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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q76-Q81):

NEW QUESTION # 76

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

Answer: A

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 # 77

The following code fragment results in an error:

```
@F.udf(T.IntegerType())
def simple_udf(t: str) -> str:
    return answer * 3.14159
```

Which code fragment should be used instead?

- A. @F.udf(T.IntegerType())


```
def simple_udf(t: float) -> float:
    return t * 3.14159
```
- B. @F.udf(T.IntegerType())


```
def simple_udf(t: int) -> int:
    return t * 3.14159
```
- C. @F.udf(T.DoubleType())


```
def simple_udf(t: float) -> float:
    return t * 3.14159
```
- D. @F.udf(T.DoubleType())


```
def simple_udf(t: int) -> int:
    return t * 3.14159
```

Answer: C

Explanation:

The original code has several issues:

It references a variable answer that is undefined.

The function is annotated to return a str, but the logic attempts numeric multiplication.

The UDF return type is declared as T.IntegerType() but the function performs a floating-point operation, which is incompatible.

Option B correctly:

Uses DoubleType to reflect the fact that the multiplication involves a float (3.14159).

Declares the input as float, which aligns with the multiplication.

Returns a float, which matches both the logic and the schema type annotation.

This structure aligns with how PySpark expects User Defined Functions (UDFs) to be declared:

"To define a UDF you must specify a Python function and provide the return type using the relevant Spark SQL type (e.g., DoubleType for float results)." Example from official documentation:

```
from pyspark.sql.functions import udf
from pyspark.sql.types import DoubleType
```

```

@udf(returnType=DoubleType())
def multiply_by_pi(x: float) -> float:
    return x * 3.14159

```

This makes Option B the syntactically and semantically correct choice.

NEW QUESTION # 78

Which feature of Spark Connect is considered when designing an application to enable remote interaction with the Spark cluster?

- A. It provides a way to run Spark applications remotely in any programming language
- B. It is primarily used for data ingestion into Spark from external sources
- **C. It allows for remote execution of Spark jobs**
- D. It can be used to interact with any remote cluster using the REST API

Answer: C

Explanation:

Spark Connect introduces a decoupled client-server architecture. Its key feature is enabling Spark job submission and execution from remote clients - in Python, Java, etc.

From Databricks documentation:

"Spark Connect allows remote clients to connect to a Spark cluster and execute Spark jobs without being co-located with the Spark driver." A is close, but "any language" is overstated (currently supports Python, Java, etc., not literally all).

B refers to REST, which is not Spark Connect's mechanism.

D is incorrect; Spark Connect isn't focused on ingestion.

Final answer: C

NEW QUESTION # 79

A DataFrame `df` has columns `name`, `age`, and `salary`. The developer needs to sort the DataFrame by `age` in ascending order and `salary` in descending order.

Which code snippet meets the requirement of the developer?

- **A. `df.orderBy("age", "salary", ascending=[True, False]).show()`**
- B. `df.sort("age", "salary", ascending=[True, True]).show()`
- C. `df.sort("age", "salary", ascending=[False, True]).show()`
- D. `df.orderBy(col("age").asc(), col("salary").desc()).show()`

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To sort a PySpark DataFrame by multiple columns with mixed sort directions, the correct usage is:

python

CopyEdit

`df.orderBy("age", "salary", ascending=[True, False])`

`age` will be sorted in ascending order

`salary` will be sorted in descending order

The `orderBy()` and `sort()` methods in PySpark accept a list of booleans to specify the sort direction for each column.

Documentation Reference: PySpark API - DataFrame.orderBy

NEW QUESTION # 80

A data scientist is working on a large dataset in Apache Spark using PySpark. The data scientist has a DataFrame `df` with columns `user_id`, `product_id`, and `purchase_amount` and needs to perform some operations on this data efficiently.

Which sequence of operations results in transformations that require a shuffle followed by transformations that do not?

- **A. `df.groupBy("user_id").agg(sum("purchase_amount").alias("total_purchase")).repartition(10)`**
- B. `df.withColumn("discount", df.purchase_amount * 0.1).select("discount")`
- C. `df.filter(df.purchase_amount > 100).groupBy("user_id").sum("purchase_amount")`
- D. `df.withColumn("purchase_date", current_date()).where("total_purchase > 50")`

Answer: A

Explanation:

Shuffling occurs in operations like groupBy, reduceByKey, or join-which cause data to be moved across partitions. The repartition() operation can also cause a shuffle, but in this context, it follows an aggregation.

In Option D, the groupBy followed by agg results in a shuffle due to grouping across nodes.

The repartition(10) is a partitioning transformation but does not involve a new shuffle since the data is already grouped.

This sequence - shuffle (groupBy) followed by non-shuffling (repartition) - is correct.

Option A does the opposite: the filter does not cause a shuffle, but groupBy does - this makes it the wrong order.

NEW QUESTION # 81

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