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## Snowflake SPS-C01 Valid Test Duration - SPS-C01 Practical Information

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## Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q277-Q282):

### NEW QUESTION # 277

You have a Snowpark Python application that interacts with Snowflake using a service account. You are rotating the private key associated with the service account. After updating the private key in your application's configuration, you encounter an error during

the connection attempt: 'SnowflakeSQLException: 390103 (OSAOO): Failed to connect to DB. Encountered exception while creating connection: Authentication token has expired.' What is the MOST likely cause of this error, and what steps should you take to resolve it?

- A. The Snowflake service account hasn't been granted sufficient permissions to access the required resources. Re-grant the necessary roles and privileges to the service account.
- B. The private key is in an incorrect format. Ensure that the private key is in PKCS#8 format and is properly encoded.
- C. The Snowflake cache still holds the old private key. Clear the Snowflake connection cache in the application by calling and restarting the application.
- D. The connection string contains invalid characters. Ensure the account identifier and other parameters are correctly specified.
- E. The public key associated with the new private key has not been authorized in Snowflake for the service account. Ensure that the public key is associated with the service account using `ALTER SERVICE ACCOUNT SET RSA PUBLIC KEY ='';`

**Answer: E**

Explanation:

The error 'Authentication token has expired' in the context of a service account and private key rotation strongly suggests that the Snowflake instance has not been updated with the new public key that corresponds to the updated private key. Snowflake uses the public key to verify the authenticity of the client using the private key. Option C directly addresses this: The public key must be updated in Snowflake using the 'ALTER SERVICE ACCOUNT' command to match the new private key being used by the application. Option A, although potentially helpful in other scenarios, does not address the core issue of mismatched key pairs. Options B, D, and E address other potential problems but are less likely in this specific scenario where the error occurs after a key rotation.

#### NEW QUESTION # 278

You're developing a Snowpark Python application to process log files stored in an external stage 's3\_logs'. These logs are in plain text, with each line representing a log entry. You need to filter log entries based on a specific keyword and extract timestamps from the matching lines. Which of the following approaches, using and Snowpark DataFrames, will efficiently accomplish this, avoiding unnecessary data transfer to the client?

- A. Download each log file using 'SnowflakeFile.get', read the file line by line in the client application, filter lines based on the keyword, extract timestamps, and then create a Snowpark DataFrame with the extracted timestamps.
- B. Use `pattern=' .log')` to load all log files into a Snowpark DataFrame with a single column containing the log lines. Then, filter the DataFrame using `like'` to find lines containing the keyword and extract timestamps using regular expressions in a subsequent select statement.
- C. Create a UDF that accepts a 'SnowflakeFile' object as input, reads the file line by line inside the UDF, filters lines based on the keyword, extracts timestamps, and returns a list of timestamps. Call this UDF on a Snowpark DataFrame created using `'session.read.option('PATTERN', ' .10g').format('CSV').load('@s3_logs'V.`
- D. Create an external function that accesses the files directly from S3, performs the filtering and timestamp extraction, and returns the results. Then create a Snowpark DataFrame to invoke the external function.
- E. Use `'session.read.option('PATTERN', ' .10g').format('CSV').load('@s3_logs'V.` to load all log files into a Snowpark DataFrame with a single column containing the log lines. Create a UDTF that reads a partition of the DataFrame, filters lines based on the keyword, extracts timestamps, and returns a table of timestamps.

**Answer: E**

Explanation:

Option E provides the most efficient solution. By using `'session.read.option('PATTERN', ' .10g').format('CSV').load('@s3_logs'V.` you load the data directly into a DataFrame within Snowflake. A UDTF (User-Defined Table Function) is then used to process each partition of the DataFrame, performing the filtering and timestamp extraction in parallel within the Snowflake environment, minimizing data transfer to the client. Option A is highly inefficient as it downloads all files to the client. Option B is less efficient than E because it processes all rows through a single UDF instead of distributed processing using UDTF. It also assumes all log data can be held in a single dataframe which can create memory issues Option C is similar to B and it uses UDF instead of UDTF making it less efficient. Option D introduces external dependencies to the solution.

