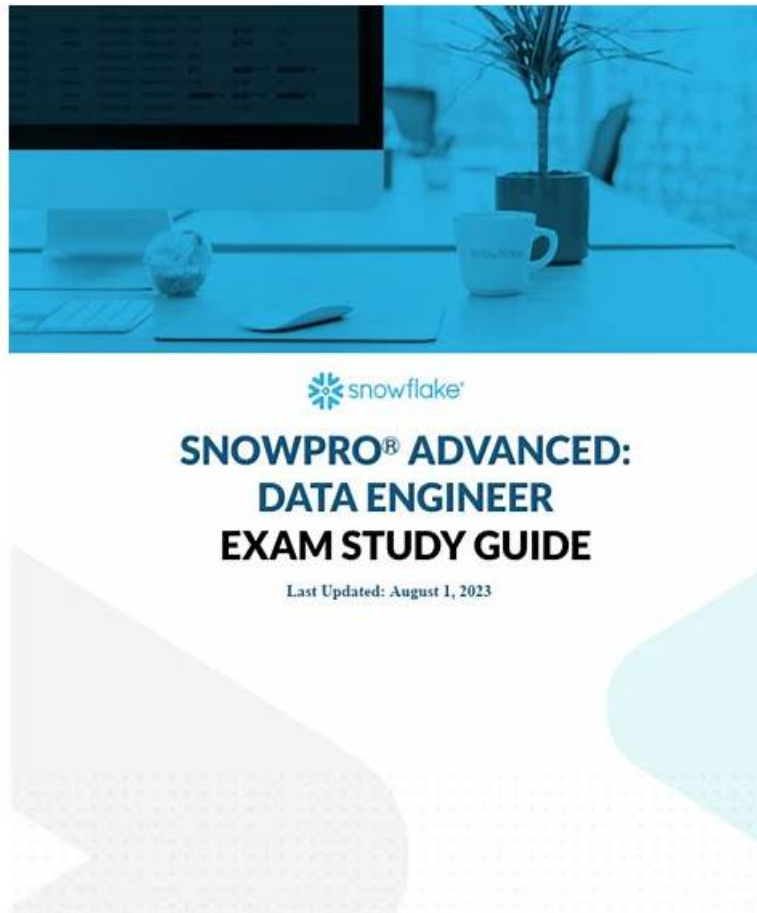


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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q221-Q226):

NEW QUESTION # 221

You are tasked with loading data from a set of highly nested JSON files into Snowflake. Some files contain an inconsistent structure where a particular field might be a string in some records and an object in others. You want to avoid data loss and ensure that you capture both string and object representations of the field. What is the most efficient approach to achieve this, minimizing data transformation outside of Snowflake?

- A. Create two separate external tables, one with the field defined as VARCHAR and another with the field defined as VARIANT. Load data into both, then UNION the results in a view.
- B. Define the field as a VARCHAR in an internal stage and use a COPY INTO statement with the VALIDATE function to identify records with object representations. Load the valid VARCHAR values. Create a separate table for the invalid object representations identified during validation.
- C. Pre-process the JSON files using a scripting language (e.g., Python) to transform object representations to string representations before loading them into Snowflake. This ensures consistent data type for the field.
- D. Define the field in the external table as VARCHAR. During data loading, use a UDF written in Python or Java to handle the different data types, transforming objects to strings. This approach requires deploying the UDF to Snowflake.
- E. Use a single external table with the field defined as VARIANT. During data loading, use the TRY CAST function within a SELECT statement to convert the field to VARCHAR when possible, V otherwise retain the VARIANT representation. Handle further processing in subsequent views or queries.

Answer: E

Explanation:

Option B is the most efficient. Defining the field as VARIANT allows Snowflake to handle different data types within the same column. TRY CAST attempts to convert the field to VARCHAR if it's a string, and retains the VARIANT representation if it's an object, avoiding data loss. This approach minimizes the need for separate tables or external data processing. A, C, D and E involve either creating multiple objects, or external stage which are not efficient.

NEW QUESTION # 222

You are tasked with building a data pipeline that incrementally loads data from an external cloud storage location (AWS S3) into a Snowflake table named 'SALES DATA'. You want to optimize the pipeline for cost and performance. Which combination of Snowflake features and configurations would be MOST efficient and cost-effective for this scenario, assuming the data volume is substantial and constantly growing?

- A. Use a Snowflake Task to regularly truncate and reload 'SALES DATA' from S3 using COPY INTO. This ensures data consistency.
- B. Create an external stage pointing to the S3 bucket. Create a Snowpipe with auto-ingest enabled, using an AWS SNS topic and SQS queue for event notifications. Configure the pipe with an error notification integration to monitor ingestion failures.
- C. Employ a third-party ETL tool to extract data from S3, transform it, and load it into Snowflake using JDBC. Schedule the ETL process using the tool's built-in scheduler.
- D. Develop a custom Python script that uses the Snowflake Connector for Python to connect to Snowflake and execute a COPY INTO command. Schedule the script to run on an EC2 instance using cron.
- E. Use a Snowflake Task scheduled every 5 minutes to execute a COPY INTO command from S3, with no file format specified, assuming the data is CSV and auto-detection will work.

