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## Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q55-Q60):

### NEW QUESTION # 55

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 splits the DataFrame evenly between memory and disk, ensuring balanced storage utilization.
- **B. 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.**
- C. Spark stores the frequently accessed rows in memory and less frequently accessed rows on disk, utilizing both resources to offer balanced performance.
- D. 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.

**Answer: B**

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."

- Perficent 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 # 56

Given a CSV file with the content:

```
bambi,hello  
alladin,20
```

Given the code fragment:

```
from pyspark.sql.types import *  
schema = StructType([StructField("name", StringType()), StructField("age", IntegerType())])  
spark.read.schema(schema).csv(path).collect()
```

And the following code:

```
from pyspark.sql.types import *  
schema = StructType([  
    StructField("name", StringType()),  
    StructField("age", IntegerType())  
)  
spark.read.schema(schema).csv(path).collect()
```

What is the resulting output?

- A. [Row(name='alladin', age=20)]
- B. The code throws an error due to a schema mismatch.
- C. [Row(name='bambi'), Row(name='alladin', age=20)]
- **D. [Row(name='bambi', age=None), Row(name='alladin', age=20)]**

**Answer: D**

Explanation:

In Spark, when a CSV row does not match the provided schema, Spark does not raise an error by default. Instead, it returns null for fields that cannot be parsed correctly.

In the first row, "hello" cannot be cast to Integer for the age field → Spark sets age=None In the second row, "20" is a valid integer → age=20 So the output will be:

[Row(name='bambi', age=None), Row(name='alladin', age=20)]

Final answer: C

### NEW QUESTION # 57

A data engineer wants to create a Streaming DataFrame that reads from a Kafka topic called feed.

```
1. spark
2. .readStream
3. .format("kafka")
4. .option("kafka.bootstrap.servers", "host1:port1,host2:port2")
5. ._____
6. .load()
```



Which code fragment should be inserted in line 5 to meet the requirement?

Code context:

```
spark \
.readStream \
.format("kafka") \
.option("kafka.bootstrap.servers", "host1:port1,host2:port2") \
.[LINE5] \
.load()
```

Options:

- A. `.option("subscribe", "feed")`
- B. `.option("topic", "feed")`
- C. `.option("subscribe.topic", "feed")`
- D. `.option("kafka.topic", "feed")`

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation:

To read from a specific Kafka topic using Structured Streaming, the correct syntax is:

python

CopyEdit

```
option("subscribe", "feed")
```

This is explicitly defined in the Spark documentation:

"subscribe - The Kafka topic to subscribe to. Only one topic can be specified for this option." (Source: Apache Spark Structured Streaming + Kafka Integration Guide)

B). "subscribe.topic" is invalid.

C). "kafka.topic" is not a recognized option.

D). "topic" is not valid for Kafka source in Spark.

### NEW QUESTION # 58

A data scientist is working on a large dataset in Apache Spark using PySpark. The data scientist has a DataFrame df with columns user\_id, product\_id, and purchase\_amount and needs to perform some operations on this data efficiently.

Which sequence of operations results in transformations that require a shuffle followed by transformations that do not?

- A. `df.withColumn("purchase_date", current_date()).where("total_purchase > 50")`
- B. `df.groupBy("user_id").agg(sum("purchase_amount").alias("total_purchase")).repartition(10)`
- C. `df.withColumn("discount", df.purchase_amount * 0.1).select("discount")`
- D. `df.filter(df.purchase_amount > 100).groupBy("user_id").sum("purchase_amount")`

**Answer: B**

Explanation:

Shuffling occurs in operations like `groupBy`, `reduceByKey`, or `join`-which cause data to be moved across partitions. The `repartition()` operation can also cause a shuffle, but in this context, it follows an aggregation.

In Option D, the `groupBy` followed by `agg` results in a shuffle due to grouping across nodes.

The `repartition(10)` is a partitioning transformation but does not involve a new shuffle since the data is already grouped.

This sequence - shuffle (`groupBy`) followed by non-shuffling (`repartition`) - is correct.

Option A does the opposite: the filter does not cause a shuffle, but `groupBy` does - this makes it the wrong order.

## NEW QUESTION # 59

35 of 55.

A data engineer is building a Structured Streaming pipeline and wants it to recover from failures or intentional shutdowns by continuing where it left off.

How can this be achieved?

- A. By configuring the option `checkpointLocation` during `writeStream`.
- B. By configuring the option `recoveryLocation` during `writeStream`.
- C. By configuring the option `recoveryLocation` during SparkSession initialization.
- D. By configuring the option `checkpointLocation` during `readStream`.

**Answer: A**

Explanation:

In Structured Streaming, checkpoints store state information (offsets, progress, and metadata) needed to resume a stream after a failure or restart.

Correct usage:

Set the `checkpointLocation` option when writing the streaming output:

```
streaming_df.writeStream \
  .format("delta") \
  .option("checkpointLocation", "/path/to/checkpoint/dir") \
  .start("/path/to/output")
```

Spark uses this checkpoint directory to recover progress automatically and maintain exactly-once semantics.

Why the other options are incorrect:

A/D: `recoveryLocation` is not a valid Spark configuration option.

B: Checkpointing must be configured in `writeStream`, not during `readStream`.

Reference:

PySpark Structured Streaming Guide - Checkpointing and recovery.

Databricks Exam Guide (June 2025): Section "Structured Streaming" - explains checkpointing and fault-tolerant streaming recovery.

## NEW QUESTION # 60

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