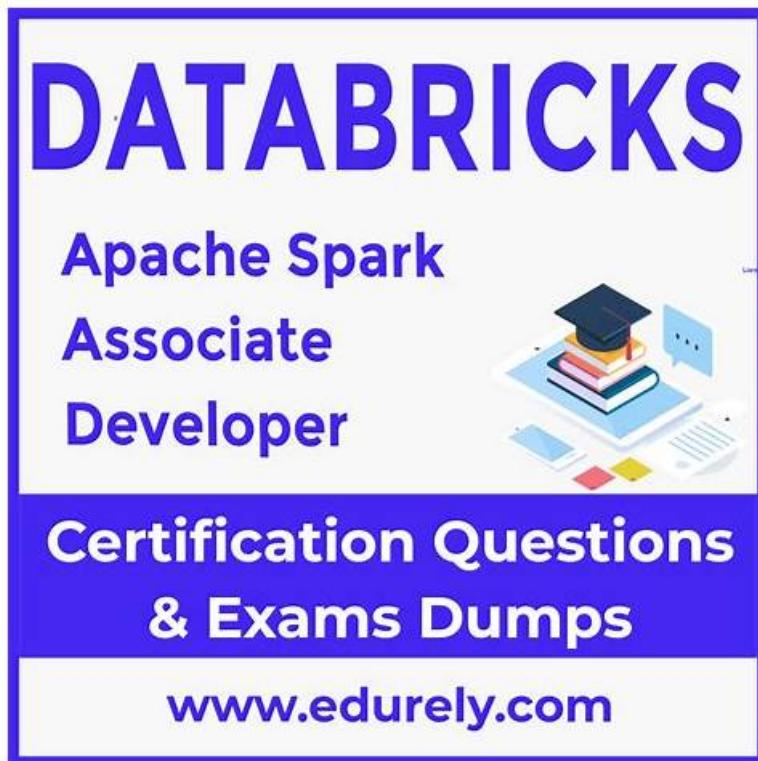


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## Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q79-Q84):

### NEW QUESTION # 79

28 of 55.

A data analyst builds a Spark application to analyze finance data and performs the following operations:

filter, select, groupBy, and coalesce.

Which operation results in a shuffle?

- A. coalesce
- B. select
- C. **groupBy**
- D. filter

**Answer: C**

Explanation:

In Spark, a shuffle occurs when data needs to be redistributed across partitions or nodes, typically due to operations that require grouping, joining, or sorting.

groupBy triggers a shuffle because it aggregates data based on key values, requiring data from multiple partitions to be moved across the cluster.

Operations like filter and select are narrow transformations (no shuffle).

coalesce can reduce the number of partitions without a full shuffle (unlike repartition).

Why the other options are incorrect:

A (filter) - Narrow transformation, no shuffle.

B (select) - Simple projection, no data movement.

D (coalesce) - Reduces partitions locally without shuffle.

Reference:

Spark Architecture - Transformations and Actions; narrow vs. wide transformations.

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - explains shuffle operations and execution hierarchy.

### NEW QUESTION # 80

A data engineer needs to write a Streaming DataFrame as Parquet files.

Given the code:

```
df
  .writeStream
  // -- insert code here --
  .checkpointLocation("path/to/checkpoint/dir")
  .start()
```

Which code fragment should be inserted to meet the requirement?

A)

```
  .format("parquet")
  .option("location", "path/to/destination/dir")
```

B)

```
  .option("format", "parquet")
  .option("destination", "path/to/destination/dir")
```

C)

```
  .option("format", "parquet")
  .option("location", "path/to/dest")
```

D)

```
.format("parquet")
.option("path", "path/to/destinat
```

Which code fragment should be inserted to meet the requirement?

