112

A data engineer writes the following code to join two DataFrames `df1` and `df2`:

```
df1 = spark.read.csv("sales_data.csv") # ~10 GB
df2 = spark.read.csv("product_data.csv") # ~8 MB
result = df1.join(df2, df1.product_id == df2.product_id)
```



```
df1 = spark.read.csv("sales_data.csv")
df2 = spark.read.csv("product_data.csv")
result = df1.join(df2, df1.product_id == df2.product_id)
```

Which join strategy will Spark use?

- A. Shuffle join, because AQE is not enabled, and Spark uses a static query plan
- B. Broadcast join, as `df2` is smaller than the default broadcast threshold
- C. Shuffle join, as the size difference between `df1` and `df2` is too large for a broadcast join to work efficiently
- D. Shuffle join because no broadcast hints were provided

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The default broadcast join threshold in Spark is:

`spark.sql.autoBroadcastJoinThreshold = 10MB`

Since `df2` is only 8 MB (less than 10 MB), Spark will automatically apply a broadcast join without requiring explicit hints.

From the Spark documentation:

"If one side of the join is smaller than the broadcast threshold, Spark will automatically broadcast it to all executors." A is incorrect because Spark does support auto broadcast even with static plans.

B is correct: Spark will automatically broadcast `df2`.

C and D are incorrect because Spark's default logic handles this optimization.

Final Answer: B

NEW QUESTION # 113

26 of 55.

A data scientist at an e-commerce company is working with user data obtained from its subscriber database and has stored the data in a DataFrame `df_user`.

Before further processing, the data scientist wants to create another DataFrame `df_user_non_pii` and store only the non-PII columns.

The PII columns in `df_user` are `name`, `email`, and `birthdate`.

Which code snippet can be used to meet this requirement?

- A. `df_user_non_pii = df_user.remove("name", "email", "birthdate")`
- B. `df_user_non_pii = df_user.dropFields("name", "email", "birthdate")`
- C. `df_user_non_pii = df_user.drop("name", "email", "birthdate")`
- D. `df_user_non_pii = df_user.select("name", "email", "birthdate")`

Answer: C

Explanation:

To exclude sensitive (PII) columns from a DataFrame, the easiest method is to use the `.drop()` function with the list of column names to remove.

Correct syntax:

```
df_user_non_pii = df_user.drop("name", "email", "birthdate")
```

This creates a new DataFrame containing all remaining columns.

Why the other options are incorrect:

B: `.dropFields()` is not valid for standard DataFrames - it's used for struct fields only.

C: `.select()` would keep only PII columns, not remove them.

D: `.remove()` does not exist in Spark DataFrame API.

Reference:

PySpark DataFrame API - `drop()` method for removing multiple columns.

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - data manipulation, selecting, and dropping columns.

NEW QUESTION # 114

An engineer notices a significant increase in the job execution time during the execution of a Spark job. After some investigation, the engineer decides to check the logs produced by the Executors.

How should the engineer retrieve the Executor logs to diagnose performance issues in the Spark application?

- A. Use the `commandspark-submit` with the `-verbose` flag to print the logs to the console.
- B. Fetch the logs by running a Spark job with the `spark-sql` CLI tool.
- C. Use the Spark UI to select the stage and view the executor logs directly from the stages tab.
- D. Locate the executor logs on the Spark master node, typically under the `/tmp` directory.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Spark UI is the standard and most effective way to inspect executor logs, task time, input size, and shuffles.

From the Databricks documentation:

"You can monitor job execution via the Spark Web UI. It includes detailed logs and metrics, including task-level execution time, shuffle reads/writes, and executor memory usage."

(Source: Databricks Spark Monitoring Guide) Option A is incorrect: logs are not guaranteed to be in `/tmp`, especially in cloud environments.

B). `-verbose` helps during job submission but doesn't give detailed executor logs.

D). `spark-sql` is a CLI tool for running queries, not for inspecting logs.

Hence, the correct method is using the Spark UI # Stages tab # Executor logs.

NEW QUESTION # 115

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