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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q37-Q42):

NEW QUESTION # 37
48 of 55.

A data engineer needs to join multiple DataFrames and has written the following code:
from pyspark.sql.functions import broadcast
data1 = [(1, "A"), (2, "B")]
data2 = [(1, "X"), (2, "Y")]
data3 = [(1, "M"), (2, "N")]
df1 = spark.createDataFrame(data1, ["id", "val1"])
df2 = spark.createDataFrame(data2, ["id", "val2"])
df3 = spark.createDataFrame(data3, ["id", "val3"])
df_joined = df1.join(broadcast(df2), "id", "inner") \
.join(broadcast(df3), "id", "inner")
What will be the output of this code?

- A. The code will fail because only one broadcast join can be performed at a time.
- B. The code will work correctly and perform two broadcast joins simultaneously to join df1 with df2, and then the result with df3.
- C. The code will fail because the second join condition (df2.id == df3.id) is incorrect.
- D. The code will result in an error because broadcast() must be called before the joins, not inline.

Answer: B

Explanation:
Spark supports multiple broadcast joins in a single query plan, as long as each broadcasted DataFrame is small enough to fit under the configured threshold.
Execution Plan:
Spark broadcasts df2 to all executors.
Joins df1 (big) with broadcasted df2.
Then broadcasts df3 and performs another join with the intermediate result.
The result is efficient and avoids shuffling large data.
Why the other options are incorrect:
B: Multiple broadcast joins are supported in Spark 3.x.
C: The join condition is correct since all use id as the key.
D: broadcast() can be used inline; it's valid syntax.
Reference:
PySpark SQL Functions - broadcast() usage.
Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - multiple broadcast join optimization.

NEW QUESTION # 38
34 of 55.
A data engineer is investigating a Spark cluster that is experiencing underutilization during scheduled batch jobs.
After checking the Spark logs, they noticed that tasks are often getting killed due to timeout errors, and there are several warnings about insufficient resources in the logs.
Which action should the engineer take to resolve the underutilization issue?

- A. Set the spark.network.timeout property to allow tasks more time to complete without being killed.
- B. Increase the executor memory allocation in the Spark configuration.
- C. Increase the number of executor instances to handle more concurrent tasks.
- D. Reduce the size of the data partitions to improve task scheduling.

Answer: C

Explanation:
Underutilization with timeout warnings often indicates insufficient parallelism - meaning there aren't enough executors to process all tasks concurrently.
Solution:
Increase the number of executors to allow more parallel task execution and better resource utilization.
Example configuration:
--conf spark.executor.instances=8
This distributes the workload more effectively across cluster nodes and reduces idle time for pending tasks.
Why the other options are incorrect:

A: Extending timeouts hides the symptom, not the root cause (lack of executors).
B: More memory per executor won't fix scheduling bottlenecks.
C: Reducing partition size may increase overhead and does not fix resource imbalance.
Reference:
Databricks Exam Guide (June 2025): Section "Troubleshooting and Tuning Apache Spark DataFrame API Applications" - tuning executors and cluster utilization.
Spark Configuration - executor instances and resource scaling.

NEW QUESTION # 39

What is the benefit of using Pandas API on Spark for data transformations?

- A. It is available only with Python, thereby reducing the learning curve.
- B. It executes queries faster using all the available cores in the cluster as well as provides Pandas's rich set of features.
- C. It runs on a single node only, utilizing memory efficiently.
- D. It computes results immediately using eager execution.

Answer: B

Explanation:
Pandas API on Spark provides a distributed implementation of the Pandas DataFrame API on top of Apache Spark.
Advantages:
Executes transformations in parallel across all nodes and cores in the cluster.
Maintains Pandas-like syntax, making it easy for Python users to transition.
Enables scaling of existing Pandas code to handle large datasets without memory limits.
Therefore, it combines Pandas usability with Spark's distributed power, offering both speed and scalability.
Why the other options are incorrect:
B: While it uses Python, that's not its main advantage.
C: It runs distributed across the cluster, not on a single node.
D: Pandas API on Spark uses lazy evaluation, not eager computation.
Reference:
PySpark Pandas API Overview - advantages of distributed execution.
Databricks Exam Guide (June 2025): Section "Using Pandas API on Apache Spark" - explains the benefits of Pandas API integration for scalable transformations.

NEW QUESTION # 40

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.withColumn("avg_temp", avg("temperature")
    .over(Window.partitionBy("sensor_id")
```

- B.

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

- C.

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

- D.

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

Answer: B

Explanation:
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 # 41

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

Answer: B

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).

NEW QUESTION # 42

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