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### Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q101-Q106):

#### NEW QUESTION # 101

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

**Answer: A**

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.

#### NEW QUESTION # 102

A data engineer wants to write a Spark job that creates a new managed table. If the table already exists, the job should fail and not modify anything.

Which save mode and method should be used?

- A. saveAsTable with mode ErrorIfExists
- B. save with mode Ignore
- C. save with mode ErrorIfExists
- D. saveAsTable with mode Overwrite

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation:

The method saveAsTable() creates a new table and optionally fails if the table exists.

From Spark documentation:

"The mode 'ErrorIfExists' (default) will throw an error if the table already exists." Thus:

Option A is correct.

Option B (Overwrite) would overwrite existing data - not acceptable here.

Option C and D uses save(), which doesn't create a managed table with metadata in the metastore.

Final Answer: A

#### NEW QUESTION # 103

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

```
1. aggDF \
2.     .writeToDatabricks
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. complete
- B. append
- C. replace
- D. aggregate

**Answer: A**

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 # 104

A Spark developer is building an app to monitor task performance. They need to track the maximum task processing time per worker node and consolidate it on the driver for analysis.

Which technique should be used?

- A. Use an RDD action like reduce() to compute the maximum time
- B. Configure the Spark UI to automatically collect maximum times
- C. Broadcast a variable to share the maximum time among workers
- D. Use an accumulator to record the maximum time on the driver

**Answer: A**

Explanation:

The correct way to aggregate information (e.g., max value) from distributed workers back to the driver is using RDD actions such as reduce() or aggregate().

From the documentation:

"To perform global aggregations on distributed data, actions like reduce() are commonly used to collect summaries such as min/max/avg." Accumulators (Option B) do not support max operations directly and are not intended for such analytics.

Broadcast (Option C) is used to send data to workers, not collect from them.

Spark UI (Option D) is a monitoring tool - not an analytics collection interface.

Final answer: A

#### NEW QUESTION # 105

30 of 55.

A data engineer is working on a num\_df DataFrame and has a Python UDF defined as:

```
def cube_func(val):
    return val * val * val
```

Which code fragment registers and uses this UDF as a Spark SQL function to work with the DataFrame num\_df?

- A. spark.createDataFrame(cube\_func("num")).show()
- B. spark.udf.register("cube\_func", cube\_func)
 num\_df.selectExpr("cube\_func(num)").show()
- C. num\_df.select(cube\_func("num")).show()
- D. num\_df.register("cube\_func").select("num").show()

## Answer: B

Explanation:

To use a Python function as a UDF (User Defined Function) in Spark SQL, it must first be registered using `spark.udf.register()`.

Correct usage:

```
spark.udf.register("cube_func", cube_func)
num_df.selectExpr("cube_func(num)").show()
```

This registers `cube_func` as a callable SQL function available in expressions or queries.

Why the other options are incorrect:

B: You must wrap with `udf()` or `selectExpr`; calling plain Python functions won't work.

C: `createDataFrame` is for building DataFrames, not calling UDFs.

D: DataFrames cannot directly register UDFs.

Reference:

PySpark SQL Functions - `spark.udf.register()` and `selectExpr()`.

Databricks Exam Guide (June 2025): Section "Using Spark SQL" - user-defined functions and Spark SQL integration.

## NEW QUESTION # 106

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