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Databricks Certified Professional Data Engineer Exam Sample Questions (Q80-Q85):

NEW QUESTION # 80

An upstream system is emitting change data capture (CDC) logs that are being written to a cloud object storage directory. Each record in the log indicates the change type (insert, update, or delete) and the values for each field after the change. The source table has a primary key identified by the field `pk_id`.

For auditing purposes, the data governance team wishes to maintain a full record of all values that have ever been valid in the source system. For analytical purposes, only the most recent value for each record needs to be recorded. The Databricks job to ingest these records occurs once per hour, but each individual record may have changed multiple times over the course of an hour.

Which solution meets these requirements?

- A. Iterate through an ordered set of changes to the table, applying each in turn; rely on Delta Lake's versioning ability to create an audit log.
- **B. Ingest all log information into a bronze table; use merge into to insert, update, or delete the most recent entry for each `pk_id` into a silver table to recreate the current table state.**
- C. Create a separate history table for each `pk_id` resolve the current state of the table by running a union all filtering the history tables for the most recent state.
- D. Use merge into to insert, update, or delete the most recent entry for each `pk_id` into a bronze table, then propagate all changes throughout the system.
- E. Use Delta Lake's change data feed to automatically process CDC data from an external system, propagating all changes to all dependent tables in the Lakehouse.

Answer: B

Explanation:

This is the correct answer because it meets the requirements of maintaining a full record of all values that have ever been valid in the source system and recreating the current table state with only the most recent value for each record. The code ingests all log information into a bronzetable, which preserves the raw CDC data as it is. Then, it uses merge into to perform an upsert operation on a silver table, which means it will insert new records or update or delete existing records based on the change type and the `pk_id` columns. This way, the silver table will always reflect the current state of the source table, while the bronze table will keep the history of all changes. Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Upsert into a table using merge" section.

NEW QUESTION # 81

A junior data engineer has been asked to develop a streaming data pipeline with a grouped aggregation using DataFrame `df`. The pipeline needs to calculate the average humidity and average temperature for each non-overlapping five-minute interval. Incremental state information should be maintained for 10 minutes for late-arriving data.

Streaming DataFrame `df` 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. `slidingWindow("event_time", "10 minutes")`
- B. `await("event_time + '10 minutes' ")`

- C. `delayWrite("event_time", "10 minutes")`
- **D. `withWatermark("event_time", "10 minutes")`**
- E. `awaitArrival("event_time", "10 minutes")`

Answer: D

Explanation:

The correct answer is A. `withWatermark("event_time", "10 minutes")`. This is because the question asks for incremental state information to be maintained for 10 minutes for late-arriving data. The `withWatermark` method is used to define the watermark for late data. The watermark is a timestamp column and a threshold that tells the system how long to wait for late data. In this case, the watermark is set to 10 minutes. The other options are incorrect because they are not valid methods or syntax for watermarking in Structured Streaming. References:

* Watermarking : <https://docs.databricks.com/spark/latest/structured-streaming/watermarks.html>

* Windowed aggregations : <https://docs.databricks.com/spark/latest/structured-streaming/window-operations.html>

NEW QUESTION # 82

A data engineer has set up two Jobs that each run nightly. The first Job starts at 12:00 AM, and it usually completes in about 20 minutes. The second Job depends on the first Job, and it starts at 12:30 AM. Sometimes, the second Job fails when the first Job does not complete by 12:30 AM.

Which of the following approaches can the data engineer use to avoid this problem?

- A. They can use cluster pools to help the Jobs run more efficiently
- **B. They can utilize multiple tasks in a single job with a linear dependency**
- C. They can limit the size of the output in the second Job so that it will not fail as easily
- D. They can set up the data to stream from the first Job to the second Job
- E. They can set up a retry policy on the first Job to help it run more quickly

Answer: B

NEW QUESTION # 83

The security team is exploring whether or not the Databricks secrets module can be leveraged for connecting to an external database.

After testing the code with all Python variables being defined with strings, they upload the password to the secrets module and configure the correct permissions for the currently active user. They then modify their code to the following (leaving all other variables unchanged).

Which statement describes what will happen when the above code is executed?

- A. The connection to the external table will succeed; the string value of password will be printed in plain text.
- B. The connection to the external table will fail; the string "redacted" will be printed.
- C. An interactive input box will appear in the notebook; if the right password is provided, the connection will succeed and the encoded password will be saved to DBFS.
- D. An interactive input box will appear in the notebook; if the right password is provided, the connection will succeed and the password will be printed in plain text.
- **E. The connection to the external table will succeed; the string "redacted" will be printed.**

Answer: E

Explanation:

This is the correct answer because the code is using the `dbutils.secrets.get` method to retrieve the password from the secrets module and store it in a variable. The secrets module allows users to securely store and access sensitive information such as passwords, tokens, or API keys. The connection to the external table will succeed because the password variable will contain the actual password value. However, when printing the password variable, the string "redacted" will be displayed instead of the plain text password, as a security measure to prevent exposing sensitive information in notebooks. Verified References: [Databricks Certified Data Engineer Professional], under "Security & Governance" section; Databricks Documentation, under "Secrets" section.

NEW QUESTION # 84

A data engineer needs to implement column masking for a sensitive column in a Unity Catalog-managed table. The masking logic must dynamically check if users belong to specific groups defined in a separate table (group_access) that maps groups to allowed departments.

Which approach should the engineer use to efficiently enforce this requirement?

- A. Use a row filter to restrict access based on the user's group.
- B. Create a UDF that hardcodes allowed groups and apply it as a column mask.
- **C. Apply a column mask that references the group_access mapping table in its UDF.**
- D. Create a view without selecting the sensitive column.

Answer: C

Explanation:

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

Databricks Unity Catalog supports dynamic column masking, where masking logic can be implemented using SQL functions or UDFs that reference external mapping tables or metadata for context-aware access control.

By referencing the group_access table inside the masking function, the mask dynamically evaluates whether a requesting user belongs to an authorized group. If permitted, the original column value is returned; otherwise, a masked value (such as NULL or asterisks) is shown.

This method enables fine-grained, data-driven masking policies while maintaining a single authoritative access mapping source. Hardcoding values (A) reduces flexibility, and row filters (D) apply to entire rows rather than specific columns. Therefore, C correctly aligns with Databricks best practices for dynamic masking.

NEW QUESTION # 85

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