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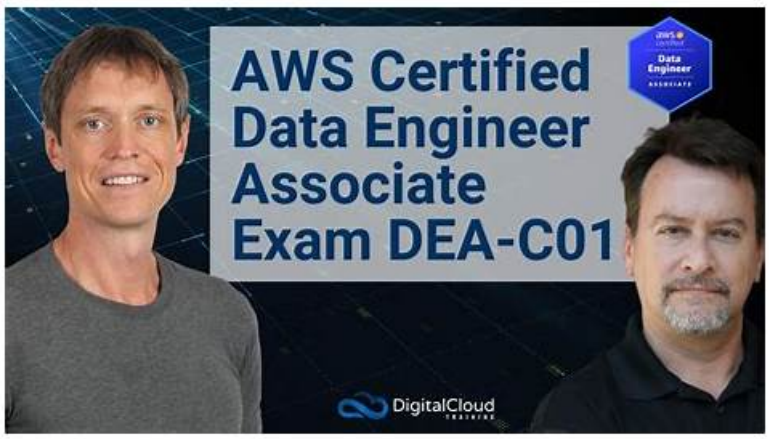

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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q324-Q329):

NEW QUESTION # 324
You are building a data pipeline that extracts data from a REST API, transforms it using Pandas DataFrames, and loads it into Snowflake. You need to implement error handling to gracefully handle network issues and API rate limits. Which of the following code snippets demonstrates the most robust approach to handle potential errors during data loading into Snowflake using the Python connector?

- ```python try: cursor.execute("INSERT INTO my_table VALUES (%s, %s)", (data1, data2)) except Exception as e: print(f"Error inserting data: {e}") ```
- ```python try: cursor.execute("INSERT INTO my_table VALUES (%s, %s)", (data1, data2)) except snowflake.connector.errors.ProgrammingError as e: print(f"SQL Syntax Error: {e}") except snowflake.connector.errors.OperationalError as e: print(f"Connection Error: {e}") except Exception as e: print(f"Other Error: {e}") ```
- ```python import snowflake.connector try: cursor.execute("INSERT INTO my_table VALUES (%s, %s)", (data1, data2)) connection.commit() except snowflake.connector.errors.ProgrammingError as e: print(f"SQL Syntax Error: {e}") connection.rollback() except snowflake.connector.errors.OperationalError as e: print(f"Connection Error: {e}") # Implement retry logic here (e.g., exponential backoff) print("Retrying...") except Exception as e: print(f"Other Error: {e}") connection.rollback() ```
- ```python cursor.execute("INSERT INTO my_table VALUES (%s, %s)", (data1, data2)) ```
- ```python cursor.execute("INSERT INTO my_table VALUES (%s, %s)", (data1, data2)) connection.commit() ```

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

Answer: A

Explanation:
Option C provides the most robust error handling. It specifically catches 'snowflake.connector.errors.ProgrammingError' for SQL syntax errors and 'snowflake.connector.errors.OperationalError' for connection errors. Crucially, it includes 'connection.rollback()" in case of errors to maintain data consistency and suggests a retry mechanism (exponential backoff) for connection issues, making it more resilient. Options A and B offer basic error handling but lack granularity and rollback mechanisms. Options D and E have no error handling at all and are therefore inadequate.

NEW QUESTION # 325
You are using Snowpipe with an external function to transform data as it is loaded into Snowflake. The Snowpipe is configured to load data from AWS SQS and S3. You observe that some messages are not being processed by the external function, and the data is not appearing in the target table. You have verified that the Snowpipe is enabled and the SQS queue is receiving notifications. Analyze the following potential causes and select all that apply:

- A. The data being loaded into Snowflake does not conform to the expected format for the external function. Validate the structure and content of the data before loading it into Snowflake.
- B. The external function is experiencing timeouts or errors, causing it to reject some records. Review the external function logs and increase the timeout settings if necessary.
- C. The AWS Lambda function (or other external function) does not have sufficient memory or resources to process the incoming data volume, leading to function invocations being throttled and messages remaining unprocessed.
- D. The Snowpipe configuration is missing a setting that allows the external function to access the data files in S3. Ensure that the storage integration is configured to allow access to the S3 location.
- E. The IAM role associated with the Snowflake stage does not have permission to invoke the external function. Verify that the role has the necessary permissions in AWS IAM.

Answer: A,B,C,E

Explanation:
When using Snowpipe with external functions, several factors can cause messages to be dropped or unprocessed. The most common include external function errors or timeouts (A), permission issues between Snowflake and the external function (B), data format mismatches (C), and the external function lacking resources (E) leading to throttling. Option D is less likely, as the storage integration is primarily for COPY INTO and not direct Lambda function calls, assuming the Lambda function retrieves the data directly from S3 using the event data provided by SQS. The permissions issue B is still relevant as the lambda function will need access to the files in S3.

