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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q55-Q60):

NEW QUESTION # 55

A developer notices that all the post-shuffle partitions in a dataset are smaller than the value set for `spark.sql.adaptive.maxShuffledHashJoinLocalMapThreshold`.

Which type of join will Adaptive Query Execution (AQE) choose in this case?

- A. A broadcast nested loop join
- B. A Cartesian join
- C. A sort-merge join
- **D. A shuffled hash join**

Answer: D

Explanation:

Adaptive Query Execution (AQE) dynamically selects join strategies based on actual data sizes at runtime. If the size of post-shuffle partitions is below the threshold set by:

`spark.sql.adaptive.maxShuffledHashJoinLocalMapThreshold`

then Spark prefers to use a shuffled hash join.

From the Spark documentation:

"AQE selects a shuffled hash join when the size of post-shuffle data is small enough to fit within the configured threshold, avoiding more expensive sort-merge joins." Therefore:

A is wrong - Cartesian joins are only used with no join condition.

B is correct - this is the optimized join for small partitioned shuffle data under AQE.

C and D are used under other scenarios but not for this case.

Final answer: B

NEW QUESTION # 56

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

Answer: A

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 # 57

What is the risk associated with this operation when converting a large Pandas API on Spark DataFrame back to a Pandas DataFrame?

- A. The conversion will automatically distribute the data across worker nodes
- B. Data will be lost during conversion
- C. The operation will fail if the Pandas DataFrame exceeds 1000 rows
- **D. The operation will load all data into the driver's memory, potentially causing memory overflow**

Answer: D

Explanation:

When you convert a large `pyspark.pandas` (aka Pandas API on Spark) DataFrame to a local Pandas DataFrame using `.toPandas()`, Spark collects all partitions to the driver.

From the Spark documentation:

"Be careful when converting large datasets to Pandas. The entire dataset will be pulled into the driver's memory." Thus, for large datasets, this can cause memory overflow or out-of-memory errors on the driver.

Final answer: D

NEW QUESTION # 58

45 of 55.

Which feature of Spark Connect should be considered when designing an application that plans to enable remote interaction with a Spark cluster?

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

Answer: D

Explanation:

Spark Connect enables remote execution of Spark jobs by decoupling the client from the driver using the Spark Connect protocol (gRPC).

It allows users to run Spark code from different environments (like notebooks, IDEs, or remote clients) while executing jobs on the cluster.

Key Features:

Enables remote interaction between client and Spark driver.

Supports interactive development and lightweight client sessions.

Improves developer productivity without needing driver resources locally.

Why the other options are incorrect:

A: Spark Connect is not limited to ingestion tasks.

B: It allows multi-language clients (Python, Scala, etc.) but runs via Spark Connect API, not arbitrary remote code.

C: Uses gRPC protocol, not REST.

Reference:

Databricks Exam Guide (June 2025): Section "Using Spark Connect to Deploy Applications" - describes Spark Connect architecture and remote execution model.

Spark 3.5 Documentation - Spark Connect overview and client-server protocol.

NEW QUESTION # 59

Which command overwrites an existing JSON file when writing a DataFrame?

- A. `df.write.mode("overwrite").json("path/to/file")`
- B. `df.write.json("path/to/file", overwrite=True)`
- C. `df.write.overwrite.json("path/to/file")`
- D. `df.write.format("json").save("path/to/file", mode="overwrite")`

Answer: A

Explanation:

The correct way to overwrite an existing file using the `DataFrameWriter` is:

`df.write.mode("overwrite").json("path/to/file")`

Option D is also technically valid, but Option A is the most concise and idiomatic PySpark syntax.

Reference:PySpark `DataFrameWriter` API

NEW QUESTION # 60

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