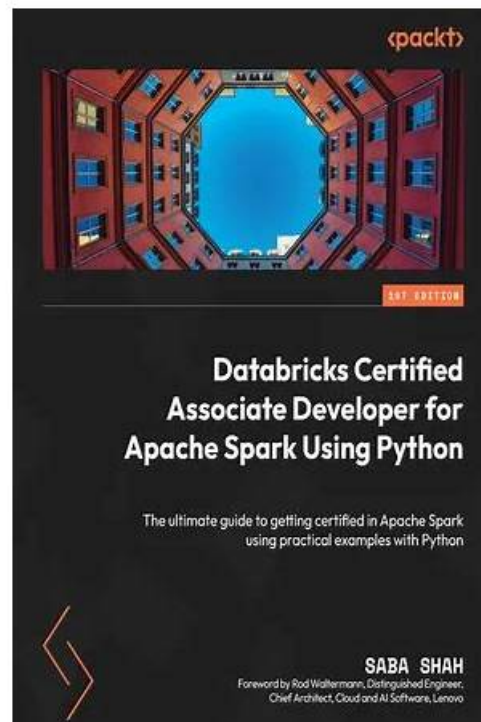# Book Associate-Developer-Apache-Spark-3.5 Free, Reliable Associate-Developer-Apache-Spark-3.5 Mock Test

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Databricks Certified Associate Developer for Apache Spark Using Python

The ultimate guide to getting certified in Apache Spark using practical examples with Python

SABA SHAH

Foreword by Rod Waltermann, Distinguished Engineer, Chief Architect, Cloud and AI Software, Lenovo

1ST EDITION

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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q23-Q28):

NEW QUESTION # 23
A data analyst wants to add a column date derived from a timestamp column.
Options:

- A. dates_df.withColumn("date", f.to_date("timestamp")).show()
- B. dates_df.withColumn("date", f.date_format("timestamp", "yyyy-MM-dd")).show()
- C. dates_df.withColumn("date", f.unix_timestamp("timestamp")).show()
- D. dates_df.withColumn("date", f.from_unixtime("timestamp")).show()

Answer: A

Explanation:
f.to_date() converts a timestamp or string to a DateType.
Ideal for extracting the date component (year-month-day) from a full timestamp.
Example:
from pyspark.sql.functions import to_date
dates_df.withColumn("date", to_date("timestamp"))

NEW QUESTION # 24
In the code block below, aggDF contains aggregations on a streaming DataFrame:

```
1. aggDF \
2.     .writeStream \
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. aggregate
- D. replace

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:

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

Reference: Spark Structured Streaming Programming Guide # Output Modes

NEW QUESTION # 25

A developer is working with a pandas DataFrame containing user behavior data from a web application.

Which approach should be used for executing a groupBy operation in parallel across all workers in Apache Spark 3.5?

A)

Use the applyInPandas API

B)

```
import pandas as pd
def mean_func(key, pdf):
    return pd.DataFrame([key + (pdf['value'].mean(),)])

df.groupby('user_id').applyInPandas(mean_func, schema="user_id long, value double").show()
```
Utilize the **mapInPandas** API:

C)

```
df.mapInPandas(mean_func, schema="user_id long, value double").show()
```
Use a regular **Spark UDF** (User-Defined Function):

```
from pyspark.sql.functions import mean
df.groupBy('user_id').agg(mean('value')).show()
```

D)

```
Create a Pandas UDF (User-Defined Function):

from pyspark.sql.functions import pandas_udf

@pandas_udf("double")
def mean_func(value: pd.Series) -> float:
    return value.mean()

df.groupby("user_id").agg(mean_func(df['value'])).show()
```

- A. Use a Pandas UDF:
  @pandas_udf("double")
  def mean_func(value: pd.Series) -> float:
  return value.mean()
  df.groupby("user_id").agg(mean_func(df["value"])).show()
- B. Use a regular Spark UDF:
  from pyspark.sql.functions import mean
  df.groupBy("user_id").agg(mean("value")).show()
- C. Use the mapInPandas API:
  df.mapInPandas(mean_func, schema="user_id long, value double").show()
- D. Use the applyInPandas API:
  df.groupby("user_id").applyInPandas(mean_func, schema="user_id long, value double").show()

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct approach to perform a parallelized groupBy operation across Spark worker nodes using Pandas API is via applyInPandas. This function enables grouped map operations using Pandas logic in a distributed Spark environment. It applies a

user-defined function to each group of data represented as a Pandas DataFrame.

As per the Databricks documentation:

"applyInPandas()allows for vectorized operations on grouped data in Spark. It applies a user-defined function to each group of a DataFrame and outputs a new DataFrame. This is the recommended approach for using Pandas logic across grouped data with parallel execution." Option A is correct and achieves this parallel execution.

Option B (mapInPandas) applies to the entire DataFrame, not grouped operations.

Option C uses built-in aggregation functions, which are efficient but not customizable with Pandas logic.

Option D creates a scalar Pandas UDF which does not perform a group-wise transformation.

Therefore, to run agroupBywith parallel Pandas logic on Spark workers, Option A usingapplyInPandasis the only correct answer.

Reference: Apache Spark 3.5 Documentation # Pandas API on Spark # Grouped Map Pandas UDFs (applyInPandas)

NEW QUESTION # 26

What is a feature of Spark Connect?

- A. Supports DataFrame, Functions, Column, SparkContext PySpark APIs
- B. It supports DataStreamReader, DataStreamWriter, StreamingQuery, and Streaming APIs
- C. It supports only PySpark applications
- D. It has built-in authentication

Answer: B

Explanation:

Spark Connect is a client-server architecture introduced in Apache Spark 3.4, designed to decouple the client from the Spark driver, enabling remote connectivity to Spark clusters.

According to the Spark 3.5.5 documentation:

"Majority of the Streaming API is supported, including DataStreamReader, DataStreamWriter, StreamingQuery and StreamingQueryListener." This indicates that Spark Connect supports key components of Structured Streaming, allowing for robust streaming data processing capabilities.

Regarding other options:

B . While Spark Connect supports DataFrame, Functions, and Column APIs, it does not support SparkContext and RDD APIs.

C . Spark Connect supports multiple languages, including PySpark and Scala, not just PySpark.

D . Spark Connect does not have built-in authentication but is designed to work seamlessly with existing authentication infrastructures.

NEW QUESTION # 27

An engineer has a large ORC file located at/file/test_data.orcand wants to read only specific columns to reduce memory usage.

Which code fragment will select the columns, i.e.,col1,col2, during the reading process?

- A. spark.read.orc("/file/test_data.orc").filter("col1 = 'value' ").select("col2")
- B. spark.read.format("orc").select("col1", "col2").load("/file/test_data.orc")
- C. spark.read.orc("/file/test_data.orc").selected("col1", "col2")
- D. spark.read.format("orc").load("/file/test_data.orc").select("col1", "col2")

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct way to load specific columns from an ORC file is to first load the file using.load()and then apply.

select()on the resulting DataFrame. This is valid with.read.format("orc")or the shortcut.read.orc().

df = spark.read.format("orc").load("/file/test_data.orc").select("col1","col2") Why others are incorrect:

Aperforms selection after filtering, but doesn't match the intention to minimize memory at load.

Bincorrectly tries to use.select()before.load(), which is invalid.

Cuses a non-existent.selected()method.

Dcorrectly loads and then selects.

Reference:Apache Spark SQL API - ORC Format

NEW QUESTION # 28

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