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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q159-Q164):

NEW QUESTION # 159

A data engineering team is implementing column-level security on a Snowflake table named 'CUSTOMER DATA' containing sensitive PII. They want to mask the 'EMAIL' column for users in the 'ANALYST' role but allow users in the 'DATA SCIENTIST' role to view the unmasked email addresses. The 'ANALYST' role already has SELECT privileges on the table. Which of the following steps are necessary to achieve this using a masking policy?

- A. Create a dedicated view on 'CUSTOMER DATA' for analysts with the 'EMAIL' column masked using a CASE statement within the view's SELECT statement. Grant SELECT privilege to the ANALYST role on the view only.
- B. Create a masking policy that uses the CURRENT_USER() function to check if the current user belongs to the 'ANALYST' role.
- C. Create a masking policy that uses the CURRENT_ROLE() function to return a masked value if the current role is 'ANALYST' and the original value otherwise.

- D. Create a masking policy with a CASE statement that checks the CURRENT_ROLE() function to see if it's 'ANALYST'. If true, mask the email; otherwise, return the original email.
- E. Create a masking policy that uses the IS_ROLE_IN_SESSION('ANALYST') function to return a masked value if the analyst role is active in current session and the original value otherwise.

Answer: C,D

Explanation:

Options A and D are correct. They both use the 'CURRENT_ROLE()' function within the masking policy to conditionally mask the email addresses based on the active role. Option B uses which checks if a role has been granted to the user which is not the intention. CURRENT_USER is not appropriate because the requirement is role-based. Creating a view (option E) is a valid but less scalable and maintainable solution compared to a masking policy. Creating a view will require more maintenance than creating a policy which is more integrated and scalable.

NEW QUESTION # 160

Consider a scenario where you have a Snowflake external table 'ext_logs' pointing to log files in an S3 bucket. The log files are continuously being updated, and new files are added frequently. You want to ensure that your external table always reflects the latest data available in S3. Which of the following actions and configurations are required or recommended to keep the external table synchronized with the underlying data source? (Select all that apply)

- A. Configure an event notification service (e.g., AWS SQS) to trigger an external table refresh whenever new files are added to S3.
- B. Periodically execute the 'ALTER EXTERNAL TABLE ext_logs REFRESH' command to update the metadata about the files in S3.
- C. Enable auto-refresh on the external table using the 'AUTO_REFRESH = TRUE' parameter during creation.
- D. Implement a stored procedure that periodically executes a query on the external table to force a metadata refresh.
- E. Create a Snowpipe that continuously loads data from the S3 bucket into a Snowflake table instead of using an external table.

Answer: A,B,C

Explanation:

Enabling 'AUTO_REFRESH = TRUE' (A) automatically refreshes the metadata. Executing 'ALTER EXTERNAL TABLE . REFRESH' (B) manually updates the metadata. Configuring event notifications (C) allows near real-time updates when new files are added. Snowpipe loads data into a Snowflake table, not an external table (D). A stored procedure executing queries doesn't guarantee metadata refresh (E).

NEW QUESTION # 161

A financial institution needs to implement both dynamic data masking and column-level security on the 'CUSTOMER_DATA' table, which contains sensitive information like 'CREDIT_CARD_NUMBER' and 'SSN'. The requirement is: all users except those in the 'DATA_ADMIN' role should see masked credit card numbers (last 4 digits unmasked) and masked SSNs. Users in 'DATA_ADMIN' should see the original data. Which of the following combination of policies and grants will achieve this?

- A. Create two masking policies: one for 'CREDIT_CARD_NUMBER' and another for 'SSN'. Grant APPLY MASKING POLICY privilege to the 'DATA_ADMIN' role. Do not grant any SELECT privileges on the table.
- B. Create two masking policies: one for 'CREDIT_CARD_NUMBER' and another for 'SSN'. Grant APPLY MASKING POLICY privilege to the 'DATA_ADMIN' role. Apply masking policies to the appropriate columns. Grant SELECT privilege on the table to PUBLIC.
- C. Create two masking policies: one for 'CREDIT_CARD_NUMBER' and another for 'SSN' using the 'CASE' statement to apply masking logic based on the current_role(). Apply masking policies to the appropriate columns. Grant SELECT privilege on the table to PUBLIC.
- D. Create two masking policies: one for 'CREDIT_CARD_NUMBER' and another for 'SSN'. Grant APPLY MASKING POLICY privilege to the 'DATA_ADMIN' role and then apply masking policies to the appropriate columns. Grant SELECT privilege on the table to PUBLIC.
- E. Create two masking policies: one for 'CREDIT_CARD_NUMBER' and another for 'SSN'. Apply masking policies to the appropriate columns. Create a custom role with the 'APPLY MASKING POLICY' privilege, grant this custom role to the 'DATA_ADMIN' role. Grant SELECT privilege on the table to PUBLIC.

Answer: C

Explanation:

Option E correctly implements both dynamic data masking and column-level security. The 'CASE' statement within the masking policy allows for different masking logic based on the current role. Granting SELECT to PUBLIC allows all users access to the table, while the masking policy controls what they see. Options A, B, C and D fails to implement either correct masking logic within policies or proper grant structure.

