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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q39-Q44):

NEW QUESTION # 39

A data analyst wants to add a column date derived from a timestamp column.

Options:

- A. `dates_df.withColumn("date", f.to_date("timestamp")).show()`
- B. `dates_df.withColumn("date", f.from_unixtime("timestamp")).show()`
- C. `dates_df.withColumn("date", f.date_format("timestamp", "yyyy-MM-dd")).show()`
- D. `dates_df.withColumn("date", f.unix_timestamp("timestamp")).show()`

Answer: A

Explanation:

`f.to_date()` converts a timestamp or string to a `DateType`.

Ideal for extracting the date component (year-month-day) from a full timestamp.

Example:

```
from pyspark.sql.functions import to_date
dates_df.withColumn("date", to_date("timestamp"))
```

NEW QUESTION # 40

A data engineer needs to write a `DataFrame` to a Parquet file, partitioned by the column `country`, and overwrite any existing data at the destination path.

Which code should the data engineer use to accomplish this task in Apache Spark?

- A. `df.write.mode("overwrite").partitionBy("country").parquet("/data/output")`
- B. `df.write.mode("append").partitionBy("country").parquet("/data/output")`
- C. `df.write.mode("overwrite").parquet("/data/output")`
- D. `df.write.partitionBy("country").parquet("/data/output")`

Answer: A

Explanation:

The `mode("overwrite")` ensures that existing files at the path will be replaced.

`partitionBy("country")` optimizes queries by writing data into partitioned folders.

Correct syntax:

```
df.write.mode("overwrite").partitionBy("country").parquet("/data/output")
```

- Source: Spark SQL, DataFrames and Datasets Guide

NEW QUESTION # 41

A Spark `DataFrame` `df` is cached using the `MEMORY_AND_DISK` storage level, but the `DataFrame` is too large to fit entirely in memory.

What is the likely behavior when Spark runs out of memory to store the `DataFrame`?

- A. Spark duplicates the `DataFrame` in both memory and disk. If it doesn't fit in memory, the `DataFrame` is stored and retrieved from the disk entirely.
- B. Spark stores the frequently accessed rows in memory and less frequently accessed rows on disk, utilizing both resources to offer balanced performance.
- C. Spark splits the `DataFrame` evenly between memory and disk, ensuring balanced storage utilization.
- D. Spark will store as much data as possible in memory and spill the rest to disk when memory is full, continuing processing

with performance overhead.

Answer: D

Explanation:

When using the MEMORY_AND_DISK storage level, Spark attempts to cache as much of the DataFrame in memory as possible. If the DataFrame does not fit entirely in memory, Spark will store the remaining partitions on disk. This allows processing to continue, albeit with a performance overhead due to disk I/O.

As per the Spark documentation:

"MEMORY_AND_DISK: It stores partitions that do not fit in memory on disk and keeps the rest in memory. This can be useful when working with datasets that are larger than the available memory."

- Perficent Blogs: Spark - StorageLevel

This behavior ensures that Spark can handle datasets larger than the available memory by spilling excess data to disk, thus preventing job failures due to memory constraints.

NEW QUESTION # 42

36 of 55.

What is the main advantage of partitioning the data when persisting tables?

- A. It compresses the data to save disk space.
- **B. It optimizes by reading only the relevant subset of data from fewer partitions.**
- C. It ensures that data is loaded into memory all at once for faster query execution.
- D. It automatically cleans up unused partitions to optimize storage.

Answer: B

Explanation:

Partitioning a dataset divides data into separate directories based on partition column values. When queries filter on partitioned columns, Spark can prune irrelevant partitions - meaning it only reads files that match the filter criteria.

Advantage:

Reduces I/O and improves performance by scanning only relevant subsets of data.

Example:

/data/sales/year=2023/month=10/...

/data/sales/year=2024/month=01/...

A query filtering WHERE year = 2024 reads only the relevant partition.

Why the other options are incorrect:

A: Compression is independent of partitioning.

B: Spark does not automatically clean partitions unless managed manually.

C: Partitioning does not cause Spark to load entire data into memory.

Reference:

Databricks Exam Guide (June 2025): Section "Using Spark SQL" - partitioning and pruning for optimized data retrieval.

Spark SQL Documentation - DataFrameWriter partitionBy() and query optimization.

NEW QUESTION # 43

Given:

python

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```
spark.sparkContext.setLogLevel("<LOG_LEVEL>")
```

Which set contains the suitable configuration settings for Spark driver LOG_LEVELS?

- A. ALL, DEBUG, FAIL, INFO
- **B. ERROR, WARN, TRACE, OFF**
- C. FATAL, NONE, INFO, DEBUG
- D. WARN, NONE, ERROR, FATAL

Answer: B

Explanation:

The setLogLevel() method of SparkContext sets the logging level on the driver, which controls the verbosity of logs emitted during

job execution. Supported levels are inherited from log4j and include the following:

ALL
DEBUG
ERROR
FATAL
INFO
OFF
TRACE
WARN

According to official Spark and Databricks documentation:

"Valid log levels include: ALL, DEBUG, ERROR, FATAL, INFO, OFF, TRACE, and WARN." Among the choices provided, only option B (ERROR, WARN, TRACE, OFF) includes four valid log levels and excludes invalid ones like "FAIL" or "NONE".

NEW QUESTION # 44

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