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Databricks Certified Professional Data Engineer Exam Sample Questions (Q148-Q153):

NEW QUESTION # 148

Which configuration parameter directly affects the size of a spark-partition upon ingestion of data into Spark?

- A. spark.sql.autoBroadcastJoinThreshold
- B. spark.sql.files.maxPartitionBytes
- C. spark.sql.adaptive.advisoryPartitionSizeInBytes
- D. spark.sql.files.openCostInBytes
- E. spark.sql.adaptive.coalescePartitions.minPartitionNum

Answer: B

Explanation:

This is the correct answer because `spark.sql.files.maxPartitionBytes` is a configuration parameter that directly affects the size of a spark-partition upon ingestion of data into Spark. This parameter configures the maximum number of bytes to pack into a single partition when reading files from file-based sources such as Parquet, JSON and ORC. The default value is 128 MB, which means each partition will be roughly 128 MB in size, unless there are too many small files or only one large file. Verified References: [Databricks Certified Data Engineer Professional], under "Spark Configuration" section; Databricks Documentation, under "Available Properties - `spark.sql.files.maxPartitionBytes`" section.

NEW QUESTION # 149

A junior data engineer has been asked to develop a streaming data pipeline with a grouped aggregation using `DataFrameDf`. The pipeline needs to calculate the average humidity and average temperature for each non-overlapping five-minute interval. Events are recorded once per minute per device.

Streaming `DataFrameDf` has the following schema:

```
"device_id INT, event_time TIMESTAMP, temp FLOAT, humidity FLOAT"
```

Code block:

Choose the response that correctly fills in the blank within the code block to complete this task.

- A. `to_interval("event_time", "5 minutes").alias("time")`
- B. `"event_time"`
- C. `window("event_time", "5 minutes").alias("time")`
- D. `window("event_time", "10 minutes").alias("time")`
- E. `lag("event_time", "10 minutes").alias("time")`

Answer: C

Explanation:

Explanation

This is the correct answer because the window function is used to group streaming data by time intervals. The window function takes two arguments: a time column and a window duration. The window duration specifies how long each window is, and must be a multiple of 1 second. In this case, the window duration is "5 minutes", which means each window will cover a non-overlapping five-minute interval. The window function also returns a struct column with two fields: start and end, which represent the start and end time of each window.

The alias function is used to rename the struct column as "time". Verified References: [Databricks Certified Data Engineer Professional], under "Structured Streaming" section; Databricks Documentation, under "WINDOW" section.

NEW QUESTION # 150

Which of the following data workloads will utilize a Bronze table as its source?

- A. A job that ingests raw data from a streaming source into the Lakehouse
- B. A job that enriches data by parsing its timestamps into a human-readable format
- C. A job that queries aggregated data to publish key insights into a dashboard
- D. A job that aggregates cleaned data to create standard summary statistics
- E. A job that develops a feature set for a machine learning application

Answer: B

NEW QUESTION # 151

A data engineer is overwriting data in a table by deleting the table and recreating the table. Another data engineer suggests that this is inefficient and the table should simply be overwritten instead.

Which of the following reasons to overwrite the table instead of deleting and recreating the table is incorrect?

- A. Overwriting a table is an atomic operation and will not leave the table in an unfinished state
- B. Overwriting a table maintains the old version of the table for Time Travel
- C. Overwriting a table allows for concurrent queries to be completed while in progress
- D. Overwriting a table results in a clean table history for logging and audit purposes
- E. Overwriting a table is efficient because no files need to be deleted

Answer: D

NEW QUESTION # 152

A data engineer is using Auto Loader to read incoming JSON data as it arrives. They have configured Auto Loader to quarantine invalid JSON records but notice that over time, some records are being quarantined even though they are well-formed JSON.

The code snippet is:

```
df = (spark.readStream
      .format("cloudFiles")
      .option("cloudFiles.format", "json")
      .option("badRecordsPath", "/tmp/somewhere/badRecordsPath")
      .schema("a int, b int")
      .load("/Volumes/catalog/schema/raw_data/"))
```

What is the cause of the missing data?

- A. At some point, the upstream data provider switched everything to multi-line JSON.
- **B. The source data is valid JSON but does not conform to the defined schema in some way.**
- C. The engineer forgot to set the option "cloudFiles.quarantineMode" = "rescue".
- D. The badRecordsPath location is accumulating many small files.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

Databricks Auto Loader quarantines records that fail schema validation, even if they are syntactically valid JSON. The documentation explains that "records that do not match the defined schema are considered corrupt and written to the bad records path." In this case, the data likely contains valid JSON fields whose structure or data types differ from the declared schema (a int, b int). For example, if a field expected as an integer arrives as a string, Auto Loader will quarantine it. The presence of badRecordsPath confirms this behavior. The cloudFiles.quarantineMode option controls quarantine behavior but is unrelated to valid data that fails schema validation. Thus, the correct cause is C.

NEW QUESTION # 153

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