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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q233-Q238):

NEW QUESTION # 233
You have a table 'EVENTS' containing application event data with columns 'EVENT ID', 'USER ID', 'EVENT TYPE, and EVENT

DETAILS (VARCHAR). The 'EVENT DETAILS column contains comma-separated key-value pairs (e.g., 'location=USA,device=mobile,os=iOS'). Your objective is to transform this structured data into a VARIANT column named EVENT JSON' in a new table 'EVENTS JSON'. The data in EVENT DETAILS has inconsistent key-value pairs across different rows. Which of the following methods are the most efficient and scalable to parse the key-value pairs in 'EVENT DETAILS' and construct the JSON objects?

- A. Use only REGEXP EXTRACT ALL' with appropriate regular expressions to extract all keys and values into arrays, then use a JavaScript UDF to combine them into a JSON object.
- B. Use a Java UDF that iterates through the string, splitting it based on commas and equals signs, and then constructs a JSON object using a JSON library.
- C. Use 'SPLIT to split the key-value pairs into an array, then use a LATERAL FLATTEN to create rows from array, then use 'SPLIT again to split each row by '='. Finally, construct the JSON using 'OBJECT CONSTRUCT.
- D. Use a combination of 'SPLIT, 'REGEXP_REPLACE and 'OBJECT_CONSTRUCT within a user-defined function (UDF) to parse the string and build the JSON object.
- E. Utilize to split the key-value pairs into rows, then use 'REGEXP_EXTRACT' to extract the key and value. Finally, use 'OBJECT_CONSTRUCT and to construct the JSON object.

Answer: C,E

Explanation:
Options B and E are the most efficient because they use Snowflake's built-in functions for parsing the data before constructing the JSON object. 'SPLIT TO_TABLE' (B) and LATERAL FLATTEN (E) are the more scalable way, if the number of key-value pairs might be high in string. While UDFs (A, C, and D) can achieve the transformation, they can be less performant and harder to maintain compared to SQL-based solutions. 'REGEXP EXTRACT ALL' is less efficient in this case as you would still need to iterate through the arrays it creates. Splitting data with 'SPLIT and utilizing LATERAL FLATTEN provides a good balance between performance and readability for handling semi-structured data within Snowflake's SQL environment.

NEW QUESTION # 234
You are designing a Snowflake alert system for a data pipeline that loads data into a table named 'ORDERS'. You want to trigger an alert if the number of rows loaded per hour falls below a threshold, indicating a potential issue with the data source. You need to create an alert that is triggered based on the count of rows. Consider the code snippet below and the additional requirements. Assume that the table exists and the connection is successful.

- A. Create a Snowflake task that runs every hour, executes a query to count the rows loaded in the past hour and triggers an alert using 'SYSTEM$SEND_EMAIC if the count is below the threshold. No need to create a Snowflake alert.
- B. Create a Snowflake Alert that executes a SQL query to count the number of rows loaded into the 'ORDERS table within the last hour. Configure the alert to trigger when the count is below the defined threshold. Use a Notification Integration to send alerts to a monitoring system.
- C. Create a Snowflake Stream on the 'ORDERS' table. Then create an Alert that triggers based on the metadata column, comparing it to the threshold value. This allows for real-time monitoring of data changes.
- D. You cannot create alerts based on a rolling hourly window within Snowflake. Alerts can only be based on fixed time intervals.
- E. Use Snowflake's Resource Monitor feature and adjust the credit quota to trigger an alert if the credit usage exceeds the threshold for the virtual warehouse processing data pipeline, indirectly indicating that performance is degraded or data volume has changed significantly.

Answer: B

Explanation:
Option D directly addresses the requirements by creating a Snowflake Alert that monitors the row count within the last hour and triggers when the threshold is breached. The alert can then be integrated with a notification system for timely alerts. Option A is incorrect as Snowflake supports alert conditions using rolling windows via SQL functions (e.g., "last_altereff). Option B describes a task-based solution, not using the Snowflake alert object directly. Option C is incorrect because streams track changes, not the total number of rows loaded within a period. Option E is an indirect method and does not precisely measure rows inserted; therefore, it does not satisfy the requirement of alerting based on the number of rows loaded.

NEW QUESTION # 235
You have a requirement to continuously load data from a cloud storage location into a Snowflake table. The source data is in Avro format and is being appended to the cloud storage location frequently. You want to automate this process using Snowpipe. You've

already created the Snowpipe and the associated stage and file format. However, you notice that some files are being skipped during the ingestion process, and data is missing in your Snowflake table. What is the MOST likely reason for this issue, assuming all necessary permissions and configurations (stage, file format, pipe definition) are correctly set up?

