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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q130-Q135):

NEW QUESTION # 130

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. 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

- B. 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.
- C. 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'.
- 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. 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.

Answer: A,B

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 # 131

You are building a data pipeline to ingest JSON data from an external API using the Snowflake SQL API. The API returns nested JSON structures, and you need to extract specific fields and load them into a Snowflake table with a flattened schema. You also need to handle potential schema variations and missing fields in the JSON data. Which approach provides the MOST robust and flexible solution for this scenario, maximizing data quality and minimizing manual intervention?

- A. Parse the JSON data in your client application (e.g., Python) using a library like 'json' or , transform the data into a tabular format, and then use the Snowflake Connector for Python to load the data into Snowflake.
- B. Use the 'JSON TABLE' function in a Snowflake SQL query executed via the SQL API to flatten the JSON data and extract the required fields. Handle missing fields by using 'DEFAULT' values in the table schema.
- C. Use a stored procedure with dynamic SQL to parse the JSON, create new tables based on the current schema, and load data. Maintain metadata on table versions.
- D. Utilize Snowflake's schema detection feature during the COPY INTO process. This will automatically infer the schema from the JSON data and create the table accordingly.
- E. Load the raw JSON data into a VARIANT column in Snowflake. Create a series of views on top of the VARIANT column to extract the required fields and handle schema variations using 'TRY TO ' functions.

Answer: E

Explanation:

Loading the raw JSON into a VARIANT column and creating views with 'TRY TO' functions provides the most flexible and robust solution. It allows you to handle schema variations gracefully without requiring changes to the underlying table. 'JSON TABLE' (A) can be complex for deeply nested structures. Parsing in the client application (B) requires more coding and infrastructure. Schema detection during COPY INTO (D) is less flexible for handling variations. Stored procedures with dynamic SQL (E) introduces complexity in schema maintenance and evolution.

NEW QUESTION # 132

A financial services company stores sensitive customer data, including credit card numbers, in a Snowflake table called 'CUSTOMER DATA'. You need to implement dynamic data masking on the 'CREDIT CARD NUMBER' column. You want to ensure that only users with the 'FINANCE ADMIN' role can view the unmasked credit card numbers. All other users should see a masked version of the data'. Which of the following set of commands is the MOST efficient and secure way to achieve this?

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

Answer: A

Explanation:

NEW QUESTION # 133

A Snowflake data pipeline ingests data from multiple external sources into a RAW DATA table. A transformation process then moves the data to a ANALYTICS DATA table, applying several complex UDFs written in Java and Python for data cleansing and enrichment. Performance is significantly slower than expected. Which combination of techniques would BEST improve the performance of this transformation pipeline?

- A. Reduce the number of UDF calls by consolidating them into a single, more complex UDF. Replace the transformation pipeline with a series of COPY INTO statements.
- B. Rewrite the UDFs in SQL or Snowpark Python/Java for better integration with the Snowflake engine and leverage vectorization where possible; cache intermediate results using temporary tables.
- C. Use external functions instead of UDFs to offload the processing to an external compute environment and configure auto-scaling for the virtual warehouse.
- D. Implement data partitioning in the RAW DATA table based on ingestion time and switch to using stored procedures instead of transformation pipelines.
- E. Increase the virtual warehouse size and re-cluster the ANALYTICS DATA table based on the most frequently filtered columns.

Answer: B

Explanation:

Rewriting UDFs in SQL or Snowpark allows the Snowflake engine to optimize them more effectively. Using temporary tables to cache intermediate results prevents redundant computation. Option A helps, but addressing UDF performance is more crucial. Option C might add complexity. Option D is irrelevant to UDF performance. Option E is counterproductive; consolidating UDFs can reduce parallelism and COPY INTO is for initial data loading, not transformation.

NEW QUESTION # 134

You've created a JavaScript stored procedure using Snowpark to transform data'. The stored procedure is failing, and you suspect an issue with how Snowpark is handling null values during a join operation. Given two Snowpark DataFrames, and 'df2', what is the expected behavior when performing an inner join on a column containing null values in both DataFrames, and how can you mitigate potential issues?

- A. Inner Join will not throw an error, and will exclude the rows where join column is null. If you need to join records with null values, pre-processing dataframes using to replace null with a valid sentinel value before performing the join is one way to handle this.
- B. The inner join will treat null values as equal, resulting in rows where the join column is null in both DataFrames being included in the result. To avoid this, you should filter out null values before the join.
- C. The inner join will exclude rows where the join column is null in either DataFrame. To include these rows, you must use a full outer join instead.
- D. The behavior of the inner join with null values is undefined and may vary depending on the data types and the specific version of Snowpark. Explicit null handling is always required.
- E. The inner join will automatically exclude rows where the join column is null in either DataFrame. There is no need for explicit null handling.

Answer: A

Explanation:

Option E is correct. Inner joins in Snowpark, like in standard SQL, exclude rows where the join column is null in either DataFrame. While an error isn't thrown, the rows are silently dropped. To handle null values in join columns, pre-processing using .na.fill() is a common approach. Filling NA with sentinel values provides a workaround, allowing you to effectively include records where the join

column was originally null. Using .na.fill makes the join possible. Options A, B, C, and D are incorrect as they misrepresent the standard behavior of inner joins with null values.

NEW QUESTION # 135

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