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Databricks Certified Data Engineer Professional Exam Sample Questions (Q181-Q186):

NEW QUESTION # 181

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

- A. `spark.sql.files.maxPartitionBytes`
- B. `spark.sql.autoBroadcastJoinThreshold`
- C. `spark.sql.files.openCostInBytes`

- D. spark.sql.adaptive.advisoryPartitionSizeInBytes
- E. spark.sql.adaptive.coalescePartitions.minPartitionNum

Answer: A

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.

NEW QUESTION # 182

A data engineer is designing a pipeline in Databricks that processes records from a Kafka stream where late-arriving data is common. Which approach should the data engineer use?

- A. Use an Auto CDC pipeline with batch tables to simplify late data handling.
- B. Implement a custom solution using Databricks Jobs to periodically reprocess all historical data.
- C. Use a watermark to specify the allowed lateness to accommodate records that arrive after their expected window, ensuring correct aggregation and state management.
- D. Use batch processing and overwrite the entire output table each time to ensure late data is incorporated correctly.

Answer: C

Explanation:

In Structured Streaming, event-time watermarks control how long the engine waits for late-arriving data before finalizing aggregations. By setting an appropriate watermark, Databricks can handle late data gracefully -- incorporating records that arrive within the defined window while discarding excessively delayed events.

This approach ensures accurate aggregations, minimizes state size, and prevents memory leaks.

Manual reprocessing (A) or overwriting entire datasets (B) is inefficient and costly, while Auto CDC (C) is used for change tracking in Delta tables, not for streaming event lateness.

Thus, using watermarking is the recommended and official approach for managing late data in streaming pipelines.

NEW QUESTION # 183

A nightly batch job is configured to ingest all data files from a cloud object storage container where records are stored in a nested directory structure YYYY/MM/DD. The data for each date represents all records that were processed by the source system on that date, noting that some records may be delayed as they await moderator approval. Each entry represents a user review of a product and has the following schema:

user_id STRING, review_id BIGINT, product_id BIGINT, review_timestamp TIMESTAMP, review_text STRING The ingestion job is configured to append all data for the previous date to a target table reviews_raw with an identical schema to the source system. The next step in the pipeline is a batch write to propagate all new records inserted into reviews_raw to a table where data is fully deduplicated, validated, and enriched.

Which solution minimizes the compute costs to propagate this batch of data?

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- A. Reprocess all records in reviews_raw and overwrite the next table in the pipeline.
- B. Perform a batch read on the reviews_raw table and perform an insert-only merge using the natural composite key user_id, review_id, product_id, review_timestamp.
- C. Use Delta Lake version history to get the difference between the latest version of reviews_raw and one version prior, then write these records to the next table.
- D. Filter all records in the reviews_raw table based on the review_timestamp; batch append those records produced in the last 48 hours.
- E. Configure a Structured Streaming read against the reviews_raw table using the trigger once execution mode to process new records as a batch job.

Answer: E

Explanation:

<https://www.databricks.com/blog/2017/05/22/running-streaming-jobs-day-10x-cost-savings.html>

NEW QUESTION # 184

The data governance team has instituted a requirement that all tables containing Personal Identifiable Information (PII) must be clearly annotated. This includes adding column comments, table comments, and setting the custom table property "contains_pii" = true.

The following SQL DDL statement is executed to create a new table:

```
CREATE TABLE dev.pii_test
(id INT, name STRING COMMENT 'contains_pii')
COMMENT 'contains_pii'
PARTITIONED BY ('contains_pii' = True)
```

Which command allows manual confirmation that these three requirements have been met?

- A. DESCRIBE HISTORY dev.pii test
- B. SHOW TABLES dev
- C. DESCRIBE DETAIL dev.pii test
- D. SHOW TBLPROPERTIES dev.pii test
- E. DESCRIBE EXTENDED dev.pii test

Answer: E

Explanation:

This is the correct answer because it allows manual confirmation that these three requirements have been met. The requirements are that all tables containing Personal Identifiable Information (PII) must be clearly annotated, which includes adding column comments, table comments, and setting the custom table property "contains_pii" = true. The DESCRIBE EXTENDED command is used to display detailed information about a table, such as its schema, location, properties, and comments. By using this command on the dev.pii_test table, one can verify that the table has been created with the correct column comments, table comment, and custom table property as specified in the SQL DDL statement.

NEW QUESTION # 185

A data engineer is analyzing transactional data in a PySpark DataFrame df containing customer_id, transaction_timestamp (precise to milliseconds), and amount_spent. The objective is to compute a cumulative sum of amount_spent per customer, strictly ordered by transaction_timestamp. The cumulative sum must include all transactions from the earliest timestamp up to and including the current row, respecting temporal ordering within each customer partition. Which PySpark code snippet most accurately constructs the appropriate window specification and applies the aggregation to yield the correct cumulative expenditure per customer?

- A.

```
from pyspark.sql.window import Window
from pyspark.sql.functions import sum, col

window_spec = Window.partitionBy("customer_id")\
    .rowsBetween(Window.unboundedPreceding, Window.currentRow)
df.withColumn("cumulative_spent", sum("amount_spent").over(window_spec))
```

- B.

```
from pyspark.sql.window import Window
from pyspark.sql.functions import sum, col

window_spec = Window.partitionBy("customer_id").orderBy("transaction_timestamp")
df.withColumn("cumulative_spent", sum("amount_spent").over(window_spec))
```

```

from pyspark.sql.window import Window
from pyspark.sql.functions import sum, col

window_spec = Window.orderBy("transaction_timestamp")\
    .rowsBetween(Window.unboundedPreceding, Window.currentRow)
df.withColumn("cumulative_spent", sum("amount_spent").over(window_spec))

```

- C.
- D.

```

from pyspark.sql.window import Window
from pyspark.sql.functions import sum, col

window_spec = Window.partitionBy("customer_id").orderBy("transaction_timestamp")\
    .rowsBetween(Window.unboundedPreceding, Window.currentRow)
df.withColumn("cumulative_spent", sum("amount_spent").over(window_spec))

```

Answer: D

Explanation:

This window specification partitions the data by `customer_id`, orders transactions by `transaction_timestamp`, and defines the frame from the first transaction through the current one.

This guarantees that the cumulative sum is computed independently per customer and strictly follows the temporal order, including all prior transactions up to the current row.

NEW QUESTION # 186

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