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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q84-Q89):

NEW QUESTION # 84
You are designing a system to monitor data access patterns in Snowflake. You want to capture detailed information about all queries

executed, including the user, query text, execution time, and any potential data access violations based on security policies. Which of the following approaches, used in combination, would provide the MOST comprehensive and scalable solution for this monitoring requirement? (Select TWO)

- A. Create a stored procedure to intercept all SQL commands before execution, log them, and then execute them using 'EXECUTE IMMEDIAT
- B. Configure the 'SNOWFLAKE database's audit logs and stream them to an external security information and event management (SIEM) system.
- C. Enable the 'QUERY_HISTORY' view in the 'ACCOUNT_USAGE' schema and periodically query it using a scheduled task.
- D. Implement Snowflake's Event Tables and configure them to capture security-related events, such as data access policy violations.
- E. Enable query tagging and insert custom tags into each SQL statement indicating sensitive data access. Then, query 'QUERY HISTORY' filtering on these tags.

Answer: B,D

Explanation:
Snowflake's Event Tables are designed to capture specific events related to data access and security policy violations in a structured manner. These tables provide detailed insights into security-related activities. Configuring Snowflake's audit logs and streaming them to a SIEM system enables centralized security monitoring and analysis. This approach provides a comprehensive view of all security-related events across the Snowflake environment. Using 'QUERY _ HISTORY' will get only high level statistics. Query tagging adds overhead and is not comprehensive. Implementing a stored procedure to intercept SQL commands is not a scalable or recommended approach due to performance implications and potential security risks.

NEW QUESTION # 85
You need to define a UDF in Snowflake that takes a date as input and returns the next business day (Monday-Friday). If the input date is a Friday, the UDF should return the following Monday. If the input date is a Saturday or Sunday, the function should return the following Monday as well. Which of the following UDF definitions correctly implements this logic?

○ ```sql CREATE OR REPLACE FUNCTION NEXT_BUSINESS_DAY(input_date DATE) RETURNS DATE LANGUAGE SQL AS $$ CASE WHEN DAYOFWEEK(input_date) = 6 THEN DATEADD(day, 3, input_date) WHEN DAYOFWEEK(input_date) = 7 THEN DATEADD(day, 2, input_date) ELSE DATEADD(day, 1, input_date) END $$;

○ ```sql CREATE OR REPLACE FUNCTION NEXT_BUSINESS_DAY(input_date DATE) RETURNS DATE LANGUAGE SQL AS $$ CASE DAYOFWEEK(input_date) WHEN 5 THEN DATEADD(day, 3, input_date) WHEN 6 THEN DATEADD(day, 2, input_date) WHEN 7 THEN DATEADD(day, 1, input_date) ELSE DATEADD(day, 1, input_date) END $$; ```

○ ```sql CREATE OR REPLACE FUNCTION NEXT_BUSINESS_DAY(input_date DATE) RETURNS DATE LANGUAGE SQL AS $$ CASE DAYOFWEEK(input_date) WHEN 5 THEN DATEADD(day, 3, input_date) WHEN 6 THEN DATEADD(day, 2, input_date) WHEN 7 THEN DATEADD(day, 1, input_date) ELSE input_date END $$; ```

○ ```sql CREATE OR REPLACE FUNCTION NEXT_BUSINESS_DAY(input_date DATE) RETURNS DATE LANGUAGE SQL AS $$ CASE WHEN DAYOFWEEK(input_date) IN (6,7) THEN DATEADD(day, 8 - DAYOFWEEK(input_date), input_date) WHEN DAYOFWEEK(input_date) = 5 THEN DATEADD(day, 3, input_date) ELSE DATEADD(day, 1, input_date) END $$; ```

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

Answer: C

Explanation:
Option E correctly handles all the scenarios. It first checks if the day is a Friday (DAYOFWEEK = 5) and adds 3 days. Then, it checks if the day is a Saturday or Sunday (DAYOFWEEK IN (6, 7)) and calculates the correct number of days to add to reach Monday (8 - DAYOFWEEK(input_date)). If it's any other day, it simply returns the input date as the question only asks to move to the next business day and not the next date if its already a business day. Option A is wrong because it always adds 1 day to Monday-Thursday which does not meet the requirement, the same goes to option B as well. Option C is wrong because Monday - Thursday will return the same date. Option D doesn't return next business day, but the next day.

