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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q58-Q63):

NEW QUESTION # 58

Given the code:

```
df = spark.read.csv("large_dataset.csv")
filtered_df = df.filter(col("error_column")
                        .contains("error"))
mapped_df = filtered_df.select(split(col("timestamp"), " ").getItem(0).alias("date"),
                               lit(1).alias("count"))
reduced_df = mapped_df.groupBy("date").sum("count")
reduced_df.count()
reduced_df.show()
```

df= spark.read.csv("large_dataset.csv")
filtered_df= df.filter(col("error_column").contains("error"))
mapped_df= filtered_df.select(split(col("timestamp"), " ").getItem(0).alias("date"), lit(1).alias("count"))
reduced_df= mapped_df.groupBy("date").sum("count")
reduced_df.count()
reduced_df.show()
At which point will Spark actually begin processing the data?

- A. When the groupBy transformation is applied
- **B. When the count action is applied**
- C. When the show action is applied
- D. When the filter transformation is applied

Answer: B

Explanation:

Spark uses lazy evaluation. Transformations like filter, select, and groupBy only define the DAG (Directed Acyclic Graph). No execution occurs until an action is triggered.

The first action in the code is: reduced_df.count()

So Spark starts processing data at this line.

NEW QUESTION # 59

An engineer wants to join two DataFrames df1 and df2 on the respective employee_id and emp_id columns:

df1: employee_id INT, name STRING

df2: emp_id INT, department STRING

The engineer uses:

```
result = df1.join(df2, df1.employee_id == df2.emp_id, how='inner')
```

What is the behaviour of the code snippet?

- **A. The code works as expected because the join condition explicitly matches employee_id from df1 with emp_id from df2**
- B. The code fails to execute because PySpark does not support joining DataFrames with a different structure
- C. The code fails to execute because it must use on='employee_id' to specify the join column explicitly
- D. The code fails to execute because the column names employee_id and emp_id do not match automatically

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In PySpark, when performing a join between two DataFrames, the columns do not have to share the same name. You can explicitly provide a join condition by comparing specific columns from each DataFrame.

This syntax is correct and fully supported:

```
df1.join(df2, df1.employee_id == df2.emp_id, how='inner')
```

This will perform an inner join between df1 and df2 using the employee_id from df1 and emp_id from df2.

NEW QUESTION # 60

8 of 55.

A data scientist at a large e-commerce company needs to process and analyze 2 TB of daily customer transaction data. The company wants to implement real-time fraud detection and personalized product recommendations. Currently, the company uses a traditional relational database system, which struggles with the increasing data volume and velocity. Which feature of Apache Spark effectively addresses this challenge?

- A. Built-in machine learning libraries
- **B. In-memory computation and parallel processing capabilities**
- C. Ability to process small datasets efficiently
- D. Support for SQL queries on structured data

Answer: B

Explanation:

Apache Spark was designed for big data and high-velocity workloads. Its core strength lies in its in-memory computation and parallel distributed processing model.

These features allow Spark to:

Process large-scale datasets quickly across many nodes.

Support real-time and near-real-time analytics for tasks like fraud detection and recommendations.

Minimize disk I/O through caching and memory persistence.

Thus, the key advantage in this use case is Spark's ability to handle large data volumes efficiently using distributed, in-memory computation.

Why the other options are incorrect:

A: Spark is optimized for large, not small, datasets.

C: SQL support is useful but doesn't solve the scalability issue.

D: MLlib supports machine learning but relies on Spark's parallel computation for speed.

Reference:

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - identifies Spark's advantages: in-memory processing, distributed computation, and scalability.

Apache Spark 3.5 Overview - Key design goals and cluster computation model.

NEW QUESTION # 61

22 of 55.

A Spark application needs to read multiple Parquet files from a directory where the files have differing but compatible schemas. The data engineer wants to create a DataFrame that includes all columns from all files.

Which code should the data engineer use to read the Parquet files and include all columns using Apache Spark?

- A. `spark.read.parquet("/data/parquet/")`
- B. `spark.read.format("parquet").option("inferSchema", "true").load("/data/parquet/")`
- C. `spark.read.parquet("/data/parquet/").option("mergeAllCols", True)`
- **D. `spark.read.option("mergeSchema", True).parquet("/data/parquet/")`**

Answer: D

Explanation:

When reading Parquet files, Spark infers a unified schema automatically only if all files share identical structures.

If files have different but compatible schemas, you must enable schema merging by setting the option `mergeSchema=True`.

Correct syntax:

```
df = spark.read.option("mergeSchema", True).parquet("/data/parquet/")
```

This option ensures Spark merges all discovered fields across Parquet files into one unified DataFrame schema.

Why the other options are incorrect:

A: Loads files but ignores extra columns - uses only the first file's schema.

C: `inferSchema` applies to CSV/JSON, not Parquet.

D: `mergeAllCols` is not a valid Spark option.

Reference:

Spark SQL Data Sources - Parquet options (`mergeSchema`, `path`).

NEW QUESTION # 62

What is the behavior for function `date_sub(start, days)` if a negative value is passed into the `days` parameter?

- A. The number of days specified will be added to the start date
- B. The same start date will be returned
- C. An error message of an invalid parameter will be returned
- D. The number of days specified will be removed from the start date

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The function `date_sub(start, days)` subtracts the number of days from the start date. If a negative number is passed, the behavior becomes a date addition.

Example:

```
SELECT date_sub('2024-05-01', -5)
```

```
-- Returns: 2024-05-06
```

So, a negative value effectively adds the absolute number of days to the date.

Reference: Spark SQL Functions # `date_sub()`

NEW QUESTION # 63

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