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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q83-Q88):

NEW QUESTION # 83

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

Answer: B

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 # 84

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

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The groupBy() operation causes a shuffle because it requires all values for a specific key to be brought together, which may involve moving data across partitions.

In contrast:

filter() and select() are narrow transformations and do not cause shuffles.

coalesce() tries to reduce the number of partitions and avoids shuffling by moving data to fewer partitions without a full shuffle (unlike repartition()).

Reference: Apache Spark - Understanding Shuffle

NEW QUESTION # 85

Given a DataFrame df 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. Same number as the cluster executors
- D. 2

Answer: A

Explanation:

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.

NEW QUESTION # 86

A Spark developer wants to improve the performance of an existing PySpark UDF that runs a hash function that is not available in the standard Spark functions library. The existing UDF code is:

```
import hashlib
import pyspark.sql.functions as sf
from pyspark.sql.types import StringType

def shake_256(raw):
    return hashlib.shake_256(raw.encode()).hexdigest(20)

shake_256_udf = sf.udf(shake_256, StringType())
```

```
import hashlib
import pyspark.sql.functions as sf
from pyspark.sql.types import StringType
def shake_256(raw):
    return hashlib.shake_256(raw.encode()).hexdigest(20)
shake_256_udf = sf.udf(shake_256, StringType())
```

The developer wants to replace this existing UDF with a Pandas UDF to improve performance. The developer changes the definition of shake_256_udf to this: CopyEdit shake_256_udf = sf.pandas_udf(shake_256, StringType()) However, the developer receives the error:

What should the signature of the shake_256() function be changed to in order to fix this error?

- A. def shake_256(df: pd.Series) -> str:
- **B. def shake_256(df: pd.Series) -> pd.Series:**
- C. def shake_256(raw: str) -> str:
- D. def shake_256(df: Iterator[pd.Series]) -> Iterator[pd.Series]:

Answer: B

Explanation:

When converting a standard PySpark UDF to a Pandas UDF for performance optimization, the function must operate on a Pandas Series as input and return a Pandas Series as output.

In this case, the original function signature:

```
def shake_256(raw: str) -> str
```

is scalar - not compatible with Pandas UDFs.

According to the official Spark documentation:

"Pandas UDFs operate on pandas.Series and return pandas.Series. The function definition should be:

```
def my_udf(s: pd.Series) -> pd.Series:
```

and it must be registered using pandas_udf(...)."

Therefore, to fix the error:

The function should be updated to:

```
def shake_256(df: pd.Series) -> pd.Series:
```

```
    return df.apply(lambda x: hashlib.shake_256(x.encode()).hexdigest(20))
```

This will allow Spark to efficiently execute the Pandas UDF in vectorized form, improving performance compared to standard UDFs.

NEW QUESTION # 87

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

Answer: D

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 # 88

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