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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q61-Q66):

NEW QUESTION # 61

Given:

python

CopyEdit

```
spark.sparkContext.setLogLevel("<LOG_LEVEL>")
```

Which set contains the suitable configuration settings for Spark driver LOG_LEVELs?

- A. WARN, NONE, ERROR, FATAL
- **B. ERROR, WARN, TRACE, OFF**
- C. FATAL, NONE, INFO, DEBUG
- D. ALL, DEBUG, FAIL, INFO

Answer: B

Explanation:

The setLogLevel() method of SparkContext sets the logging level on the driver, which controls the verbosity of logs emitted during job execution. Supported levels are inherited from log4j and include the following:

ALL
DEBUG
ERROR
FATAL
INFO
OFF
TRACE
WARN

According to official Spark and Databricks documentation:

"Valid log levels include: ALL, DEBUG, ERROR, FATAL, INFO, OFF, TRACE, and WARN." Among the choices provided, only option B (ERROR, WARN, TRACE, OFF) includes four valid log levels and excludes invalid ones like "FAIL" or "NONE".

NEW QUESTION # 62

A developer wants to refactor some older Spark code to leverage built-in functions introduced in Spark 3.5.0.

The existing code performs array manipulations manually. Which of the following code snippets utilizes new built-in functions in Spark 3.5.0 for array operations?

```
import pyspark.sql.functions as F

min_price = 110.50

result_df = prices_df \
    .filter(F.col("spot_price") >= F.lit(min_price)) \
    .agg(F.count("*"))
```

A)

```
result_df = prices_df \
    .withColumn("valid_price", F.when(F.col("spot_price") > F.lit(min_price), 1).otherwise(0))
```

B)

```
result_df = prices_df \
    .agg(F.count_if(F.col("spot_price") >= F.lit(min_price)))
```

C)

```
result_df = prices_df \
    .agg(F.min("spot_price"), F.max("spot_price"))
```

D)

```
result_df = prices_df \
    .agg(F.count("spot_price").alias("spot_price")) \
    .filter(F.col("spot_price") > F.lit("min_price"))
```

- A. result_df = prices_df \
 .agg(F.count("spot_price").alias("spot_price")) \
 .filter(F.col("spot_price") > F.lit("min_price"))
- B. result_df = prices_df \
 .agg(F.min("spot_price"), F.max("spot_price"))
- C. result_df = prices_df \
 .agg(F.count_if(F.col("spot_price") >= F.lit(min_price)))
- D. result_df = prices_df \
 .withColumn("valid_price", F.when(F.col("spot_price") > F.lit(min_price), 1).otherwise(0))

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct answer is B because it uses the new function `count_if`, introduced in Spark 3.5.0, which simplifies conditional counting within aggregations.

* `F.count_if(condition)` counts the number of rows that meet the specified boolean condition.

* In this example, it directly counts how many times `spot_price >= min_price` evaluates to true, replacing the older verbose combination of `when/otherwise` and filtering or summing.

Official Spark 3.5.0 documentation notes the addition of `count_if` to simplify this kind of logic:

"Added `count_if` aggregate function to count only the rows where a boolean condition holds (SPARK-43773)."

Why other options are incorrect or outdated:

* A uses a legacy-style method of adding a flag column (`when().otherwise()`), which is verbose compared to `count_if`.

* C performs a simple min/max aggregation-useful but unrelated to conditional array operations or the updated functionality.

* D incorrectly applies `.filter()` after `.agg()` which will cause an error, and misuses string `"min_price"` rather than the variable.

Therefore, B is the only option leveraging new functionality from Spark 3.5.0 correctly and efficiently.

NEW QUESTION # 63

15 of 55.

A data engineer is working on a Streaming DataFrame (`streaming_df`) with the following streaming data:

id

name

count

timestamp

1

Delhi

20

2024-09-19T10:11

1

Delhi

50

2024-09-19T10:12

2

London

50

2024-09-19T10:15

3

Paris

30

2024-09-19T10:18

3

Paris

20

2024-09-19T10:20

4

Washington

10

2024-09-19T10:22

Which operation is supported with `streaming_df`?

- A. `streaming_df.count()`
- B. `streaming_df.filter("count < 30")`
- C. `streaming_df.select(countDistinct("name"))`
- D. `streaming_df.show()`

Answer: B

Explanation:

In Structured Streaming, only transformation operations are allowed on streaming DataFrames. These include `select()`, `filter()`, `where()`, `groupBy()`, `withColumn()`, etc.

Example of supported transformation:

```
filtered_df = streaming_df.filter("count < 30")
```

However, actions such as `count()`, `show()`, and `collect()` are not supported directly on streaming DataFrames because streaming queries are unbounded and never finish until stopped.

To perform aggregations, the query must be executed through `writeStream` and an output sink.

Why the other options are incorrect:

A: `count()` is an action, not allowed directly on streaming DataFrames.

C: `countDistinct()` is a stateful aggregation, not supported outside of a proper streaming query.

D: `show()` is also an action, unsupported on streaming queries.

Reference:

PySpark Structured Streaming Programming Guide - supported transformations and actions.

Databricks Exam Guide (June 2025): Section "Structured Streaming" - performing operations on streaming DataFrames and understanding supported transformations.

NEW QUESTION # 64

A developer is running Spark SQL queries and notices underutilization of resources. Executors are idle, and the number of tasks per stage is low.

What should the developer do to improve cluster utilization?

- A. Enable dynamic resource allocation to scale resources as needed
- B. Increase the size of the dataset to create more partitions
- C. Increase the value of `spark.sql.shuffle.partitions`
- D. Reduce the value of `spark.sql.shuffle.partitions`

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The number of tasks is controlled by the number of partitions. By default, `spark.sql.shuffle.partitions` is 200. If stages are showing very few tasks (less than total cores), you may not be leveraging full parallelism.

From the Spark tuning guide:

"To improve performance, especially for large clusters, increasespark.sql.shuffle.partitionsto create more tasks and parallelism."
Thus:

A is correct: increasing shuffle partitions increases parallelism

B is wrong: it further reduces parallelism

C is invalid: increasing dataset size doesn't guarantee more partitions D is irrelevant to task count per stage Final Answer: A

NEW QUESTION # 65

6 of 55.

Which components of Apache Spark's Architecture are responsible for carrying out tasks when assigned to them?

- A. Executors
- B. CPU Cores
- C. Worker Nodes
- D. Driver Nodes

Answer: A

Explanation:

In Spark's distributed architecture:

The Driver Node coordinates the execution of a Spark application. It converts the logical plan into a physical plan of stages and tasks.

The Executors, running on Worker Nodes, are responsible for executing tasks assigned by the driver and storing data (in memory or disk) during execution.

Key point:

Executors are the active agents that perform the actual computations on data partitions. Each executor runs multiple tasks in parallel using available CPU cores.

Why the other options are incorrect:

A (Driver Nodes): The driver schedules tasks; it doesn't execute them.

C (CPU Cores): CPU cores execute within executors, but they are hardware, not Spark architectural components.

D (Worker Nodes): Worker nodes host executors but do not directly execute tasks; executors do.

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

Spark Architecture Components - Driver, Executors, Cluster Manager, Worker Nodes.

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - describes the roles of driver and executor nodes in distributed processing.

NEW QUESTION # 66

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