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A managed service that makes it easy for you to create and control the encryption keys used to encrypt your data.

### AWS Shield Advanced

A paid service that provides detailed attack diagnostics and the ability to detect and mitigate sophisticated DDoS attacks.

### Amazon GuardDuty

A service that provides intelligent threat detection for your AWS infrastructure and resources. It identifies threats by continuously monitoring the network activity and account behavior within your AWS environment.

### Amazon Detective

A service that collects log data from your AWS resources and uses machine learning, statistical analysis, and graph theory to build a linked set of data that enables you to easily conduct faster and more efficient security investigations.

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## Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q66-Q71):

### NEW QUESTION # 66

You're tasked with building an external function in Snowflake that calls an API to enrich customer data with geographical information (latitude and longitude) based on their IP address. The API endpoint requires an API key passed in the header. Your external function definition looks like this: `"sql CREATE OR REPLACE EXTERNAL FUNCTION VARCHAR) RETURNS VARIANT VOLATILE MAX BATCH ROWS = 100 RETURNS NULL ON NULL INPUT API INTEGRATION = AS 'https://api.example.com/geo';` Which of the following steps are essential to ensure the external function correctly passes the API key to the external service, handles rate limiting from the API, and correctly parses the JSON response from the external service (Assume the API returns a JSON object with 'latitude' and 'longitude' fields)?

- A. Implement robust logging within the external service (e.g., AWS Lambda or Azure Function) to capture details of requests, responses, and any errors encountered. Monitor these logs regularly to identify and address potential issues.
- B. Modify the external function code within the external service (e.g., AWS Lambda or Azure Function) to read the API key from an environment variable, construct the appropriate request headers (including the API key), implement exponential backoff with jitter for handling rate limits based on retry-after header if received, and ensure proper error handling for JSON parsing failures and return Snowflake compatible results.
- C. Modify the 'enrich\_ip' function to directly embed the API key within the API endpoint URL as a query parameter.
- D. Ensure the Snowflake user executing the function has the 'USAGE' privilege on the API integration object.
- E. Create a Snowflake API integration object that includes the 'ALLOWED\_HOSTS' parameter pointing to 'https://api.example.com', and configure the service to return retry-after header on rate limit and ensure retryPolicy is set to 3 retries.

**Answer: A,B,D,E**

Explanation:

The correct answers are A, B, C and E. Option A is necessary to establish trust between Snowflake and the external service. Option B ensures the API key is securely passed, rate limiting is handled gracefully, proper exception handling is implemented, and JSON is properly parsed. Option C provides proper privileges. Option E provide proper monitoring. Option D is incorrect because embedding API keys in the URL is a security vulnerability.

### NEW QUESTION # 67

You are tasked with designing a data pipeline to load data from an Azure Blob Storage container into Snowflake using an external stage. The data is in CSV format, compressed using GZIP. The container contains millions of small CSV files. To optimize the data loading process and minimize cost, which of the following strategies would you implement, considering both stage configuration and COPY INTO options? Choose TWO that apply.

- A. Use the 'VALIDATION MODE = RETURN ERRORS' option in the 'COPY INTO' statement to identify and correct any data quality issues during the load. This ensures that only clean data is loaded into Snowflake.
- B. Use the 'MATCH BY COLUMN NAME = CASE INSENSITIVE' option with a copy transformation in the 'COPY INTO' statement to ensure that the column order in the CSV files doesn't affect the data load.
- C. Consolidate the small CSV files in the Azure Blob Storage container into larger files before loading them into Snowflake. This reduces the overhead of processing numerous small files.
- D. Create a pipe object with 'AUTO INGEST = TRUE' to automatically ingest new files as they are added to the Azure Blob Storage container. This ensures near real-time data ingestion.
- E. Leverage Snowflake's Snowpipe with a REST API endpoint to trigger data loads whenever new files are available in the Azure Blob Storage container.

**Answer: C,E**

Explanation:

Consolidating small files into larger files (option E) significantly improves COPY INTO performance by reducing overhead. Using Snowpipe with a REST API endpoint (option C) allows for efficient, triggered data loading. 'VALIDATION MODE' (option A) is

useful for data quality but doesn't directly address optimization for millions of small files. 'AUTO INGEST (option B) is specific to AWS S3 and Google Cloud Storage, not Azure Blob Storage event notifications. Column matching (option D) addresses schema flexibility, not optimization.

