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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q121-Q126):

NEW QUESTION # 121

An engineer has a large ORC file located at `/file/test_data.orc` and wants to read only specific columns to reduce memory usage. Which code fragment will select the columns, i.e., `col1`, `col2`, during the reading process?

- A. `spark.read.format("orc").select("col1", "col2").load("/file/test_data.orc")`
- B. `spark.read.format("orc").load("/file/test_data.orc").select("col1", "col2")`
- C. `spark.read.orc("/file/test_data.orc").selected("col1", "col2")`
- D. `spark.read.orc("/file/test_data.orc").filter("col1 = 'value' ").select("col2")`

Answer: B

Explanation:

The correct way to load specific columns from an ORC file is to first load the file using `.load()` and then apply `.select()` on the resulting DataFrame. This is valid with `.read.format("orc")` or the shortcut `.read.orc()`.

`df = spark.read.format("orc").load("/file/test_data.orc").select("col1", "col2")` Why others are incorrect:

A performs selection after filtering, but doesn't match the intention to minimize memory at load.

B incorrectly tries to use `.select()` before `.load()`, which is invalid.

C uses a non-existent `.selected()` method.

D correctly loads and then selects.

NEW QUESTION # 122

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A data scientist has been investigating user profile data to build features for their model. After some exploratory data analysis, the data scientist identified that some records in the user profiles contain NULL values in too many fields to be useful.

The schema of the user profile table looks like this:

`user_id` STRING,
`username` STRING,
`date_of_birth` DATE,
`country` STRING,
`created_at` TIMESTAMP

The data scientist decided that if any record contains a NULL value in any field, they want to remove that record from the output before further processing.

Which block of Spark code can be used to achieve these requirements?

- A. `filtered_users = raw_users.na.drop("all")`
- B. `filtered_users = raw_users.dropna(how="all")`
- C. `filtered_users = raw_users.dropna(how="any")`
- D. `filtered_users = raw_users.na.drop("any")`

Answer: C

Explanation:

In Spark's DataFrame API, the `dropna()` (or equivalently, `DataFrameNaFunctions.drop()`) method removes rows containing null values.

Behavior:

how="any" → drops rows where any column has a null value.

how="all" → drops rows where all columns are null.

Since the data scientist wants to drop records with any null field, the correct parameter is how="any".

Correct syntax:

```
filtered_users = raw_users.dropna(how="any")
```

This will remove all records that have at least one null value in any column.

Why the other options are incorrect:

A: Uses na.drop("any") but missing parentheses context (works only as raw_users.na.drop("any"), which is equivalent to option C).

B/D: how="all" only removes rows where all values are null - too strict for this use case.

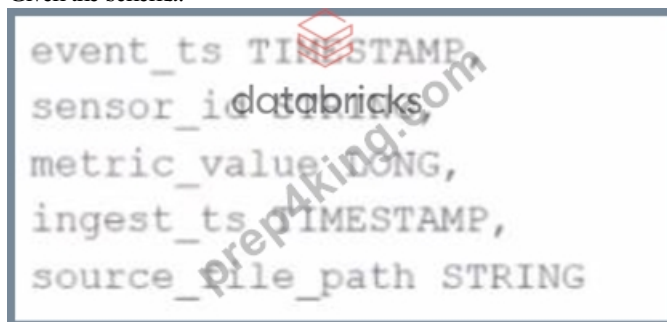
Reference:

PySpark DataFrame API - DataFrameNaFunctions.drop() and DataFrame.dropna().

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - covers handling missing data and DataFrame cleaning operations.

NEW QUESTION # 123

Given the schema:



```
event_ts TIMESTAMP,  
sensor_id STRING,  
metric_value LONG,  
ingest_ts TIMESTAMP,  
source_file_path STRING
```

The goal is to deduplicate based on: event_ts, sensor_id, and metric_value.

Options:

- A. dropDuplicates on the exact matching fields
- B. groupBy without aggregation (invalid use)
- C. dropDuplicates with no arguments (removes based on all columns)
- D. dropDuplicates on all columns (wrong criteria)

Answer: A

Explanation:

dedup_df = iot_bronze_df.dropDuplicates(["event_ts", "sensor_id", "metric_value"]) dropDuplicates accepts a list of columns to use for deduplication.

This ensures only unique records based on the specified keys are retained.

NEW QUESTION # 124

A Spark developer is building an app to monitor task performance. They need to track the maximum task processing time per worker node and consolidate it on the driver for analysis.

Which technique should be used?

- A. Broadcast a variable to share the maximum time among workers
- B. Use an accumulator to record the maximum time on the driver
- C. Use an RDD action like reduce() to compute the maximum time
- D. Configure the Spark UI to automatically collect maximum times

Answer: C

Explanation:

The correct way to aggregate information (e.g., max value) from distributed workers back to the driver is using RDD actions such as `reduce()` or `aggregate()`.

From the documentation:

"To perform global aggregations on distributed data, actions like `reduce()` are commonly used to collect summaries such as min/max/avg." Accumulators (Option B) do not support max operations directly and are not intended for such analytics.

Broadcast (Option C) is used to send data to workers, not collect from them.

Spark UI (Option D) is a monitoring tool - not an analytics collection interface.

Final answer: A

NEW QUESTION # 125

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A data analyst builds a Spark application to analyze finance data and performs the following operations:

`filter`, `select`, `groupBy`, and `coalesce`.

Which operation results in a shuffle?

- A. `filter`
- B. `select`
- C. `groupBy`
- D. `coalesce`

Answer: C

Explanation:

In Spark, a shuffle occurs when data needs to be redistributed across partitions or nodes, typically due to operations that require grouping, joining, or sorting.

`groupBy` triggers a shuffle because it aggregates data based on key values, requiring data from multiple partitions to be moved across the cluster.

Operations like `filter` and `select` are narrow transformations (no shuffle).

`coalesce` can reduce the number of partitions without a full shuffle (unlike repartition).

Why the other options are incorrect:

A (`filter`) - Narrow transformation, no shuffle.

B (`select`) - Simple projection, no data movement.

D (`coalesce`) - Reduces partitions locally without shuffle.

Reference:

Spark Architecture - Transformations and Actions; narrow vs. wide transformations.

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - explains shuffle operations and execution hierarchy.

NEW QUESTION # 126

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