- A. The Snowpipe is paused due to exceeding the daily quota.
- B. The cloud storage event notifications are not properly configured to trigger Snowpipe.
- C. The file format definition in Snowflake is incompatible with the Avro schema.
- D. The data files in cloud storage are not being automatically detected by Snowpipe.
- E. Snowflake does not support Avro format for Snowpipe.

Answer: B

Explanation:
Option D is the most likely reason. Snowpipe relies on cloud storage event notifications (e.g., SQS for AWS S3, Event Grid for Azure Blob Storage, Pub/Sub for Google Cloud Storage) to trigger data ingestion. If these notifications are not properly configured, Snowpipe will not be notified of new files being added to the storage location, resulting in skipped files. Option A is possible, but less likely if the pipe was just created and initial data loading is failing. Option B is incorrect; Snowpipe detects files based on event notifications, not by continuously scanning the storage location. Option C could be an issue, but the question states the file format is defined. Option E is incorrect; Snowpipe does support Avro format.

NEW QUESTION # 236
You accidentally truncated a large table named 'SALES DATA' in your 'REPORTING DB" database. You realize this happened 2 days ago, and your account has the default Time Travel retention of 1 day. You need to recover this table with minimal downtime. Analyze the situation and determine the best course of action, considering cost and recovery time.

- A. Increase the account-level to 2 days and then use the UNDROP TABLE SALES_DATA' command.
- B. Raise a support ticket requesting data recovery from failsafe. Since data retention period has expired.
- C. Create a clone of the table using the 'AT clause and a timestamp from 1 day ago. This would prevent any additional cost.
- D. Immediately contact Snowflake Support to initiate a restore from Fail-safe, understanding that this process may take several hours or even days.
- E. Because the data retention period has expired, the table is unrecoverable using Snowflake's built-in features; you must restore from an external backup solution if available.

Answer: D

Explanation:
Since the Time Travel window (1 day) has passed, the 'UNDROP' command and cloning using or 'BEFORE clauses will not work (eliminating options B and D). While option C might be true if no external backups exist, the most appropriate first step is to contact Snowflake support (option A). This is because, even though Time Travel has expired, Fail-safe might still contain the data, offering a potential recovery path, although it is a longer process and not guaranteed. Option E is also a valid answer.

NEW QUESTION # 237
You are designing a data pipeline in Snowflake that involves several tasks chained together. One of the tasks, 'task B' , depends on the successful completion of 'task A'. 'task_B' occasionally fails due to transient network issues. To ensure the pipeline's robustness, you need to implement a retry mechanism for 'task_B' without using external orchestration tools. What is the MOST efficient way to achieve this using native Snowflake features, while also limiting the number of retries to prevent infinite loops and excessive resource consumption? Assume the task definition for 'task_B' is as follows:

- A. Modify the task definition of 'task_B' to include a SQL statement that checks for the success of 'task_R in the TASK_HISTORY view before executing the main logic. If 'task_A' failed, use ' SYSTEM$WAIT to introduce a delay and then retry the main logic. Implement a counter to limit the number of retries.
- B. Leverage Snowflake's event tables like QUERY_HISTORY and TASK _ HISTORY in the ACCOUNT_USAGE schema joined with custom metadata tags to correlate specific transformation steps to execution times and resource usage. Also set up alerting based on defined performance thresholds.
- C. Utilize Snowflake's external functions to call a retry service implemented in a cloud function (e.g., AWS Lambda or Azure Function). The external function will handle the retry logic and update the task status in Snowflake.
- D. Embed the retry logic directly within the stored procedure called by 'task_B'. The stored procedure should catch exceptions related to network issues, introduce a delay using 'SYSTEM$WAIT , and retry the main logic. Implement a loop with a maximum retry count.

- E. Create a separate task, 'task_C', that is scheduled to run immediately after 'task will check the status of 'task_BS in the TASK HISTORY view. If 'task_B' failed, 'task_c' will re-enable 'task_B' and suspend itself. Use the parameter on 'task_B' to limit the number of retries.

Answer: D

Explanation:
Option C is the most efficient and self-contained approach using native Snowflake features. Embedding the retry logic within the stored procedure called by 'task_ff allows for fine-grained control over the retry process, exception handling, and delay implementation. The retry count limit prevents infinite loops. Option A, while technically feasible, involves querying the TASK HISTORY view, which can be less efficient. Option B requires creating and managing an additional task. Option D introduces external dependencies, making the solution more complex. Option E does not address the retry mechanism.

NEW QUESTION # 238

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