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## Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q50-Q55):

NEW QUESTION # 50

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

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

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.

Reference: Apache Spark 3.5 Documentation # User-Defined Functions # Pandas UDFs

## NEW QUESTION # 51

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

**Answer: C**

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

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```
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 # 52

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

**Answer: B**

Explanation:

Comprehensive and Detailed 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 # 53

An MLOps engineer is building a Pandas UDF that applies a language model that translates English strings into Spanish. The initial code is loading the model on every call to the UDF, which is hurting the performance of the data pipeline.

The initial code is:

```
def in_spanish_inner(df: pd.Series) -> pd.Series:
    model = get_translation_model(target_lang='es')
    return df.apply(model)

in_spanish = sf.pandas_udf(in_spanish_inner, StringType())
```

```
def in_spanish_inner(df: pd.Series) -> pd.Series:
    model = get_translation_model(target_lang='es')
    return df.apply(model)
in_spanish = sf.pandas_udf(in_spanish_inner, StringType())
```

How can the MLOps engineer change this code to reduce how many times the language model is loaded?

- A. Convert the Pandas UDF from a Series → Series UDF to an Iterator[Series] → Iterator[Series] UDF
- B. Convert the Pandas UDF to a PySpark UDF
- C. Run the in\_spanish\_inner() function in a mapInPandas() function call
- D. Convert the Pandas UDF from a Series → Series UDF to a Series → Scalar UDF

**Answer: A**

Explanation:

The provided code defines a Pandas UDF of type Series-to-Series, where a new instance of the language model is created on each call, which happens per batch. This is inefficient and results in significant overhead due to repeated model initialization.

To reduce the frequency of model loading, the engineer should convert the UDF to an iterator-based Pandas UDF (Iterator[pd.Series] → Iterator[pd.Series]). This allows the model to be loaded once per executor and reused across multiple batches, rather than once per call.

From the official Databricks documentation:

"Iterator of Series to Iterator of Series UDFs are useful when the UDF initialization is expensive... For example, loading a ML model once per executor rather than once per row/batch."

- Databricks Official Docs: Pandas UDFs

Correct implementation looks like:

```
python
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@pandas_udf("string")
def translate_udf(batch_iter: Iterator[pd.Series]) -> Iterator[pd.Series]:
    model = get_translation_model(target_lang='es')
    for batch in batch_iter:
        yield batch.apply(model)
```

This refactor ensures the get\_translation\_model() is invoked once per executor process, not per batch, significantly improving pipeline performance.

## NEW QUESTION # 54

A data engineer is building an Apache Spark™ Structured Streaming application to process a stream of JSON events in real time.

The engineer wants the application to be fault-tolerant and resume processing from the last successfully processed record in case of a failure. To achieve this, the data engineer decides to implement checkpoints.

Which code snippet should the data engineer use?

- A. query = streaming\_df.writeStream \
 .format("console") \
 .outputMode("append") \
 .option("checkpointLocation", "/path/to/checkpoint") \
 .start()
- B. query = streaming\_df.writeStream \
 .format("console") \
 .outputMode("complete") \
 .start()
- C. query = streaming\_df.writeStream \
 .format("console") \

- ```
.option("checkpoint", "/path/to/checkpoint") \
.outputMode("append") \
.start()
• D. query = streaming_df.writeStream \
.format("console") \
.outputMode("append") \
.start()
```

**Answer: A**

Explanation:

To enable fault tolerance and ensure that Spark can resume from the last committed offset after failure, you must configure a checkpoint location using the correct option key: "checkpointLocation".

From the official Spark Structured Streaming guide:

"To make a streaming query fault-tolerant and recoverable, a checkpoint directory must be specified using

.option("checkpointLocation", "/path/to/dir")." Explanation of options:

Option A uses an invalid option name: "checkpoint" (should be "checkpointLocation") Option B is correct: it sets checkpointLocation properly Option C lacks checkpointing and won't resume after failure Option D also lacks checkpointing configuration

## NEW QUESTION # 55

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