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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q13-Q18):

NEW QUESTION # 13

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

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 # 14

A data scientist wants each record in the DataFrame to contain:

The first attempt at the code does read the text files but each record contains a single line. This code is shown below:

```
raw_txt_path = '/datasets/raw_txt/*.*'
corpus = spark.read.text(raw_txt_path) \
    .select('*', '_metadata.file_path')
```

The entire contents of a file

The full file path

The issue: reading line-by-line rather than full text per file.

Code:

```
corpus = spark.read.text("/datasets/raw_txt/*.*") \
    .select('*', '_metadata.file_path')
```

Which change will ensure one record per file?

Options:

- A. Add the option lineSep="," to the text() function
- B. Add the option wholetext=False to the text() function
- **C. Add the option wholetext=True to the text() function**
- D. Add the option lineSep='\n' to the text() function

Answer: C

Explanation:

To read each file as a single record, use:

```
spark.read.text(path, wholetext=True)
```

This ensures that Spark reads the entire file contents into one row.

Reference: Spark read.text() with wholetext

NEW QUESTION # 15

Given the following code snippet in my_spark_app.py:

```
from pyspark.sql
import SparkSession

spark = SparkSession.builder.appName("CodeComponentsExample").getOrCreate()

data = [("Alice", 34), ("Bob", 36), ("Cathy", 31)]
columns = ["Name", "Age"]

df = spark.createDataFrame(data, columns).withColumn("Status", "Pass")
df_filtered = df.filter(df.Age > 35)
df_filtered.show()

spark.stop()
```

What is the role of the driver node?

- A. The driver node holds the DataFrame data and performs all computations locally
- B. The driver node only provides the user interface for monitoring the application
- **C. The driver node orchestrates the execution by transforming actions into tasks and distributing them to worker nodes**
- D. The driver node stores the final result after computations are completed by worker nodes

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In the Spark architecture, the driver node is responsible for orchestrating the execution of a Spark application.

It converts user-defined transformations and actions into a logical plan, optimizes it into a physical plan, and then splits the plan into tasks that are distributed to the executor nodes.

As per Databricks and Spark documentation:

"The driver node is responsible for maintaining information about the Spark application, responding to a user's program or input, and analyzing, distributing, and scheduling work across the executors." This means:

Option A is correct because the driver schedules and coordinates the job execution.

Option B is incorrect because the driver does more than just UI monitoring.

Option C is incorrect since data and computations are distributed across executor nodes.

Option D is incorrect; results are returned to the driver but not stored long-term by it.

Reference: Databricks Certified Developer Spark 3.5 Documentation # Spark Architecture # Driver vs Executors.

NEW QUESTION # 16

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 because no broadcast hints were provided
- D. Shuffle join, as the size difference between df1 and df2 is too large for a broadcast join to work efficiently

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 # 17

An MLOps engineer is building a Pandas UDF that applies a language model that translates English strings into Spanish. The initial code is loading the model on every call to the UDF, which is hurting the performance of the data pipeline.

The initial code is:

```
def in_spanish_inner(df: pd.Series) -> pd.Series:
    model = get_translation_model(target_lang='es')
    return df.apply(model)
```

```
in_spanish = sf.pandas_udf(in_spanish_inner, StringType())
```

```
def in_spanish_inner(df: pd.Series) -> pd.Series:
```

```
    model = get_translation_model(target_lang='es')
```

```
    return df.apply(model)
```

```
in_spanish = sf.pandas_udf(in_spanish_inner, StringType())
```

How can the MLOps engineer change this code to reduce how many times the language model is loaded?

- A. Convert the Pandas UDF from a Series # Series UDF to a Series # Scalar UDF
- B. Convert the Pandas UDF to a PySpark UDF
- C. Run the in_spanish_inner() function in a mapInPandas() function call
- **D. Convert the Pandas UDF from a Series # Series UDF to an Iterator[Series] # Iterator[Series] UDF**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The provided code defines a Pandas UDF of type Series-to-Series, where a new instance of the language model is created on each call, which happens per batch. This is inefficient and results in significant overhead due to repeated model initialization.

To reduce the frequency of model loading, the engineer should convert the UDF to an iterator-based Pandas UDF (Iterator[pd.Series] -> Iterator[pd.Series]). This allows the model to be loaded once per executor and reused across multiple batches, rather than once per call.

From the official Databricks documentation:

"Iterator of Series to Iterator of Series UDFs are useful when the UDF initialization is expensive... For example, loading a ML model once per executor rather than once per row/batch."

- Databricks Official Docs: Pandas UDFs

Correct implementation looks like:

```
python
```

```
CopyEdit
```

```
@pandas_udf("string")
```

```
def translate_udf(batch_iter: Iterator[pd.Series]) -> Iterator[pd.Series]:
```

```
    model = get_translation_model(target_lang='es')
```

```
    for batch in batch_iter:
```

```
        yield batch.apply(model)
```

This refactor ensures the get_translation_model() is invoked once per executor process, not per batch, significantly improving pipeline performance.

NEW QUESTION # 18

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