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SnowPro Advanced: Data Engineer DEA-C02 Exam Questions

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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q37-Q42):

NEW QUESTION # 37

Given the following scenario: You have an external table 'EXT SALES' in Snowflake pointing to a data lake in Azure Blob Storage. The storage account network rules are configured to only allow specific IP addresses and virtual network subnets, enhancing security. You are getting intermittent errors when querying 'EXT SALES'. Which of the following could be the cause(s) and the corresponding solution(s)? Select all that apply.

- A. The file format specified in the external table definition does not match the actual format of the files in Azure Blob Storage. Solution: Update the 'FILE_FORMAT' parameter in the external table definition to match the correct file format.
- B. The Snowflake IP addresses used to access the Azure Blob Storage are not whitelisted in the storage account's firewall settings. Solution: Obtain the Snowflake IP address ranges for your region and add them to the storage account's allowed IP addresses.

- C. The Snowflake service principal does not have the correct permissions on the Azure Blob Storage account. Solution: Ensure the Snowflake service principal has the 'Storage Blob Data Reader' role assigned to it.
- D. The table function cache is stale, causing access to non-existent files. Solution: Run 'ALTER EXTERNAL TABLE EXT_SALES REFRESH'.
- E. The network connectivity between Snowflake and Azure Blob Storage is unstable. Solution: Implement retry logic in your queries to handle transient network errors.

Answer: B,C

Explanation:

Options A and C are the most likely causes. Network restrictions often lead to connectivity issues if Snowflake's IP addresses are not whitelisted (A). Incorrect permissions for the Snowflake service principal (C) will also prevent access to the data lake. Option B is relevant if there are issues around schema changes or new files added. Option D will cause errors all the time not intermittently. Option E Snowflake automatically retries some queries. In a secure environment where IP whitelisting is mandated and IAM roles are properly configured, intermittent failures suggest a permission or a networking issue.

NEW QUESTION # 38

You have a data pipeline that loads data from an internal stage into a Snowflake table (Craw_data'). The pipeline is experiencing intermittent failures with the error 'SQL compilation error: Stage 'MY INTERNAL STAGE' is immutable'. What are the potential causes of this error and how would you troubleshoot it?

- A. Another concurrent process is attempting to drop or alter the internal stage while the COPY INTO command is running. Implement proper locking mechanisms to prevent concurrent modifications.
- B. The internal stage is being used by multiple COPY INTO commands simultaneously, causing a resource contention issue. Implement queuing or throttling mechanisms to manage concurrent data loading.
- C. This error is caused by insufficient warehouse size. Increase the warehouse size to accommodate the COPY INTO operation.
- D. The internal stage has been accidentally dropped and recreated with the same name during the COPY operation. Verify the stage's existence and creation timestamp.
- E. The user executing the COPY INTO command lacks the necessary privileges (USAGE on the stage). Grant the appropriate privileges to the user or role.

Answer: A,D

Explanation:

The 'Stage is immutable' error typically indicates that the stage's definition has changed during the COPY operation. This can happen if the stage is dropped and recreated (option A) or if another process is altering the stage concurrently (option C). Privilege issues (option B) would usually result in a different error message. Resource contention (option D) is less likely to cause this specific error but could impact performance. Warehouse size (option E) is generally not directly related to this error.

NEW QUESTION # 39

You are tasked with optimizing a continuous data pipeline that loads data from an external stage into a Snowflake table using streams.

The pipeline is experiencing significant latency during peak hours. The stream is defined on a very large table with frequent updates and deletes. Which of the following strategies would be MOST effective in reducing the latency of the data pipeline, considering stream performance and cost implications?

- A. Increase the size of the virtual warehouse used for loading data. This will provide more compute resources for processing the stream.
- B. Implement a more aggressive pruning strategy on the base table to reduce the amount of data that the stream needs to track.
- C. Implement a materialized view on top of the stream to pre-aggregate the data.
- D. Create multiple streams on the same base table, each filtering for specific types of changes (e.g., INSERT, UPDATE, DELETE).
- E. Reduce the RETENTION TIME of the stream. This will limit the amount of historical data tracked and improve performance.

