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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q53-Q58):

NEW QUESTION # 53

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

Which operation is supported with streaming_df?

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

Answer: B

Explanation:

Comprehensive and Detailed

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 # 54

13 of 55.

A developer needs to produce a Python dictionary using data stored in a small Parquet table, which looks like this:

```
region_id
region_name
10
North
12
East
14
West
```

The resulting Python dictionary must contain a mapping of region_id to region_name, containing the smallest 3 region_id values.

Which code fragment meets the requirements?

- A. `regions_dict = regions.select("region_id", "region_name").take(3)`
- B. `regions_dict = dict(regions.select("region_id", "region_name").rdd.collect())`
- C. `regions_dict = dict(regions.orderBy("region_id").limit(3).rdd.map(lambda x: (x.region_id, x.region_name)).collect())`
- D. `regions_dict = dict(regions.take(3))`

Answer: C

Explanation:

To create a Python dictionary from a Spark DataFrame, you can first collect the data to the driver node and then convert it into a Python dictionary using `dict()`.

Steps:

Select only relevant columns.

Order by `region_id` to get the smallest ones.

Limit to 3 rows.

Map each row into key-value pairs.

Collect results to the driver and convert to a dictionary.

Correct code:

```
regions_dict = dict(
regions.orderBy("region_id")
.limit(3)
.rdd.map(lambda x: (x.region_id, x.region_name))
.collect()
)
```

This produces a dictionary like:

`{10: 'North', 12: 'East', 14: 'West'}`

Why the other options are incorrect:

A/B: `take(3)` returns a list of Row objects, not key-value pairs.

C: Doesn't order or limit by smallest IDs, so the result may not be correct.

Reference:

PySpark RDD API - `map()` and `collect()`.

Databricks Exam Guide (June 2025): Section "Using Spark DataFrame APIs" - covers DataFrame-to-local data conversions and collect operations.

NEW QUESTION # 55

Given a CSV file with the content:

```
bambi,he
alladin,20
```

databricks

Given the code fragment:

```
from pyspark.sql.types import *
schema = StructType([StructField("name", StringType()), StructField("age", IntegerType())])
spark.read.schema(schema).csv(path).collect()
```

And the following code:

```
from pyspark.sql.types import *
schema = StructType([
StructField("name", StringType()),
StructField("age", IntegerType())
])
spark.read.schema(schema).csv(path).collect()
```

What is the resulting output?

- A. `[Row(name='bambi'), Row(name='alladin', age=20)]`
- B. `[Row(name='alladin', age=20)]`
- C. The code throws an error due to a schema mismatch.
- D. `[Row(name='bambi', age=None), Row(name='alladin', age=20)]`

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Spark, when a CSV row does not match the provided schema, Spark does not raise an error by default.

Instead, it returns null for fields that cannot be parsed correctly.

In the first row, "hello" cannot be cast to Integer for the age field # Spark sets age=None In the second row, "20" is a valid integer # age=20 So the output will be:

```
[Row(name='bambi', age=None), Row(name='alladin', age=20)]
```

Final Answer: C

NEW QUESTION # 56

What is the relationship between jobs, stages, and tasks during execution in Apache Spark?

Options:

- A. A stage contains multiple jobs, and each job contains multiple tasks.
- B. A stage contains multiple tasks, and each task contains multiple jobs.
- **C. A job contains multiple stages, and each stage contains multiple tasks.**
- D. A job contains multiple tasks, and each task contains multiple stages.

Answer: C

Explanation:

A Spark job is triggered by an action (e.g., count, show).

The job is broken into stages, typically one per shuffle boundary.

Each stage is divided into multiple tasks, which are distributed across worker nodes.

Reference: Spark Execution Model

NEW QUESTION # 57

A Data Analyst needs to retrieve employees with 5 or more years of tenure.

Which code snippet filters and shows the list?

- A. `employees_df.where(employees_df.tenure >= 5)`
- B. `filter(employees_df.tenure >= 5)`
- **C. `employees_df.filter(employees_df.tenure >= 5).show()`**
- D. `employees_df.filter(employees_df.tenure >= 5).collect()`

Answer: C

Explanation:

To filter rows based on a condition and display them in Spark, use `filter(...).show()`:

```
employees_df.filter(employees_df.tenure >= 5).show()
```

Option A is correct and shows the results.

Option B filters but doesn't display them.

Option C uses Python's built-in filter, not Spark.

Option D collects the results to the driver, which is unnecessary if `.show()` is sufficient.

Final answer: A

NEW QUESTION # 58

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