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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q292-Q297):

NEW QUESTION # 292
A global e-commerce company, 'GlobalMart', uses Snowflake for its data warehousing needs. They operate primarily in the US (us-east-1) and Europe (eu-west-l). They're implementing cross-region replication for disaster recovery and business continuity. Their requirements are: 1) All data from the US region needs to be replicated to the EU region. 2) The failover to the EU region should have minimal downtime. 3) Replication should be automatic and continuous. Considering these requirements, which of the following Snowflake features and configurations would be the MOST suitable and efficient?

- A. Enable database replication using replication groups, configure a primary database in us-east-I , and a secondary database in eu-west-l. Set the replication schedule with 'ALTER REPLICATION GROUP ADD .
- B. Export data from the US region to cloud storage (e.g., AWS S3 or Azure Blob Storage) and then load it into the EU region using Snowpipe.

- C. Create a database replica in the EU region and manually refresh it periodically using 'CREATE DATABASE AS CLONE'
- D. Use Snowflake's Data Sharing feature to share data from the US region with an account in the EU region. This automatically replicates the data.
- E. Manually unload data from the US region and load it into the EU region using SnowSQL. Automate this process using a scheduled task.

Answer: A

Explanation:
Option B is the most suitable because it utilizes Snowflake's replication groups, which provide automated and continuous replication with minimal downtime during failover. Option A requires manual intervention. Option C doesn't truly replicate the data; it provides access to it. Options D and E are inefficient and introduce significant latency.

NEW QUESTION # 293
A data engineering team is implementing a data governance strategy in Snowflake. They need to track the lineage of a critical table 'SALES DATA' from source system ingestion to its final consumption in a dashboard. They have implemented masking policies on sensitive columns in 'SALES DATA. Which combination of Snowflake features and actions will MOST effectively allow them to monitor data lineage and object dependencies, including visibility into masking policies?

- A. Create a custom metadata repository and use Snowflake Scripting to parse query history and object metadata periodically. Manually track dependencies and policy changes by analyzing the output.
- B. Utilize Snowflake's Data Governance features, specifically enabling Data Lineage using Snowflake Horizon and utilize the view along with query the 'QUERY HISTORY view. These features natively track data flow and policy application.
- C. Rely solely on a third-party data catalog tool that integrates with Snowflake's metadata API. These tools automatically track lineage and policy information and provide the best and most effective results.
- D. Use the INFORMATION_SCHEMA views like 'TABLES', 'COLUMNS', and 'POLICY_REFERENCES'. These views, combined with custom queries to analyze query history logs, will provide a complete lineage and masking policy overview.
- E. Enable Account Usage views like 'QUERY_HISTORY, and 'ACCESS_HISTORY. These views directly show table dependencies and policy applications.

Answer: B

Explanation:
Snowflake Horizon's Data Lineage feature is designed to track the flow of data through your Snowflake environment. Combining this with 'POLICY_REFERENCES (which shows which policies are applied to which objects) and (to see how data is transformed) provides the most complete and native solution. Account Usage views and INFORMATION_SCHEMA views provide valuable metadata, but don't offer lineage tracking out-of-the-box like Snowflake Horizon. While third-party tools and custom solutions are options, leveraging Snowflake's native capabilities is generally more efficient and cost-effective for basic lineage tracking.

NEW QUESTION # 294
A data engineer is tasked with implementing a data governance strategy in Snowflake. They need to automatically apply a tag 'PII CLASSIFICATION' to all columns containing Personally Identifiable Information (PII). Given the following requirements: 1. The tag must be applied as close to data ingestion as possible. 2. The tagging process should be automated and scalable. 3. The tag value should be dynamically set based on a regular expression match against column names and data types. Which of the following approaches would be MOST effective and efficient in achieving these goals?

- A. Create a Snowflake Task that runs daily, querying the INFORMATION SCHEMCOLUMNS view, identifying potential PII columns based on regular expressions, and then executing ALTER TABLE ... ALTER COLUMN ... SET TAG commands.
- B. Implement a custom application using the Snowflake JDBC driver to periodically scan table schemas, detect PII columns, and apply tags using dynamic SQL.
- C. Implement a stored procedure that leverages external functions to call a Python script hosted on AWS Lambda, which uses a machine learning model to identify PII and apply Snowflake tags.
- D. Use Snowflake's Event Tables in conjunction with a stream and task. Configure the stream to capture DDL changes, and the task to evaluate new columns and apply the tag based on the column metadata using regular expressions.
- E. Manually tag each column containing PII using the Snowflake web UI or the 'ALTER TABLE ... ALTER COLUMN ... SET TAG' command. Train data stewards to identify and tag new columns.