Answer: B

Explanation:

Pruning on the base table directly reduces the amount of data the stream has to track, therefore improving performance. Increasing warehouse size (A) might help but is not directly related to the stream's efficiency. Creating multiple streams (C) will likely increase the overhead. Reducing RETENTION _ TIME (D) might lead to data loss if changes are not consumed promptly. A materialized view (E) consumes credits and does not directly affect stream performance. The correct answer focuses on minimizing the workload for the stream itself.

NEW QUESTION # 40

You have a Snowflake stage named that points to an S3 bucket containing JSON log files. You want to create a directory table to track the files and their metadata'. The log files are continuously being added to the bucket. Which of the following sets of steps is the MOST efficient way to create and maintain an up-to-date directory table for this stage?

- ☐ 1. Create a directory table using `CREATE OR REPLACE DIRECTORY TABLE my_directory_table REFRESH_ON_CREATE = TRUE AS SELECT $1 FROM @my_s3_stage;` 2. Manually refresh the directory table periodically using `ALTER DIRECTORY TABLE my_directory_table REFRESH;`
- ☐ 1. Create a directory table using `CREATE OR REPLACE DIRECTORY TABLE my_directory_table AS SELECT $1 FROM @my_s3_stage;` 2. Configure an Event Notification on the S3 bucket to trigger a Snowflake Task that executes `ALTER DIRECTORY TABLE my_directory_table REFRESH;` whenever a new file is added.
- ☐ 1. Create a directory table using `CREATE OR REPLACE DIRECTORY TABLE my_directory_table REFRESH_AUTOMATICALLY = TRUE AS SELECT $1 FROM @my_s3_stage;`
- ☐ 1. Create a directory table using `CREATE OR REPLACE DIRECTORY TABLE my_directory_table AS SELECT $1 FROM @my_s3_stage;` 2. Schedule a Snowflake Task to periodically execute `ALTER DIRECTORY TABLE my_directory_table REFRESH;`
- ☐ 1. Create a directory table using `CREATE OR REPLACE DIRECTORY TABLE my_directory_table AUTO_REFRESH = TRUE AS SELECT $1 FROM @my_s3_stage;`

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

Answer: E

Explanation:

Option D is the most efficient. While S3 event notifications (option B) can be faster, setting up and maintaining the event notification infrastructure and ensuring delivery can be complex. Only refreshes at creation. There is no REFRESH_AUTOMATICALLY or 'AUTO REFRESH' clause. Scheduling a Snowflake Task provides a managed and relatively simple way to keep the directory table up-to-date. The refresh interval for task should be configured for optimal performance.

NEW QUESTION # 41

You are tasked with implementing data masking on a 'CUSTOMER' table. The requirement is to mask the 'EMAIL' column for all users except those with the 'DATA ADMIN' role. You have the following code snippet. What is wrong with it?

- A. The masking policy syntax is incorrect. It should use `'CASE WHEN IS_ROLE_IN_SESSION('DATA_ADMIN') THEN EMAIL ELSE 'masked@example.com' END'`.
- B. The masking policy is applied to the wrong column. It should be applied to the ID column, not the EMAIL column.
- C. The WITH clause is unnecessary.
- D. There is no code provided, so there is nothing wrong with it.
- E. Without masking policy code, it's impossible to determine if there is anything wrong.

Answer: E

Explanation:

Without the masking policy code, it's impossible to determine if there are any errors. Option A is wrong without any data, Option B can be correct but we cannot know without code. Option C may be right but we do not know as well. Option D assumes there is no code provided, but we simply can't see it here. The correct answer is E, since we cannot determine the answer without code.

NEW QUESTION # 42

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