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1. Difference Between Hadoop and Spark

Apache Hadoop is a platform that got its start as a Yahoo project in 2006, which became a top-level Apache open-source project afterward. This framework handles large datasets in a distributed fashion. The Hadoop ecosystem is highly fault-tolerant and does not depend upon hardware to achieve high availability. This framework is designed with a vision to look for the failures at the application layer. It's a general-purpose form of distributed processing that has several components:

- ▶ Hadoop Distributed File System (HDFS): This stores files in a Hadoop-native format and parallelizes them across a cluster. It manages the storage of large sets of data across a Hadoop Cluster. Hadoop can handle both structured and unstructured data.
- ▶ YARN: YARN is Yet Another Resource Negotiator. It is a schedule that coordinates application runtimes.
- ▶ MapReduce: It is the algorithm that actually processes the data in parallel to combine the pieces into the desired result.
- ▶ Hadoop Common: It is also known as Hadoop Core and it provides support to all other components it has a set of common libraries and utilities that all other modules depend on.

▶ Hadoop is built in Java, and accessible through many programming languages, for writing MapReduce code, including Python, through a Thrift client. It's available either open-source through the Apache distribution, or through vendors such as Cloudera (the largest Hadoop vendor by size and scope), MapR, or HortonWorks.

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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q104-Q109):

NEW QUESTION # 104

30 of 55.

A data engineer is working on a num_df DataFrame and has a Python UDF defined as:

```
def cube_func(val):  
    return val * val * val
```

Which code fragment registers and uses this UDF as a Spark SQL function to work with the DataFrame num_df?

- A. spark.udf.register("cube_func", cube_func)
num_df.selectExpr("cube_func(num)").show()
- B. num_df.select(cube_func("num")).show()
- C. num_df.register("cube_func").select("num").show()
- D. spark.createDataFrame(cube_func("num")).show()

Answer: A

Explanation:

To use a Python function as a UDF (User Defined Function) in Spark SQL, it must first be registered using spark.udf.register().

Correct usage:

```
spark.udf.register("cube_func", cube_func)  
num_df.selectExpr("cube_func(num)").show()
```

This registers cube_func as a callable SQL function available in expressions or queries.

Why the other options are incorrect:

B: You must wrap with udf() or selectExpr; calling plain Python functions won't work.

C: createDataFrame is for building DataFrames, not calling UDFs.

D: DataFrames cannot directly register UDFs.

Reference:

PySpark SQL Functions - spark.udf.register() and selectExpr().

Databricks Exam Guide (June 2025): Section "Using Spark SQL" - user-defined functions and Spark SQL integration.

NEW QUESTION # 105

You have:

DataFrame A: 128 GB of transactions

DataFrame B: 1 GB user lookup table

Which strategy is correct for broadcasting?

- A. DataFrame B should be broadcasted because it is smaller and will eliminate the need for shuffling itself
- B. DataFrame A should be broadcasted because it is larger and will eliminate the need for shuffling DataFrame B
- C. DataFrame A should be broadcasted because it is smaller and will eliminate the need for shuffling itself
- D. DataFrame B should be broadcasted because it is smaller and will eliminate the need for shuffling DataFrame A

Answer: D

Explanation:

Comprehensive and Detailed Explanation:

Broadcast joins work by sending the smaller DataFrame to all executors, eliminating the shuffle of the larger DataFrame.

From Spark documentation:

"Broadcast joins are efficient when one DataFrame is small enough to fit in memory. Spark avoids shuffling the larger table."

DataFrame B (1 GB) fits within the default threshold and should be broadcasted.

It eliminates the need to shuffle the large DataFrame A.

Final Answer: B

NEW QUESTION # 106

A data engineer is streaming data from Kafka and requires:

Minimal latency

Exactly-once processing guarantees

Which trigger mode should be used?

- A. .trigger(continuous='1 second')
- B. .trigger(availableNow=True)
- C. .trigger(processingTime='1 second')
- D. .trigger(continuous=True)

Answer: C

Explanation:

Exactly-once guarantees in Spark Structured Streaming require micro-batch mode (default), not continuous mode.

Continuous mode (.trigger(continuous=...)) only supports at-least-once semantics and lacks full fault-tolerance.

trigger(availableNow=True) is a batch-style trigger, not suited for low-latency streaming.

So:

Option A uses micro-batching with a tight trigger interval → minimal latency + exactly-once guarantee.

Final answer: A

NEW QUESTION # 107

A data engineer wants to create an external table from a JSON file located at /data/input.json with the following requirements:

Create an external table named users

Automatically infer schema

Merge records with differing schemas

Which code snippet should the engineer use?

Options:

- A. CREATE EXTERNAL TABLE users USING json OPTIONS (path '/data/input.json', schemaMerge 'true')
- B. CREATE EXTERNAL TABLE users USING json OPTIONS (path '/data/input.json', mergeSchema 'true')
- C. CREATE EXTERNAL TABLE users USING json OPTIONS (path '/data/input.json')
- D. CREATE TABLE users USING json OPTIONS (path '/data/input.json')

Answer: B

Explanation:

To create an external table and enable schema merging, the correct syntax is:

CREATEEXTERNALTABLEusers

USINGjson

OPTIONS (

path'/data/input.json',

mergeSchema'true'

)

mergeSchema is the correct option key (not schemaMerge)

EXTERNAL allows Spark to query files without managing their lifecycle

Reference: Spark SQL DDL - JSON and Schema Merging

NEW QUESTION # 108

You have:

DataFrame A: 128 GB of transactions

DataFrame B: 1 GB user lookup table

Which strategy is correct for broadcasting?

- A. DataFrame B should be broadcasted because it is smaller and will eliminate the need for shuffling itself
- B. DataFrame A should be broadcasted because it is larger and will eliminate the need for shuffling DataFrame B
- C. DataFrame A should be broadcasted because it is smaller and will eliminate the need for shuffling itself
- D. **DataFrame B should be broadcasted because it is smaller and will eliminate the need for shuffling DataFrame A**

Answer: D

Explanation:

Broadcast joins work by sending the smaller DataFrame to all executors, eliminating the shuffle of the larger DataFrame.

From Spark documentation:

"Broadcast joins are efficient when one DataFrame is small enough to fit in memory. Spark avoids shuffling the larger table." DataFrame B (1 GB) fits within the default threshold and should be broadcasted.

It eliminates the need to shuffle the large DataFrame A.

Final answer: B

NEW QUESTION # 109

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