NEW QUESTION # 86
You have configured a Snowpipe to load data from an AWS S3 bucket into a Snowflake table. The data in S3 is updated

frequently. You've noticed that despite the Snowpipe being active and the S3 event notifications being configured correctly, some newly added files are not being picked up by the Snowpipe. You run 'SYSTEM$PIPE and see the 'executionstate' is 'RUNNING' but the 'pendingFileCount' remains at O, even after new files are placed in the S3 bucket. Choose all of the reasons that could explain the observations.

- A. The IAM role associated with your Snowflake account does not have sufficient permissions to read from the S3 bucket. Specifically, it lacks the 's3:GetObject' permission.
- B. The SQS queue or SNS topic associated with the S3 event notifications has a message retention period that is too short. Messages containing event details for new files are being deleted before Snowpipe can process them.
- C. There is an insufficient warehouse size configured for the Snowpipe. Increase the warehouse size for optimal performance.
- D. The S3 event notification configuration is missing the 's3:ObjectCreated: event type, meaning that new file creation events are not being sent to the SQS queue or SNS topic.
- E. The file format specified in the Snowpipe definition does not match the actual format of the files being placed in the S3 bucket.

Answer: A,D,E

Explanation:
The problem states that the snowpipe is active, but 'pendingFileCount' remains zero. This means that the events are not making its way to snowpipe. Insufficient permissions (A) on the IAM role will prevent Snowflake from accessing the files. Incorrect event notification settings (B) would stop events from being sent to the queue/topic. Mismatched file format will not generate any events, and will cause files to be skipped. Incorrect message retension period may result in loss of messages before snowpipe could process them, hence can be the root cause. (C) is incorrect as it does not impact picking up of event notifications. Warehouse size mainly affects processing data and not the notification retrieval.

NEW QUESTION # 87
You are tasked with implementing a projection policy in Snowflake to restrict access to certain columns of the 'EMPLOYEE table based on the user's role. The table contains columns like 'EMPLOYEE 'NAME', 'SALARY', and 'DEPARTMENT. Users with the 'HR MANAGER role should have access to all columns, while other users should only be able to see 'EMPLOYEE ID, 'NAME, and DEPARTMENT. The initial attempt to create the projection policy results in an error. What could be the reasons?

- A. The user attempting to create the projection policy does not have the 'OWNERSHIP' privilege on the 'EMPLOYEE table.
- B. The projection policy definition might contain syntax errors or reference non-existent roles or columns.
- C. Projection policies can only be applied at the database level, not at the table level.
- D. The EMPLOYEE table must have row-level security policies enabled before applying a projection policy.
- E. Projection policies are not supported in Snowflake.

Answer: A,B

Explanation:
Options D and E are correct. To create a projection policy, the user needs the 'OWNERSHIP privilege on the table. A syntax error can cause an error. Option A is incorrect since projection policies are applied at the table or view level. Projection policies exist in Snowflake, and do not depend on Row Access Policies to be enabled so B and C are incorrect.

NEW QUESTION # 88
You are responsible for monitoring a critical data pipeline that loads data from an external Kafka topic into a Snowflake table 'ORDERS' Data anomalies have been frequently observed, impacting downstream reporting. You want to implement a solution that proactively identifies and alerts on data quality issues such as missing values, invalid formats, and unexpected data distributions. Which combination of Snowflake features and approaches would be MOST effective for achieving this objective with minimal performance overhead on the pipeline itself?

- A. Creating a separate Snowflake pipeline that reads from the same Kafka topic, performs data quality checks in real-time using Snowpipe and streams the results to an alert system.
- B. Using Snowflake's 'VALIDATE' table function after the data load to check for data corruption and then trigger alerts based on the validation results.
- C. Leveraging Snowflake's Data Governance features along with Snowpark UDFs to define and enforce data quality rules at the time of ingestion using a Python- based library like Great Expectations, configured to trigger alerts through Snowflake Notifications.
- D. Implementing custom SQL-based data quality checks within a scheduled Snowflake task that runs after the data load and

writing results to an audit table for monitoring.

- E. Employing Snowflake's built-in statistics and histogram features to analyze data distribution in the 'ORDERS' table and configure alerts based on deviations from historical patterns, combined with a Snowflake Native App for data quality reporting.

Answer: C,E

Explanation:
Options C and E offer the most effective and comprehensive approach. Option C uses Snowpark UDFs to enforce data quality rules at ingestion, minimizing overhead on the primary pipeline while also providing governance. Option E complements this by using Snowflake's statistics and histograms for anomaly detection based on historical patterns. This combination allows for both proactive rule-based checks and reactive monitoring of data distribution.

NEW QUESTION # 89

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