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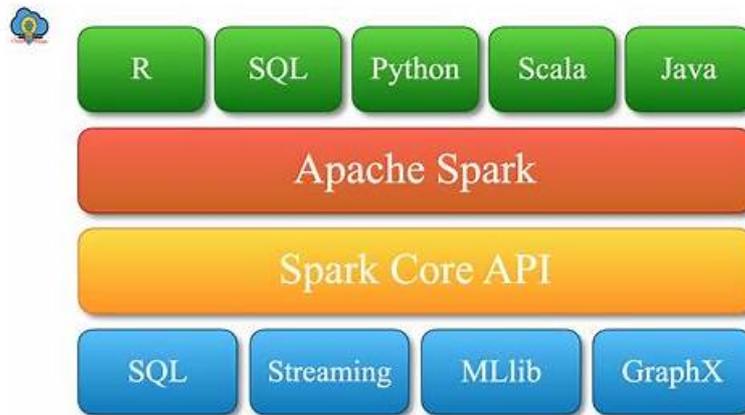
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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q117-Q122):

NEW QUESTION # 117
A data engineer writes the following code to join two DataFrames df1 and df2:

```
df1 = spark.read.csv("sales_data.csv") # ~10 GB
df2 = spark.read.csv("product_data.csv") # ~8 MB
result = df1.join(df2, df1.product_id == df2.product_id)
```

```
df1 = spark.read.csv("sales_data.csv")
df2 = spark.read.csv("product_data.csv")
result = df1.join(df1.product_id == df2.product_id)
```

Which join strategy will Spark use?

- A. Broadcast join, as df2 is smaller than the default broadcast threshold
- B. Shuffle join, because AQE is not enabled, and Spark uses a static query plan
- C. Shuffle join, as the size difference between df1 and df2 is too large for a broadcast join to work efficiently
- D. Shuffle join because no broadcast hints were provided

Answer: A

Explanation:
The default broadcast join threshold in Spark is:
spark.sql.autoBroadcastJoinThreshold = 10MB
Since df2 is only 8 MB (less than 10 MB), Spark will automatically apply a broadcast join without requiring explicit hints.
From the Spark documentation:
"If one side of the join is smaller than the broadcast threshold, Spark will automatically broadcast it to all executors." A is incorrect because Spark does support auto broadcast even with static plans.
B is correct: Spark will automatically broadcast df2.
C and D are incorrect because Spark's default logic handles this optimization.
Final answer: B

NEW QUESTION # 118
A data engineer needs to add all the rows from one table to all the rows from another, but not all the columns in the first table exist in the second table.
The error message is:
AnalysisException: UNION can only be performed on tables with the same number of columns.
The existing code is:
au_df.union(nz_df)
The DataFrame au_df has one extra column that does not exist in the DataFrame nz_df, but otherwise both DataFrames have the same column names and data types.
What should the data engineer fix in the code to ensure the combined DataFrame can be produced as expected?

- A. df = au_df.unionByName(nz_df, allowMissingColumns=False)
- B. df = au_df.unionByName(nz_df, allowMissingColumns=True)
- C. df = au_df.unionAll(nz_df)
- D. df = au_df.union(nz_df, allowMissingColumns=True)

Answer: B

Explanation:
When two DataFrames have different column sets, the normal union() or unionAll() functions fail unless both have exactly the same columns in the same order.
Solution: Use unionByName() with allowMissingColumns=True.
This aligns columns by name and automatically adds missing columns with null values.
Correct syntax:
combined_df = au_df.unionByName(nz_df, allowMissingColumns=True)
This ensures the union works even if one DataFrame has extra or missing columns.
Why the other options are incorrect:
B: unionAll() is deprecated; also requires identical schemas.
C: With allowMissingColumns=False, Spark still throws a mismatch error.
D: union() doesn't accept the allowMissingColumns argument.
Reference:
PySpark API - DataFrame.unionByName() with allowMissingColumns option.
Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - combining DataFrames and schema alignment.

NEW QUESTION # 119

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

Answer: A

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 # 120

A developer is running Spark SQL queries and notices underutilization of resources. Executors are idle, and the number of tasks per stage is low.
What should the developer do to improve cluster utilization?

- A. Reduce the value of spark.sql.shuffle.partitions
- B. Enable dynamic resource allocation to scale resources as needed
- C. Increase the value of spark.sql.shuffle.partitions
- D. Increase the size of the dataset to create more partitions

Answer: C

Explanation:
The number of tasks is controlled by the number of partitions. By default, spark.sql.shuffle.partitions is 200. If stages are showing very few tasks (less than total cores), you may not be leveraging full parallelism.
From the Spark tuning guide:
"To improve performance, especially for large clusters, increase spark.sql.shuffle.partitions to create more tasks and parallelism."

Thus:
A is correct: increasing shuffle partitions increases parallelism
B is wrong: it further reduces parallelism
C is invalid: increasing dataset size doesn't guarantee more partitions D is irrelevant to task count per stage Final answer: A

NEW QUESTION # 121

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

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

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When you convert a largepyspark.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 # 122

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