

Associate-Developer-Apache-Spark-3.5 Latest Test Simulator, Associate-Developer-Apache-Spark-3.5 Reliable Test Tips



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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q94-Q99):

NEW QUESTION # 94

31 of 55.

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

```
df.repartition(20)
```

How many partitions will the result DataFrame have?

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

Answer: A

Explanation:

The repartition(n) transformation reshuffles data into exactly n partitions.

Unlike coalesce(), repartition() always causes a shuffle to evenly redistribute the data.

Correct behavior:

```
df2 = df.repartition(20)
```

```
df2.rdd.getNumPartitions() # returns 20
```

Thus, the resulting DataFrame will have 20 partitions.

Why the other options are incorrect:

A/D: Doesn't retain old partition count - it's explicitly set to 20.

C: Number of partitions is not automatically tied to executors.

Reference:

PySpark DataFrame API - repartition() vs. coalesce().

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - tuning partitioning and shuffling for performance.

NEW QUESTION # 95

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

Answer: B

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 # 96

42 of 55.

A developer needs to write the output of a complex chain of Spark transformations to a Parquet table called events.liveLatest.

Consumers of this table query it frequently with filters on both year and month of the event_ts column (a timestamp).

The current code:

```
from pyspark.sql import functions as F
```

```
final = df.withColumn("event_year", F.year("event_ts")) \
```

```
.withColumn("event_month", F.month("event_ts")) \
.bucketBy(42, ["event_year", "event_month"]) \
.saveAsTable("events.liveLatest")
```

However, consumers report poor query performance.

Which change will enable efficient querying by year and month?

- A. Replace `.bucketBy()` with `.partitionBy("event_year")` only
- **B. Replace `.bucketBy()` with `.partitionBy("event_year", "event_month")`**
- C. Change the bucket count (42) to a lower number
- D. Add `.sortBy()` after `.bucketBy()`

Answer: B

Explanation:

When queries frequently filter on certain columns, partitioning by those columns ensures partition pruning, allowing Spark to scan only relevant directories instead of the entire dataset.

Correct code:

`final.write.partitionBy("event_year", "event_month").parquet("events.liveLatest")` This improves read performance dramatically for filters like:

`SELECT * FROM events.liveLatest WHERE event_year = 2024 AND event_month = 5;` `bucketBy()` helps in clustering and joins, not in partition pruning for file-based tables.

Why the other options are incorrect:

B: Bucket count changes parallelism, not query pruning.

C: `sortBy` organizes data within files, not across partitions.

D: Partitioning by only one column limits pruning benefits.

Reference:

Spark SQL `DataFrameWriter` - `partitionBy()` for partitioned tables.

Databricks Exam Guide (June 2025): Section "Using Spark SQL" - partitioning vs. bucketing and query optimization.

NEW QUESTION # 97

40 of 55.

A developer wants to refactor older Spark code to take advantage of built-in functions introduced in Spark 3.5.

The original code:

```
from pyspark.sql import functions as F
```

```
min_price = 110.50
```

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

 Which code block should the developer use to refactor the code?

- **A. `result_df = prices_df.filter(F.col("price") > F.lit(min_price)).agg(F.count("*"))`**
- B. `result_df = prices_df.withColumn("valid_price", when(col("price") > F.lit(min_price), True))`
- C. `result_df = prices_df.filter(F.lit(min_price) > F.col("price")).count()`
- D. `result_df = prices_df.where(F.lit("price") > min_price).groupBy().count()`

Answer: A

Explanation:

To compare a column value with a Python literal constant in a DataFrame expression, use `F.lit()` to convert it into a Spark literal.

Correct refactor:

```
from pyspark.sql import functions as F
```

```
min_price = 110.50
```

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

 This avoids type mismatches and ensures Spark executes the filter expression on the cluster.

Why the other options are incorrect:

B: `where()` syntax is valid, but `F.lit("price")` is incorrect - wraps string literal, not a column.

C: `withColumn` adds a column, not needed for this aggregation.

D: Comparison logic reversed.

Reference:

PySpark SQL Functions - `lit()`, `col()`, and DataFrame filters.

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - filtering, literals, and aggregations.

NEW QUESTION # 98

An engineer notices a significant increase in the job execution time during the execution of a Spark job. After some investigation, the engineer decides to check the logs produced by the Executors.

How should the engineer retrieve the Executor logs to diagnose performance issues in the Spark application?

- A. Use the Spark UI to select the stage and view the executor logs directly from the stages tab.
- B. Use the command `spark-submit` with the `-verbose` flag to print the logs to the console.
- C. Fetch the logs by running a Spark job with the `spark-sql` CLI tool.
- D. Locate the executor logs on the Spark master node, typically under the `/tmp` directory.

Answer: A

Explanation:

The Spark UI is the standard and most effective way to inspect executor logs, task time, input size, and shuffles.

From the Databricks documentation:

"You can monitor job execution via the Spark Web UI. It includes detailed logs and metrics, including task-level execution time, shuffle reads/writes, and executor memory usage." (Source: Databricks Spark Monitoring Guide) Option A is incorrect: logs are not guaranteed to be in `/tmp`, especially in cloud environments.

B. `-verbose` helps during job submission but doesn't give detailed executor logs.

D. `spark-sql` is a CLI tool for running queries, not for inspecting logs.

Hence, the correct method is using the Spark UI → Stages tab → Executor logs.

NEW QUESTION # 99

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