Answer: B

Explanation:

Snowpipe with auto-ingest is the most efficient and cost-effective solution for continuously loading data into Snowflake from cloud storage. It leverages event notifications to trigger data loading as soon as new files are available, minimizing latency and compute costs. Option A lacks error handling and proper file format specification. Option C involves custom coding and infrastructure management. Option D introduces overhead and costs associated with a third-party ETL tool. Option E is inefficient as it truncates and reloads the entire table, losing any incremental loading benefits.

NEW QUESTION # 223

A data engineering team has created a Snowflake Listing to share their company's sales data'. They want to allow consumers to access the Listing programmatically. The consumers need to know when new versions of the Listing are available. What is the MOST efficient method for consumers to be notified about new Listing versions without continuously polling Snowflake?

- A. The data provider manually sends email notifications to each consumer whenever a new version is created.
- B. The data consumer implements a custom webhook endpoint that the data provider calls whenever a new Listing version is published. The data provider will need to maintain a list of all consumers.
- C. Snowflake automatically notifies consumers via an event notification service (e.g., AWS SNS, Azure Event Grid) integrated with the Data Marketplace when a new version is available.
- D. The consumer sets up a scheduled task in Snowflake to periodically query the 'SHOW VERSIONS' command for the Listing.

Answer: C

Explanation:

Snowflake's integration with event notification services like AWS SNS or Azure Event Grid provides the most efficient and scalable way to notify consumers about new Listing versions. This eliminates the need for manual intervention or continuous polling, making it a push-based system. Snowflake automatically handles the notification process based on preconfigured event triggers.

NEW QUESTION # 224

You are designing a data pipeline in Snowflake to process IoT sensor data'. The data arrives in JSON format, and you need to extract specific nested fields using a Snowpark UDF for performance reasons. Which of the following statements are true regarding best practices and limitations when working with complex JSON data and Snowpark UDFs (Python or Scala)? (Select all that apply)

- A. For highly complex JSON structures, consider using a Scala UDF with a robust JSON parsing library like Jackson or Gson for potentially better performance and control over error handling compared to Python UDFs.
- B. Ensure the UDF is idempotent, meaning it produces the same output for the same input, as Snowflake might execute UDFs multiple times for optimization purposes.
- C. When working with Snowpark Python UDFs, it's recommended to use the 'json' module in Python to parse the JSON data within the UDF, as it's optimized for Snowflake's internal JSON representation.
- D. Leverage Snowflake's built-in 'PARSE_JSON' function and 'GET_PATH' function outside of the UDF as much as possible before passing the data to the UDF to reduce the complexity within the UDF itself.
- E. The maximum size of the JSON document that can be processed by a Snowpark UDF is directly limited by the maximum size of the UDF code itself (typically a few MB), requiring chunking strategies for large JSON payloads.

Answer: A,B,D

Explanation:

Options B, C, and D are correct. B: Scala UDFs often offer better performance for complex operations like JSON parsing due to the JVM's efficiency and the availability of robust libraries like Jackson. Snowflake support different approaches for handling JSON parsing such as Jackson. C: UDF idempotency is crucial for reliable results, as Snowflake might rerun them for optimization. D: Pre-processing JSON data using Snowflake's built-in functions ('PARSE_JSON', 'GET_PATH') reduces the UDF's workload and can improve performance. Option A is incorrect because Snowflake has its own internal JSON representation; using standard Python 'json' module is not optimized for it. Option E is incorrect because the UDF input data size is limited by the maximum input size of the UDF and available memory not the size of the UDF code.

NEW QUESTION # 225

You are setting up a Kafka connector to load data from a Kafka topic into a Snowflake table. You want to use Snowflake's automatic schema evolution feature to handle potential schema changes in the Kafka topic. Which of the following is the correct approach to enable and configure automatic schema evolution using the Kafka Connector for Snowflake?

- A. Set the 'value.converter.schemas.enable' to 'true' and provide Avro schemas and also, configure the Snowflake table with appropriate data types for each field. Schema Evolution is not supported by the Kafka Connector for Snowflake.
- B. Set 'snowflake.ingest.file.name' to an existing file in a stage.
- C. Automatic schema evolution is not directly supported by the Kafka Connector for Snowflake. You must manually manage schema changes in Snowflake.
- D. Set the 'snowflake.data.field.name' property to the name of the column in the Snowflake table where the JSON data will

be stored as a VARIANT, and set 'snowflake.enable.schematization' to 'true'.

- E. Set the property to 'true' and the 'snowflake.ingest.stage' to an existing stage.

Answer: C

Explanation:

The correct answer is E. Currently, the Snowflake Kafka connector does not directly support automatic schema evolution. You cannot configure the connector to automatically alter the Snowflake table schema based on changes in the Kafka topic's data structure. You must manually manage schema changes in the Snowflake table to align with the structure of the data being ingested from Kafka. Option D will simply throw errors as the configuration needed is not fully complete with data types. The connector does rely heavily on the VARIANT column and would not be able to evolve properly, and so, that function is not directly available.

NEW QUESTION # 226

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