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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q173-Q178):

NEW QUESTION # 173
A Data Engineer needs to implement dynamic data masking for a PII column named in a table 'CUSTOMERS. The masking policy should apply only to users with the role 'ANALYST. If the user is not an 'ANALYST, the full 'EMAIL' address should be displayed. Which of the following is the MOST efficient and secure way to achieve this using Snowflake's masking policies?

- A. Option A
- B. Option E
- C. Option C
- D. Option B
- E. Option D

Answer: D

Explanation:

Using is the most efficient and recommended approach for checking a user's active role within a masking policy. It avoids unnecessary parsing or string comparisons. It directly checks if the role is active in the current session, providing a clear and performant check. The other options either rely on string comparisons, which can be less reliable, or are overly complex and inefficient ways to determine role membership.

NEW QUESTION # 174
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. 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.
- B. 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$WAIT to introduce a delay and then retry the main logic. Implement a counter to limit the number of retries.
- C. Embed the retry logic directly within the stored procedure called by 'task_B'. The stored procedure should catch exceptions related to network issues, introduce a delay using 'SYSTEM$WAIT , and retry the main logic. Implement a loop with a maximum retry count.
- D. 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.
- E. 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.

Answer: C

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 # 175
You're tasked with building a data pipeline using Snowpark Python to incrementally load data into a target table 'SALES SUMMARY from a source table 'RAW SALES. The pipeline needs to ensure that only new or updated records from 'RAW SALES are merged into 'SALES SUMMARY' based on a 'TRANSACTION ID'. You want to use Snowpark's 'MERGE' operation for this, but you also need to handle potential conflicts and log any rejected records to an error table 'SALES SUMMARY ERRORS'. Which of the following approaches offers the MOST robust and efficient solution for handling errors and ensuring data integrity within the MERGE statement?

- A. Use the 'WHEN MATCHED THEN UPDATE' clause to update existing records and the 'WHEN NOT MATCHED THEN INSERT clause to insert new records. Implement a separate process to periodically compare 'SALES_SUMMARY with 'RAW_SALES' to identify and log any inconsistencies.
- B. Use a single 'MERGE statement with 'WHEN MATCHED THEN UPDATE and 'WHEN NOT MATCHED THEN INSERT clauses. Capture rejected records by leveraging the ' SYSTEM$PIPE STATUS function after the 'MERGE operation to identify rows that failed during the merge.
- C. Incorporate an 'ELSE clause in the 'MERGE' statement to capture records that do not satisfy the update or insert conditions due to data quality issues. Use this 'ELSE clause to insert rejected records into 'SALES SUMMARY ERRORS'
- D. Employ the 'MERGE statement with 'WHEN MATCHED THEN UPDATE' and 'WHEN NOT MATCHED THEN INSERT clauses, and use a stored procedure that executes the 'MERGE statement and then conditionally inserts rejected records into the 'SALES SUMMARY ERRORS' table based on criteria defined within the stored procedure. This will use the table function on the output.
- E. Utilize the 'WHEN MATCHED THEN UPDATE and 'WHEN NOT MATCHED THEN INSERT clauses with a 'WHERE' condition in each clause to filter out potentially problematic records. Log these filtered records to using a separate

'INSERT statement after the 'MERGE operation.

Answer: D

Explanation:
Option E provides the most robust solution. Using a stored procedure to execute the MERGE allows for more complex error handling logic. Critically, the result_scan function of the MERGE query can then be used to identify and analyze the success or failure of each individual record processed within the MERGE. This avoids separate processes or post-merge comparisons and is therefore more robust. Option A requires a separate process for inconsistency checking, which is less efficient and may miss real-time errors. Options B, C, and D do not offer a reliable and atomic way to capture and log all rejected records. The SYSTEM$PIPE_STATUS function is relevant for Snowpipe, not direct MERGE operations.

NEW QUESTION # 176

- A. The Snowflake external function is not correctly parsing the JSON response from the Lambda function. Implement a wrapper function in Snowflake to parse the JSON and extract the discount value before returning it.
- B. The Lambda function returns the discount within a nested JSON structure Tdata': [[discount]]}'. The Snowflake function is not designed to handle this. The lambda function should return '{'data':
- C. The data types in the Lambda function and Snowflake function definition do not match. Specifically, the Lambda function expects strings while Snowflake is sending numbers and vice versa. Modify the Lambda function to handle numeric inputs and ensure the Snowflake function definition aligns with the expected output data type (FLOAT).
- D. The Lambda function is returning a string instead of a number. Modify the Lambda function to return the discount as a number (e.g., 'discount = 0.15' instead of'discount = '0.15'')
- E. The 'RETURNS NULL ON NULL INPUT clause in the external function definition is causing the function to return NULL even when valid inputs are provided. Remove this clause.

Answer: A

Explanation:
The most likely cause is (B). Snowflake expects the external function to return a single value directly convertible to the declared return type. The Lambda function is returning a JSON object that needs to be parsed. Snowflake needs a wrapper function to extract the numerical result from the json response. All other issues have been taken care of in the question and is not the cause of the problem.

NEW QUESTION # 177
Consider a scenario where you have a Snowflake table named 'CUSTOMER DATA' containing customer IDs (INTEGER) and encrypted credit card numbers (VARCHAR). You need to create a secure JavaScript UDF to decrypt these credit card numbers using a custom encryption key stored securely within Snowflake's internal stage, and then mask all but the last four digits of the decrypted number for data protection. Which of the following actions are necessary to ensure both functionality and security while adhering to Snowflake's best practices for UDF development and security?

- A. Store the encryption key directly within the JavaScript UDF code as a string variable.
- B. Use Snowflake's Secure Vault (Secret) feature to store the encryption key and retrieve it securely within the UDF.
- C. Pass the encryption key as an argument to the UDF each time it is called.
- D. Store the encryption key in a separate file on an internal stage accessible only by the UDF's service account and load the key from the file within the UDF at runtime.
- E. Encrypt the key using a weaker encryption algorithm before storing it in an internal stage to balance security and performance.

Answer: B,D

Explanation:
Options B and D are the correct answers. Option B - Storing the encryption key in a file on an internal stage, accessible only by the UDF's service account, is a secure way to manage the key. Option D - Snowflake's Secure Vault (Secret) feature is designed specifically for securely storing and managing sensitive information like encryption keys. This is the most recommended approach. Options A and C are insecure and should be avoided. Option E defeats the purpose of encryption.

NEW QUESTION # 178
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