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## Databricks Certified Associate Developer for Apache Spark 3.5 - Python

## Sample Questions (Q125-Q130):

### NEW QUESTION # 125

Given a DataFrame that has 10 partitions, after running the code:

```
result = df.coalesce(20)
```

How many partitions will the result DataFrame have?

- A. 0
- **B. 1**
- C. 2
- D. Same number as the cluster executors

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The `coalesce(numPartitions)` function is used to reduce the number of partitions in a DataFrame. It does not increase the number of partitions. If the specified number of partitions is greater than the current number, it will not have any effect.

From the official Spark documentation:

"`coalesce()` results in a narrow dependency, e.g. if you go from 1000 partitions to 100 partitions, there will not be a shuffle, instead each of the 100 new partitions will claim one or more of the current partitions." However, if you try to increase partitions using `coalesce` (e.g., from 10 to 20), the number of partitions remains unchanged.

Hence, `df.coalesce(20)` will still return a DataFrame with 10 partitions.

Reference: Apache Spark 3.5 Programming Guide # RDD and DataFrame Operations # `coalesce()`

### NEW QUESTION # 126

37 of 55.

A data scientist is working with a Spark DataFrame called `customerDF` that contains customer information.

The DataFrame has a column named `email` with customer email addresses.

The data scientist needs to split this column into username and domain parts.

Which code snippet splits the email column into username and domain columns?

- **A. `customerDF = customerDF \`  
`.withColumn("username", split(col("email"), "@").getItem(0)) \`  
`.withColumn("domain", split(col("email"), "@").getItem(1))`**
- B. `customerDF = customerDF.select("email").alias("username", "domain")`
- C. `customerDF = customerDF.withColumn("username", regexp_replace(col("email"), "@", ""))`
- D. `customerDF = customerDF.withColumn("domain", col("email").split("@")[1])`

**Answer: A**

Explanation:

The `split()` function in PySpark splits strings into an array based on a given delimiter.

Then, `getItem(index)` extracts a specific element from the array.

Correct usage:

```
from pyspark.sql.functions import split, col
customerDF = customerDF \
.withColumn("username", split(col("email"), "@").getItem(0)) \
.withColumn("domain", split(col("email"), "@").getItem(1))
```

This creates two new columns derived from the email field:

`"username"` → text before `@`

`"domain"` → text after `@`

Why the other options are incorrect:

B: `regexp_replace` only replaces text; does not split into multiple columns.

C: `.select()` cannot alias multiple derived columns like this.

D: Column objects are not native Python strings; cannot use standard `.split()`.

Reference:

PySpark SQL Functions - `split()` and `getItem()`.

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - manipulating and splitting column data.

### NEW QUESTION # 127

5 of 55.

What is the relationship between jobs, stages, and tasks during execution in Apache Spark?

- A. A stage contains multiple tasks, and each task contains multiple jobs.
- **B. A job contains multiple stages, and each stage contains multiple tasks.**
- C. A job contains multiple tasks, and each task contains multiple stages.
- D. A stage contains multiple jobs, and each job contains multiple tasks.

**Answer: B**

Explanation:

In Apache Spark's execution hierarchy, the relationships are structured as follows:

Job: Created when an action (e.g., count(), collect(), save()) is triggered on an RDD or DataFrame.

Stage: Each job is divided into one or more stages, separated by shuffle boundaries (e.g., after a reduceByKey or join).

Task: Each stage consists of multiple tasks, one per partition, executed in parallel on executors.

Execution Hierarchy:

Job → Stage(s) → Task(s)

So, a job contains multiple stages, and each stage contains multiple tasks.

Why the other options are incorrect:

A: A job does not directly contain tasks without stages.

B: A stage cannot contain multiple jobs; it belongs to a single job.

C: Tasks do not contain jobs.

Reference (Databricks Apache Spark 3.5 - Python / Study Guide):

Spark Architecture Overview - Execution Hierarchy: Jobs, Stages, and Tasks.

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - describes execution hierarchy and lazy evaluation.

### NEW QUESTION # 128

A data engineer is working on a real-time analytics pipeline using Apache Spark Structured Streaming. The engineer wants to process incoming data and ensure that triggers control when the query is executed. The system needs to process data in micro-batches with a fixed interval of 5 seconds.

Which code snippet the data engineer could use to fulfil this requirement?

A)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(continuous='5 seconds') \
    .start()
```

B)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(trigger='5 seconds') \
    .start()
```

C)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processTime='5 seconds') \
    .start()
```

D)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime=5000) \
    start()
```

Options:

- A. Uses `trigger(processingTime='5 seconds')` - correct micro-batch trigger with interval.
- B. Uses `trigger()` - default micro-batch trigger without interval.
- C. Uses `trigger(continuous='5 seconds')` - continuous processing mode.
- D. Uses `trigger(processingTime=5000)` - invalid, as `processingTime` expects a string.

**Answer: A**

Explanation:

To define a micro-batch interval, the correct syntax is:

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    start()
```

This schedules the query to execute every 5 seconds.

Continuous mode (used in Option A) is experimental and has limited sink support.

Option D is incorrect because `processingTime` must be a string (not an integer).

Option B triggers as fast as possible without interval control.

Reference: Spark Structured Streaming - Triggers

#### NEW QUESTION # 129

In the code block below, `aggDF` contains aggregations on a streaming `DataFrame`:

```
1. aggDF \
2.     .writeStream \
3.     .outputMode("____") \
4.     .format("console") \
5.     start()
```

Which output mode at line 3 ensures that the entire result table is written to the console during each trigger execution?

- A. replace
- B. append
- C. complete
- D. aggregate

**Answer: C**

Explanation:

The correct output mode for streaming aggregations that need to output the full updated results at each trigger is "complete".

From the official documentation:

"complete: The entire updated result table will be output to the sink every time there is a trigger." This is ideal for aggregations, such as counts or averages grouped by a key, where the result table changes incrementally over time.

append: only outputs newly added rows

replace and aggregate: invalid values for output mode

#### NEW QUESTION # 130

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