NEW QUESTION # 162

You are tasked with ingesting data from an external stage into Snowflake. The data is in JSON format and compressed using GZIP. The JSON files contain nested arrays. You need to create a file format object that Snowflake can use to properly parse the data. Which of the following options represents the MOST efficient and correct file format definition to achieve this? Assume the stage is already created and accessible.

- ☐ CREATE OR REPLACE FILE FORMAT my_json_format TYPE = 'JSON' COMPRESSION = 'GZIP';
- ☐ CREATE OR REPLACE FILE FORMAT my_json_format TYPE = 'JSON' COMPRESSION = 'GZIP' STRIP_OUTER_ARRAY = TRUE;
- ☐ CREATE OR REPLACE FILE FORMAT my_json_format TYPE = 'JSON' COMPRESSION = 'GZIP' ENABLE_OCTAL = FALSE;
- ☐ CREATE OR REPLACE FILE FORMAT my_json_format TYPE = 'JSON';
- ☐ CREATE OR REPLACE FILE FORMAT my_json_format TYPE = 'JSON' COMPRESSION = 'AUTO' STRIP_OUTER_ARRAY = TRUE;

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

Answer: E

Explanation:

Option B is the most efficient and correct. The COMPRESSION = 'GZIP' parameter is necessary to handle the GZIP compression. 'STRIP OUTER ARRAY = TRUE' is crucial when dealing with JSON files containing nested arrays or a single outer array, which is a common scenario for data coming from external sources. It allows Snowflake to correctly parse each element of the array as a separate row. Option A is incorrect because it doesn't address the potential outer array structure. Option C is incorrect because 'ENABLE OCTAL' is not relevant to the array structure issue. Option D is incorrect as it lacks the compression parameter. Option E is also suitable, but gzip is better performance than AUTO.

NEW QUESTION # 163

You have implemented a Snowpipe using auto-ingest to load data from an AWS S3 bucket. The pipe is configured to load data into a table with a 'DATE' column ('TRANSACTION DATE'). The data files in S3 contain a date field in the format 'YYYYMMDD'. Occasionally, you observe data loading failures in Snowpipe with the error message indicating an issue converting the string to a date. The 'FILE FORMAT' definition includes 'DATE FORMAT = 'YYYYMMDD''. Furthermore, you are also noticing that after a while, some files are not being ingested even though they are present in the S3 bucket. How to effectively diagnose and resolve these issues?

- A. Snowflake's auto-ingest feature has limitations and may not be suitable for inconsistent data formats. Consider using the Snowpipe REST API to implement custom error handling and data validation logic. Monitor the Snowflake event queue to ensure events are being received.
- B. The issue may arise if the time zone of the Snowflake account does not match the time zone of your data in AWS S3. Try setting the 'TIMEZONE' parameter in the FILE FORMAT definition. For files that are not being ingested, manually refresh the Snowpipe with 'ALTER PIPE ... REFRESH'.
- C. Verify that the 'DATE FORMAT' is correct and that all files consistently adhere to this format. Check for corrupted files in S3 that may be preventing Snowpipe from processing subsequent files. Additionally, review the Snowpipe error notifications in Snowflake to identify the root cause of ingestion failures. Use 'SYSTEM\$PIPE' to troubleshoot the files not ingested.
- D. The error could be due to invalid characters in the source data files. Implement data cleansing steps to remove invalid characters from the date fields before uploading to S3. For files not being ingested, check S3 event notifications for missing or failed events.
- E. The 'DATE FORMAT' parameter is case-sensitive. Ensure it matches the case of the incoming data. Also, check the 'VALIDATION MODE' and 'ERROR' parameters to ensure error handling is appropriately configured for files with date

format errors. For the files that are not ingested use 'SYSTEM\$PIPE to find the cause of the issue.

Answer: C,E

Explanation:

Option A is partially correct as the validation_mode parameter in file format needs to be reviewed, not only the case sensitivity for the date. Case sensitivity isn't strictly enforced for DATE FORMAT. Snowflake's documentation specifies the valid specifiers (YYYY, MM, DD, etc.) which are generally case-insensitive in this context. The 'VALIDATION MODE' and 'ON ERROR' parameters in the copy option are critical. Incorrect handling of files that fails can cause future file ingests to stop. Option E highlights the importance of verifying the data format consistency and checking for corrupted files. Corrupted files or files that do not adhere to the specified format can cause Snowpipe to fail and potentially stop processing further files. Option B is incorrect, while timezone mismatches can cause issues, they don't directly lead to data loading failures with format conversion if the format is wrong or if file validation caused the issue. Option C's suggestion of data cleansing is valid in general, but it addresses a different problem (data quality) than the specific error described in the question. Option D proposes switching to the REST API, which is an overkill for this scenario. The auto-ingest feature is suitable; the problem is likely with data format inconsistencies or error handling.

NEW QUESTION # 164

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