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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q107-Q112):

NEW QUESTION # 107
A developer wants to refactor some older Spark code to leverage built-in functions introduced in Spark 3.5.0. The existing code performs array manipulations manually. Which of the following code snippets utilizes new built-in functions in Spark 3.5.0 for array operations?

```
import pyspark.sql.functions as F

min_price = 110.50

result_df = prices_df \
  .filter(F.col("spot_price") >= F.lit(min_price)) \
  .agg(F.count("*"))
```

- A.
```
result_df = prices_df \
  .withColumn("valid_price", F.when(F.col("spot_price") > F.lit(min_price), 1).otherwise(0))
```
result_df = prices_df \
.withColumn("valid_price", F.when(F.col("spot_price") > F.lit(min_price), 1).otherwise(0))
- B.
```
result_df = prices_df \
  .agg(F.count("spot_price").alias("spot_price")) \
  .filter(F.col("spot_price") > F.lit("min_price"))
```
result_df = prices_df \
.agg(F.count("spot_price").alias("spot_price")) \
.filter(F.col("spot_price") > F.lit("min_price"))
- C.
```
result_df = prices_df \
  .agg(F.min("spot_price"), F.max("spot_price"))
```
result_df = prices_df \
.agg(F.min("spot_price"), F.max("spot_price"))
- D.
```
result_df = prices_df \
  .agg(F.count_if(F.col("spot_price") >= F.lit(min_price)))
```
result_df = prices_df \
.agg(F.count_if(F.col("spot_price") >= F.lit(min_price)))

Answer: D

Explanation:
count_if(condition) counts the number of rows that meet the specified boolean condition.
In this example, it directly counts how many times spot_price >= min_price evaluates to true, replacing the older verbose combination of when/otherwise and filtering or summing.
Official Spark 3.5.0 documentation notes the addition of count_if to simplify this kind of logic:
"Added count_if aggregate function to count only the rows where a boolean condition holds (SPARK-43773)." Why other options are incorrect or outdated:
A uses a legacy-style method of adding a flag column (when().otherwise()), which is verbose compared to count_if.
C performs a simple min/max aggregation-useful but unrelated to conditional array operations or the updated functionality.
D incorrectly applies .filter() after .agg() which will cause an error, and misuses string "min_price" rather than the variable.
Therefore, B is the only option leveraging new functionality from Spark 3.5.0 correctly and efficiently.
Explanation:
The correct answer is B because it uses the new function count_if, introduced in Spark 3.5.0, which simplifies conditional counting within aggregations.

NEW QUESTION # 108
A Spark engineer must select an appropriate deployment mode for the Spark jobs.
What is the benefit of using cluster mode in Apache Spark™?

- A. In cluster mode, the driver runs on the client machine, which can limit the application's ability to handle large datasets efficiently.
- B. In cluster mode, resources are allocated from a resource manager on the cluster, enabling better performance and scalability for large jobs
- C. In cluster mode, the driver is responsible for executing all tasks locally without distributing them across the worker nodes.
- D. In cluster mode, the driver program runs on one of the worker nodes, allowing the application to fully utilize the distributed resources of the cluster.

Answer: D

Explanation:
In Apache Spark's cluster mode:
"The driver program runs on the cluster's worker node instead of the client's local machine. This allows the driver to be close to the data and other executors, reducing network overhead and improving fault tolerance for production jobs." (Source: Apache Spark documentation - Cluster Mode Overview)
"The driver program runs on the cluster's worker node instead of the client's local machine. This allows the driver to be close to the data and other executors, reducing network overhead and improving fault tolerance for production jobs." (Source: Apache Spark documentation - Cluster Mode Overview) This deployment is ideal for production environments where the job is submitted from a gateway node, and Spark manages the driver lifecycle on the cluster itself.
Option A is partially true but less specific than D.
Option B is incorrect: the driver never executes all tasks; executors handle distributed tasks.
Option C describes client mode, not cluster mode.

NEW QUESTION # 109
A data engineer is working on a Streaming DataFrame streaming_df with the given streaming data:

Id	Name	count	timestamp
1	Delhi	20	2024-09-19T10:10:10.000+00:00
1	Delhi	50	2024-09-19T10:10:50.000+00:00
1	Delhi	10	2024-09-19T10:11:10.000+00:00
2	London	50	2024-09-19T10:10:20.000+00:00
3	Paris	30	2024-09-19T10:10:30.000+00:00
3	Paris	20	2024-09-19T10:11:20.000+00:00
4	Washington	10	2024-09-19T10:10:40.000+00:00
4	Washington	40	2024-09-19T10:11:00.000+00:00

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Which operation is supported with streamingdf ?

- A. streaming_df. select (countDistinct ("Name"))
- B. streaming_df.filter (col("count") < 30).show()
- C. streaming_df.orderBy("timestamp").limit(4)
- D. streaming_df.groupby("Id") .count ()

Answer: D

Explanation:
In Structured Streaming, only a limited subset of operations is supported due to the nature of unbounded data. Operations like sorting (orderBy) and global aggregation (countDistinct) require a full view of the dataset, which is not possible with streaming data unless specific watermarks or windows are defined.
Review of Each Option:
A: select(countDistinct("Name"))
Not allowed - Global aggregation like countDistinct() requires the full dataset and is not supported directly in streaming without watermark and windowing logic.
Reference: Databricks Structured Streaming Guide - Unsupported Operations.
B: groupby("Id").count()
Supported - Streaming aggregations over a key (like groupBy("Id")) are supported. Spark maintains intermediate state for each key.
Reference: Databricks Docs → Aggregations in Structured Streaming (https://docs.databricks.com/structured-streaming/aggregation.html) C . orderBy("timestamp").limit(4)
Not allowed - Sorting and limiting require a full view of the stream (which is infinite), so this is unsupported in streaming DataFrames.

Reference: Spark Structured Streaming - Unsupported Operations (ordering without watermark/window not allowed).
D: filter(col("count") < 30).show()
Not allowed - show() is a blocking operation used for debugging batch DataFrames; it's not allowed on streaming DataFrames.
Reference: Structured Streaming Programming Guide - Output operations like show() are not supported.
Reference Extract from Official Guide:
"Operations like orderBy, limit, show, and countDistinct are not supported in Structured Streaming because they require the full dataset to compute a result. Use groupBy(...).agg(...) instead for incremental aggregations."
- Databricks Structured Streaming Programming Guide

NEW QUESTION # 110
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: int) -> int:
  return t * 3.14159
- D. @F.udf(T.DoubleType())
  def simple_udf(t: float) -> float:
  return t * 3.14159

Answer: D

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 # 111
What is the benefit of using Pandas on Spark for data transformations?
Options:

- A. It executes queries faster using all the available cores in the cluster as well as provides Pandas's rich set of features.
- B. It computes results immediately using eager execution, making it simple to use.
- C. It runs on a single node only, utilizing the memory with memory-bound DataFrames and hence cost-efficient.
- D. It is available only with Python, thereby reducing the learning curve.

Answer: A

Explanation:
Pandas API on Spark (formerly Koalas) offers:
Familiar Pandas-like syntax
Distributed execution using Spark under the hood
Scalability for large datasets across the cluster
It provides the power of Spark while retaining the productivity of Pandas.

NEW QUESTION # 112
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