- A. CopyEdit  
.option("format", "parquet")  
.option("destination", "path/to/destination/dir")
- B. **.format("parquet")**  
.option("path", "path/to/destination/dir")
- C. .option("format", "parquet")  
.option("location", "path/to/destination/dir")
- D. .format("parquet")  
.option("location", "path/to/destination/dir")

**Answer: B**

Explanation:

To write a structured streaming DataFrame to Parquet files, the correct way to specify the format and output directory is:

```
.writeStream
.format("parquet")
.option("path", "path/to/destination/dir")
```

According to Spark documentation:

"When writing to file-based sinks (like Parquet), you must specify the path using the .option("path", ...) method. Unlike batch writes, .save() is not supported." Option A incorrectly uses .option("location", ...) (invalid for Parquet sink).

Option B incorrectly sets the format via .option("format", ...), which is not the correct method.

Option C repeats the same issue.

Option D is correct: .format("parquet") + .option("path", ...) is the required syntax.

Final answer: D

## NEW QUESTION # 81

21 of 55.

What is the behavior of the function date\_sub(start, days) if a negative value is passed into the days parameter?

- A. An error message of an invalid parameter will be returned.
- B. The same start date will be returned.
- C. **The number of days specified will be added to the start date.**
- D. The number of days specified will be removed from the start date.

**Answer: C**

Explanation:

In Spark SQL, the function date\_sub(startDate, days) returns the date that is days before startDate.

If the days parameter is negative, Spark interprets it as subtracting a negative number, which effectively adds days to the date.

Example:

```
from pyspark.sql.functions import date_sub, lit
df = spark.createDataFrame([( "2024-10-01", )], ["dt"])
df.select(date_sub("dt", -5).alias("new_date")).show()
```

Output:

```
+-----+
| new_date |
+-----+
|2024-10-06|
+-----+
```

Why the other options are incorrect:

B: No error occurs; negative values are supported.

C: The start date changes if days ≠ 0.

D: Subtracting days would move the date backward, not forward.

Reference:

Spark SQL Functions - date\_sub(startDate, days) and date\_add(startDate, days) behavior.

### NEW QUESTION # 82

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.select(  
 regexp_replace(col("email"), "@", "").alias("username"),  
 regexp_replace(col("email"), "@", "").alias("domain")  
)`
- B. `customerDF.select(  
 col("email").substr(0, 5).alias("username"),  
 col("email").substr(-5).alias("domain")  
)`
- C. `customerDF.withColumn("username", substring_index(col("email"), "@", 1)) \  
 .withColumn("domain", substring_index(col("email"), "@", -1))`
- D. `customerDF.withColumn("username", split(col("email"), "@").getItem(0)) \  
 .withColumn("domain", split(col("email"), "@").getItem(1))`

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Option B is the correct and idiomatic approach in PySpark to split a string column (like email) based on a delimiter such as "@".

The `split(col("email"), "@")` function returns an array with two elements: username and domain.

`getItem(0)` retrieves the first part (username).

`getItem(1)` retrieves the second part (domain).

`withColumn()` is used to create new columns from the extracted values.

Example from official Databricks Spark documentation on splitting columns:

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

##Why other options are incorrect:

A uses fixed substring indices (`substr(0, 5)`), which won't correctly extract usernames and domains of varying lengths.

C uses `substring_index`, which is available but less idiomatic for splitting emails and is slightly less readable.

D removes "@" from the email entirely, losing the separation between username and domain, and ends up duplicating values in both fields.

Therefore, Option B is the most accurate and reliable solution according to Apache Spark 3.5 best practices.

### NEW QUESTION # 83

A Spark application suffers from too many small tasks due to excessive partitioning. How can this be fixed without a full shuffle?  
Options:

- A. Use the `repartition()` transformation with a lower number of partitions
- B. Use the `distinct()` transformation to combine similar partitions
- C. **Use the `coalesce()` transformation with a lower number of partitions**
- D. Use the `sortBy()` transformation to reorganize the data

**Answer: C**

Explanation:

`coalesce(n)` reduces the number of partitions without triggering a full shuffle, unlike `repartition()`.

This is ideal when reducing partition count, especially during write operations.

Reference:Spark API - `coalesce`

## NEW QUESTION # 84

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