Answer: D

Explanation:
Option C is the most effective because it leverages Snowflake's native event capture mechanisms (Event Tables, Streams and Tasks) to react to DDL changes in near real-time. This approach is automated, scalable, and avoids the overhead of periodic polling. Options A and B involve periodic scanning which is less efficient. Option D is manual and doesn't scale. Option E introduces unnecessary complexity with external functions and ML models for a relatively simple task, increasing operational overhead.

NEW QUESTION # 295
You are tasked with creating a resilient data pipeline using Snowpark Python. The pipeline transforms data from a raw stage to a processed stage. A key transformation involves joining two DataFrames, 'dfl' and 'df2 , based on a common column, 'id'. You want to ensure that even if 'df2 is temporarily unavailable or contains unexpected data, the pipeline continues to process 'dfl' using a default value for missing data from 'df2. Which of the following approaches provides the best balance of resilience and data integrity? Assume you have defined a default dataframe 'df default' already.

- A. Write a custom Python UDF that attempts to retrieve the corresponding data from 'df2 based on the 'id' column. If the retrieval fails for a particular ID, return a default value.
- B. Use a 'try-except' block to catch any exceptions during the join operation. If an exception occurs, use the 'fillna()' method to replace missing values with the default data value.
- C. Perform a 'left_outer' join of 'dfl' with 'df2. If 'df2 is unavailable or returns no data, replace 'df2' with a default DataFrame Cdf_default) and proceed with the join.
- D. Use 'broadcast hint on 'df2 before performing the join to reduce the chances of join failure, assuming 'df2 is a small dataframe.
- E. Perform a 'left_outer' join of 'dfl' with 'df2. If the join fails, catch the exception and proceed without the join.

Answer: C

Explanation:
Option C provides the best balance. A join ensures that all rows from 'dfl are preserved, even if there's no matching row in 'df2. By replacing 'df2 with 'df_default' when 'df2' is unavailable/empty, the pipeline continues processing 'dfl with predefined defaults, maintaining data integrity. Option A only bypasses the exception without using default value. Option B is incorrect because 'fillna' may not handle the case where 'df2 is unavailable and the whole join fails. Option D may only help with performance but does not guarantee that df2 will be available at all times. Option E is also not efficient due to UDF being slower than joins.

NEW QUESTION # 296
You are developing a Python script to perform bulk data updates in a Snowflake table. The script needs to update a large number of rows based on values from a Pandas DataFrame. Which of the following approaches is the most efficient and scalable way to achieve this using the Snowflake Python connector, minimizing the number of database operations?

- A. Create a temporary table in Snowflake, load the DataFrame into the temporary table using , and then use a single 'UPDATE' statement with a 'JOIN' to the temporary table.
- B. Iterate through the rows of the Pandas DataFrame and execute an 'UPDATE statement for each row using 'cursor.execute()'.
- C. Use 'SnowflakeCursor.executemany()' with a list of tuples containing the update values.
- D. Use with the option to insert the updated data into a staging table, then use a 'MERGE' statement to update the target table from the staging table.
- E. Construct a single, large 'UPDATE statement with multiple 'CASE WHEN' clauses to update all rows in a single operation.

Answer: C,D

Explanation:
Options B and D are the most efficient. Option B leverages staging tables and a MERGE statement, which is a highly optimized way to perform bulk updates in Snowflake. This minimizes the number of individual operations and takes advantage of Snowflake's internal optimization. Option D uses 'executemany()' , which sends multiple parameterized queries to Snowflake in a single network round trip, significantly improving performance compared to executing individual UPDATE statements. Option A is the least efficient, as it involves a separate database operation for each row. Option C might be feasible for a small number of updates but becomes unwieldy and inefficient for large datasets. Option E introduces unnecessary complexity with temporary tables; MERGE is a better solution.

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