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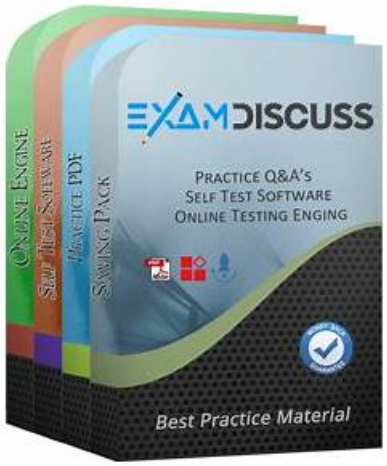

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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q62-Q67):

NEW QUESTION # 62
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. Use an accumulator to record the maximum time on the driver
- C. Configure the Spark UI to automatically collect maximum times
- D. Broadcast a variable to share the maximum time among workers

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The correct way to aggregate information (e.g., max value) from distributed workers back to the driver is using RDD actions such asreduce()oraggregate().
From the documentation:
"To perform global aggregations on distributed data, actions likereduce()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 # 63
A Spark DataFrame df is cached using the MEMORY_AND_DISK storage level, but the DataFrame is too large to fit entirely in memory.
What is the likely behavior when Spark runs out of memory to store the DataFrame?

- A. Spark splits the DataFrame evenly between memory and disk, ensuring balanced storage utilization.
- B. Spark duplicates the DataFrame in both memory and disk. If it doesn't fit in memory, the DataFrame is stored and retrieved from the disk entirely.
- C. Spark stores the frequently accessed rows in memory and less frequently accessed rows on disk, utilizing both resources to offer balanced performance.
- D. Spark will store as much data as possible in memory and spill the rest to disk when memory is full, continuing processing with performance overhead.

Answer: D

Explanation:
When using the MEMORY_AND_DISK storage level, Spark attempts to cache as much of the DataFrame in memory as possible. If the DataFrame does not fit entirely in memory, Spark will store the remaining partitions on disk. This allows processing to continue, albeit with a performance overhead due to disk I/O.
As per the Spark documentation:
"MEMORY_AND_DISK: It stores partitions that do not fit in memory on disk and keeps the rest in memory. This can be useful when working with datasets that are larger than the available memory."
- Perficient Blogs: Spark - StorageLevel
This behavior ensures that Spark can handle datasets larger than the available memory by spilling excess data to disk, thus preventing job failures due to memory constraints.

NEW QUESTION # 64
Given the code:

```
df = spark.read.csv("large_dataset.csv")
filtered_df = df.filter(col("error_column")
              .contains("error"))
mapped_df = filtered_df.select(split(col("timestamp"), " ").getItem(0).alias("date"),
lit(1).alias("count"))
reduced_df = mapped_df.groupBy("date").sum("count")
reduced_df.count()
reduced_df.show()
```


df = spark.read.csv("large_dataset.csv")
filtered_df = df.filter(col("error_column").contains("error"))
mapped_df = filtered_df.select(split(col("timestamp")," ").getItem(0).alias("date"), lit(1).alias("count")) reduced_df = mapped_df.groupBy("date").sum("count") reduced_df.count() reduced_df.show() At which point will Spark actually begin processing the data?

- A. When the count action is applied
- B. When the groupBy transformation is applied
- C. When the filter transformation is applied
- D. When the show action is applied

Answer: A

Explanation:
Spark uses lazy evaluation. Transformations like filter, select, and groupBy only define the DAG (Directed Acyclic Graph). No execution occurs until an action is triggered.
The first action in the code is:reduced_df.count()
So Spark starts processing data at this line.
Reference:Apache Spark Programming Guide - Lazy Evaluation

NEW QUESTION # 65
Given the code fragment:

```
import pyspark.pandas as ps
psdf = ps.DataFrame({'col1': [1, 2], 'col2': [3, 4]})
```

import pyspark.pandas as ps
psdf = ps.DataFrame({'col1': [1, 2], 'col2': [3, 4]})
Which method is used to convert a Pandas API on Spark DataFrame (pyspark.pandas.DataFrame) into a standard PySpark DataFrame (pyspark.sql.DataFrame)?

- A. psdf.to_spark()
- B. psdf.to_dataframe()
- C. psdf.to_pandas()
- D. psdf.to_pyspark()

Answer: A

Explanation:
Pandas API on Spark (pyspark.pandas) allows interoperability with PySpark DataFrames. To convert a pyspark.pandas.DataFrame to a standard PySpark DataFrame, you use .to_spark().
Example:
df = psdf.to_spark()
This is the officially supported method as per Databricks Documentation.
Incorrect options:
B, D: Invalid or nonexistent methods.
C: Converts to a local pandas DataFrame, not a PySpark DataFrame.

NEW QUESTION # 66
A data scientist is working on a project that requires processing large amounts of structured data, performing SQL queries, and applying machine learning algorithms. The data scientist is considering using Apache Spark for this task.

Which combination of Apache Spark modules should the data scientist use in this scenario?
Options:

- A. Spark DataFrames, Structured Streaming, and GraphX
- B. Spark SQL, Pandas API on Spark, and Structured Streaming
- C. Spark Streaming, GraphX, and Pandas API on Spark
- D. Spark DataFrames, Spark SQL, and MLlib

Answer: D

Explanation:
Comprehensive
To cover structured data processing, SQL querying, and machine learning in Apache Spark, the correct combination of components is:
Spark DataFrames: for structured data processing
Spark SQL: to execute SQL queries over structured data
MLlib: Spark's scalable machine learning library
This trio is designed for exactly this type of use case.
Why other options are incorrect:
A: GraphX is for graph processing - not needed here.
B: Pandas API on Spark is useful, but MLlib is essential for ML, which this option omits.
C: Spark Streaming is legacy; GraphX is irrelevant here.

NEW QUESTION # 67
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