#### NEW QUESTION # 279

You are tasked with creating a Snowpark Python stored procedure that reads data from a Snowflake table, performs a complex

data transformation using a 3rd party Python library (e.g., pandas, scikit-learn), and writes the transformed data to another Snowflake table.

The data transformation requires significant memory. You need to register this stored procedure in Snowflake. Which of the following approaches is the MOST appropriate for registering the stored procedure and managing the dependencies?

- A. Use the function to add the required Python libraries before registering the stored procedure with the '@sproc' decorator.
- B. Install the required Python libraries directly on the Snowflake compute warehouse using a SQL command.
- C. Create a Snowflake stage, upload the Python libraries as .zip files to the stage, and specify the stage path in the '@sproc' decorator's 'imports' parameter.
- **D. Create a conda environment file ('environment.yml') specifying the dependencies, upload it to a stage, and then use the '@sproc' decorator with the 'packages' argument referencing the conda environment.**
- E. Use the '@sproc' decorator without specifying any dependencies, assuming that the necessary libraries are pre-installed on the Snowflake worker nodes.

**Answer: D**

Explanation:

Using a conda environment file ('environment.yml') uploaded to a stage is the recommended and most reliable way to manage dependencies for Snowpark Python stored procedures. It ensures that all required libraries and their versions are consistently available. Option A is incorrect as libraries are not pre-installed. Option B is deprecated. Option C is possible but less manageable than a conda environment. Option E is not possible, you cannot directly install onto the warehouse.

#### NEW QUESTION # 280

You are developing a Snowpark application to process images stored in an internal stage. You have defined a Python UDF to detect objects in each image using a pre-trained model. The UDF takes the image file path as input and returns a JSON string containing the detected objects and their bounding boxes. However, you encounter "SerializationError" when running the UDF. Which of the following steps are MOST likely to resolve this issue effectively, assuming the model itself is correctly loaded and functions within the UDF environment?

- **A. Ensure that the Python environment used for UDF execution has the 'pillow' library installed by specifying it in the 'imports' parameter of the 'create\_udf' function with the corresponding packages for loading and preprocessing images.**
- B. Increase the value of the 'MAX MEMORY USAGE' parameter for the warehouse to provide more memory for UDF execution. This will prevent running out of resources when processing large images.
- C. Convert the image file path to the image file content using a Snowpark function such as 'snowpark.functions.read' before passing it to the UDF.
- D. Serialize the output of the UDF (the JSON string) using a custom serialization function that handles complex data types appropriately, and deserialize it in the Snowpark DataFrame.
- **E. Reduce the size of the images before passing them to the UDF to reduce memory consumption and serialization overhead. Resize images before ingesting them.**

**Answer: A,E**

Explanation:

The 'serializationError' often occurs when the UDF returns complex data types or large objects that cannot be serialized directly by the default serializer. Installing required libraries and decreasing payload size are both important for UDF stability. Option A addresses the potential for missing dependencies required to load and process the images within the UDF environment. Option E reduces the memory pressure on the system, mitigating potential serialization failures due to resource limitations. Option B and C are less likely as they add overhead or are generally handled by Snowpark's internal serialization. Option D while helpful in some situations is not a direct solution to serialization issues.

#### NEW QUESTION # 281

Consider the following Snowpark code snippet:

Which of the following statements are TRUE regarding the execution and performance of this code?

- A. Removing 'cached\_df=' line would significantly improve the overall performance because caching always adds overhead.
- **B. The 'filter' operation Ccol('column\_a') > 100) will be executed only once because 'cached\_df' stores the materialized result.**
- C. The 'filter' operation Ccol('column\_a') > 100) will be executed twice.
- **D. The 'count?' operation will use the cached results of and apply an additional filter on the cached data.**

- E. The 'count!' operation will trigger the materialization and caching of 'filtered\_df'.

Answer: B,D,E

Explanation:

The 'filter' operation is executed only once because materializes the intermediate result. 'count!' triggers the materialization. 'count?' uses the cached data and applies an additional filter. Removing the caching would likely degrade performance because the initial filter would need to be recomputed for 'count?'. Caching is beneficial when a DataFrame is used multiple times.

## NEW QUESTION # 282

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