NEW QUESTION # 326
A data engineer is responsible for maintaining a Snowflake data warehouse. They notice a significant slowdown in the performance of a specific query that aggregates data from a table called 'SALES DATA', which contains billions of rows. The query is used for generating daily sales reports. The engineer suspects that the issue might be related to clustering. How would you diagnose the effectiveness of the clustering on the 'SALES DATA' table and identify potential improvements?

- A. Examine the query profile in the Snowflake web interface to identify stages that are scanning large amounts of data. Check if these stages are benefiting from clustering.
- B. Use the 'VALIDATE table command. This command detects fragmentation in the data due to poor clustering.
- C. Use the 'DESCRIBE TABLE SALES_DATA' command and check the 'clustering_key' property, then run 'SELECT SYSTEM$MEASURE CLUSTERING DEPTH('SALES to check the average depth of the table. Compare the clustering depth to the number of micro- partitions to assess clustering effectiveness. A depth closer to zero is best.
- D. Use the 'SHOW TABLES command to view the clustering key defined on the table. Verify that the clustering key is appropriate for the query workload.
- E. Use the SYSTEM$CLUSTERING_INFORMATION' function to analyze the clustering depth of the table. A high clustering depth indicates poor clustering.

Answer: E

Explanation:
Option A provides the most direct way to assess clustering effectiveness. 'SYSTEM$CLUSTERING INFORMATION' provides detailed metrics, including clustering depth, which directly indicates how well the data is clustered based on the clustering key. A high clustering depth suggests poor clustering, meaning that many micro-partitions need to be scanned to satisfy a query. Option B is helpful to confirm the key, but doesn't diagnose effectiveness. Option C is useful for identifying large scans but doesn't isolate clustering issues. Option D isn't a valid Snowflake command, there's no ' VALIDATE' command. Option E is very nearly correct, but it combines two separate operations, and 'SYSTEM$MEASURE_CLUSTERING DEPTH' requires the table name in the format 'database_name.schema_name.table_name'.

NEW QUESTION # 327
A data engineering team is implementing a change data capture (CDC) process using Snowflake Streams on a table 'CUSTOMER DATA'. After several days, they observe that some records are missing from the target table after the stream is consumed. The stream 'CUSTOMER DATA STREAM' is defined as follows: 'CREATE STREAM CUSTOMER DATA STREAM ON TABLE CUSTOMER DATA;' and the transformation code to process the data is shown below. What could be the possible reasons for the missing records, considering the interaction between Time Travel and Streams? Assume all table sizes are significantly larger than micro-partitions, making full table scans inefficient.

- A. The stream's offset persistence is reliant on Time Travel, If the data being ingested is older than the set Time Travel duration, the change may not be seen by the stream.
- B. The parameter for the database containing 'CUSTOMER_DATR is set to a value lower than the stream's offset persistence, causing some changes to be purged before the stream could consume them.
- C. The stream's 'AT' or 'BEFORE clause in the consumer query is incorrectly configured, causing it to skip some historical changes.
- D. The underlying table 'CUSTOMER DATA' was dropped and recreated with the same name, invalidating the stream's tracking capabilities.
- E. DML operations (e.g., DELETE, UPDATE) performed directly against the target table are interfering with the stream's ability to track changes consistently.

Answer: A,B

Explanation:
Option A is correct: If the 'DATA RETENTION_TIME IN DAYS' is less than the time it takes to consume the stream, Time Travel will not be able to retrieve the changes, leading to missing records. Option E is also correct, as time travel duration plays a significant role.

NEW QUESTION # 328
You are developing a data transformation pipeline in Snowpark Python to aggregate website traffic data'. The raw data is stored in a Snowflake table named 'website_events' , which includes columns like 'event_timestamp' , 'user_id', 'page_urr , and 'event_type'. Your goal is to calculate the number of unique users visiting each page daily and store the aggregated results in a new table named Considering performance and resource efficiency, select all the statements that are correct:

- A. Defining the schema for the table before writing the aggregated results is crucial for ensuring data type consistency and optimal storage.
- B. Applying a filter early in the pipeline to remove irrelevant 'event_type' values can significantly reduce the amount of data processed in subsequent aggregation steps.
- C. Using is the most efficient method for writing the aggregated results to Snowflake, regardless of data size.
- D. Caching the 'website_eventS DataFrame using 'cache()' before performing the aggregation is always beneficial, especially if the data volume is large.
- E. Using followed by is an efficient approach to calculate unique users per page per day.

Answer: A,B,E

Explanation:
Option A is correct: Grouping by page URL and the date part of the timestamp, followed by a distinct count of user IDs, accurately calculates unique users per page per day. Option C is correct: Defining the schema ensures data types are correctly mapped and enforced, preventing potential issues during data loading and improving storage efficiency. Option E is correct: Filtering early reduces the data volume for subsequent operations, improving performance.

NEW QUESTION # 329
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