### NEW QUESTION # 68

Consider the following Python Snowpark stored procedure designed to enrich customer data:

```
import snowflake.snowpark as snowpark
from snowflake.snowpark.functions import udf

def enrich_customer_data(session: snowpark.Session, customer_id: int) -> dict:
    @udf(return_type=snowpark.types.StringType())
    def get_external_data(customer_id: int) -> str:
        # Simulate fetching data from an external API based on customer_id
        if customer_id % 2 == 0:
            return "Premium"
        else:
            return "Standard"

    customer_df = session.sql(f"SELECT * FROM CUSTOMERS WHERE ID = {customer_id}")
    enriched_df = customer_df.with_column("CUSTOMER_TYPE", get_external_data(customer_id))

    result = enriched_df.collect()
    if result:
        return result[0].as_dict()
    else:
        return {}
```

What are potential drawbacks or limitations of this approach, and what improvements can be made to enhance its scalability and maintainability? (Select all that apply)

- A. The code is perfectly fine and doesn't require any improvements, as it effectively enriches customer data using a UDF and Snowpark DataFrame operations.
- B. The operation retrieves all rows into the client's memory, which can be inefficient for large datasets. Consider using 'write' operation to store results to table.
- C. Fetching data from an external API inside a UDF can introduce performance bottlenecks and potential network issues. Snowflake recommends minimizing external dependencies within UDFs.
- D. Defining a UDF within the stored procedure creates unnecessary overhead as the UDF is recompiled every time the stored procedure runs. It's more efficient to define the UDF separately and call it from the procedure.
- E. Hardcoding the SQL query within the stored procedure makes it inflexible. Using Snowpark DataFrame operations instead would improve maintainability.

**Answer: B,C,D,E**

Explanation:

Options A, B, C, and D are all valid drawbacks. Defining a UDF within a stored procedure can lead to recompilation overhead (A). Hardcoding SQL makes the procedure inflexible (B). External API calls within UDFs can cause performance issues (C). Using 'collect()' is inefficient for large datasets (D). Option E is incorrect as the code has several potential issues.

### NEW QUESTION # 69

You have an external table named in Snowflake that points to a set of CSV files in an AWS S3 bucket. The CSV files have a header row, and the data is comma-separated. However, some of the files in the S3 bucket are gzipped. You need to define the external table to correctly read both compressed and uncompressed files. Which of the following SQL statements BEST achieves this?

- CREATE OR REPLACE EXTERNAL TABLE ext\_sales\_data (id NUMBER, product STRING, sales NUMBER) LOCATION = @my\_s3\_stage FILE\_FORMAT = (TYPE = CSV, SKIP\_HEADER = 1);
- CREATE OR REPLACE EXTERNAL TABLE ext\_sales\_data (id NUMBER, product STRING, sales NUMBER) LOCATION = @my\_s3\_stage FILE\_FORMAT = (TYPE = CSV, SKIP\_HEADER = 1, COMPRESSION = AUTO);
- CREATE OR REPLACE EXTERNAL TABLE ext\_sales\_data (id NUMBER, product STRING, sales NUMBER) LOCATION = @my\_s3\_stage FILE\_FORMAT = (TYPE = CSV, SKIP\_HEADER = 1, COMPRESSION = GZIP);
- CREATE OR REPLACE EXTERNAL TABLE ext\_sales\_data (id NUMBER, product STRING, sales NUMBER) LOCATION = @my\_s3\_stage FILE\_FORMAT = (TYPE = CSV, SKIP\_HEADER = 1) REFRESH;
- CREATE OR REPLACE EXTERNAL TABLE ext\_sales\_data (id NUMBER, product STRING, sales NUMBER) LOCATION = @my\_s3\_stage AUTO\_REFRESH = TRUE FILE\_FORMAT = (TYPE = CSV, SKIP\_HEADER = 1, COMPRESSION = AUTO);

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

**Answer: A**

Explanation:

The 'COMPRESSION = AUTO' parameter in the file format definition allows Snowflake to automatically detect and decompress gzipped files while also reading uncompressed files. The 'SKIP HEADER = 1' parameter ensures that the header row in the CSV files is skipped.

#### NEW QUESTION # 70

A data engineer is using the Snowflake Spark connector to write data to a Snowflake table. The write operation fails consistently with the error 'net.snowflake.client.jdbc.SnowflakeSQLException: SQL execution error: String ' ' is too long (maximum is 16777216)'. Which of the following is the most likely cause and how can it be resolved using Spark Connector?

- The error indicates that a String column in the Snowflake table is not large enough to accommodate the data being written. Increase the size of the column in Snowflake using 'ALTER TABLE'.
- The Snowflake warehouse is overloaded. Increase the warehouse size to improve performance and resolve the error.
- Spark is attempting to write null values to a non-nullable column in Snowflake. Update the Spark code to handle null values appropriately or use a default value.
- One or more string fields in the Spark DataFrame exceed the maximum allowed length for string columns in Snowflake (16MB). Truncate the string fields in the Spark DataFrame before writing to Snowflake. A potential solution using Spark is `df.withColumn("column_name", substring(col("column_name"), 0, 16777216))`.
- The Snowflake Spark connector is not configured correctly. Verify the connection parameters and ensure that the correct Snowflake account and warehouse are specified.

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

**Answer: B**

Explanation:

The error message clearly states that a string is too long. While options A might seem plausible, it is better to pre-process data on spark using `0, 16777216`). This helps to ensure data conforms to the desired constraints before reaching snowflake. Option B addresses performance, but is not a root cause of the error. Option C relates to nulls but the error message is for maximum string length.

#### NEW QUESTION # 71

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