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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q359-Q364):

NEW QUESTION # 359

You have a Snowflake stage containing image files. You need to write a Snowpark Python application that extracts metadata (e.g.,

image resolution, format) from these images and stores the metadata in a Snowflake table. You want to leverage a Python library, such as Pillow (PIL), for image processing. Which of the following steps are necessary to correctly and efficiently implement this?

- A. Create a Conda environment specification file ('environment.yml') that includes Pillow as a dependency. Upload the 'environment.yml' file to a Snowflake stage. Use 'session.add_packages' in the Snowpark session to load the Pillow library. Read the image files using , process them with Pillow, and then write the metadata to a Snowflake table using 'session.write_pandas()'.
- B. Download all the image files to the Snowpark client, process them locally using Pillow, and then upload the extracted metadata to Snowflake using session
- C. Create a Python UDF (User-Defined Function) that uses Pillow to extract metadata from the image files. Register the UDF with Snowflake. In a Snowpark DataFrame transformation, call the UDF for each image file to extract the metadata. Finally, write the resulting DataFrame to a Snowflake table.
- D. Use Snowflake's built-in image processing functions to extract metadata directly from the image files. This eliminates the need for external libraries like Pillow.
- E. Upload the Pillow library as a zip file to a Snowflake internal stage. Create a Snowpark stored procedure. In the stored procedure code, import the Pillow library using 'import zipfile; sys.path.append('pillow.zip'); from PIL import Image'. Read the image files using , process them with Pillow to extract metadata, and then insert the metadata into the Snowflake table.

Answer: A

Explanation:

Option B is the MOST correct. Using a Conda environment specification file ('environment.yml') and 'session.add_packages' is the recommended way to manage dependencies in Snowpark. It ensures that the correct version of Pillow is available and simplifies the deployment process. Option A is an older method and may not be as reliable. Option C involves UDFs which, while valid, can be less efficient than using native Snowpark functionalities directly. Option D is incorrect, Snowflake doesn't have built-in image processing functions. Option E again defeats the purpose of server-side processing.

NEW QUESTION # 360

A data engineering team is migrating a series of complex SQL queries into Snowpark Python to leverage vectorized UDFs and optimize performance. They currently use several Common Table Expressions (CTEs) within their SQL queries. What is the most efficient and Pythonic approach to create a Snowpark DataFrame representing the result of a complex SQL query with multiple CTEs, minimizing code redundancy and maintaining readability?

- A. Create separate temporary tables in Snowflake for each CTE using SQL, then create Snowpark DataFrames from these temporary tables using session.table(table_name)'.
- B. Utilize the method to create a single Snowpark DataFrame by executing the entire SQL query with CTEs. Then, use Snowpark's DataFrame API for further transformations if needed.
- C. Use the method to create separate Snowpark DataFrames for each CTE and then use Snowpark DataFrame joins to combine them into the final DataFrame.
- D. Re-write all CTEs using Snowpark's DataFrame API directly, avoiding the use of 'session.sql()' altogether.
- E. Concatenate the SQL statements representing each CTE and the final SELECT statement into a single long string, then use to create the DataFrame.

Answer: B

Explanation:

Option D is the most efficient. Using with the complete SQL query, including CTEs, leverages Snowflake's query optimizer to handle the CTEs efficiently. While rewriting in Snowpark DataFrame API (Option E) might eventually be desirable for full Snowpark utilization, it's a more significant undertaking. Options A and B introduce inefficiencies (string manipulation, temporary tables) or unnecessary complexity (separate DataFrames and joins). Option C is also less performant than submitting the whole query in one go.

NEW QUESTION # 361

You are building a Snowpark application using the 'snowflake-cli' to manage Snowflake connections. You have configured multiple connection profiles using 'snowflake connection add'. Which of the following Python code snippets demonstrates the most efficient and idiomatic way to create a Snowpark session using a specific connection profile named 'my_profile' defined in your 'snowflake-cli' configuration? Assume snowflake-cli is correctly configured and authenticated.

- A. □

- B.
- C.
- D.
- E.

Answer: C

Explanation:

The correct answer is D. is the most direct and idiomatic way to create a Snowpark session from a named connection profile defined in the 'snowflake-cli' configuration. This avoids manually parsing connection details or using environment variables. Option A uses , which is for loading connection parameters from a .env' file, not a snowflake-cli profile. Option B relies on environment variables, not the 'snowflake-cli' profile. Option C is overly complex, using 'subprocess' to execute the 'snowflake-cli' when Snowpark provides a direct method. Option E is incorrect because the 'profile' parameter is not a valid parameter for 'snowflake.connector.connect'

NEW QUESTION # 362

You are developing a Snowpark Python application that processes streaming data using a dynamic table. The application is experiencing frequent 'net.snowflake.client.jdbc.SnowflakeSQLException: SQL compilation error: Unsupported feature 'Streaming Dynamic Table'.' errors, even though dynamic tables are enabled in your Snowflake account and the user has the necessary privileges. Which of the following are potential causes and solutions for this error? (Select TWO)

- A. The warehouse being used for the Snowpark session is not configured with the feature enabled. Verify that the warehouse configuration includes = TRUE'.
- B. The Snowpark Python client version is outdated and does not support streaming dynamic tables. Upgrade to the latest version of the 'snowflake-snowpark- python' package.
- C. The user role lacks the 'EXECUTE MANAGED TASK' privilege. Grant this privilege to the user role executing the Snowpark application.
- D. The dynamic table definition contains unsupported SQL syntax, such as 'QUALIFY with complex window functions. Rewrite the dynamic table definition to use standard SQL constructs.
- E. The dynamic table materialization schedule is too frequent, overwhelming the Snowflake warehouse. Increase the 'WAREHOUSE_SIZE' parameter of the dynamic table definition.

Answer: A,B

Explanation:

Options A and C are correct. Streaming Dynamic Tables require specific warehouse configuration and Snowpark client version. Option A: The 'STREAMING DYNAMIC TABLES' parameter must be enabled on the warehouse. Option C: An outdated Snowpark client might not support the streaming dynamic table feature. Option B might cause a different SQL compilation error related to syntax, but not the specific 'Unsupported feature' error. Option D is related to managed tasks, not dynamic tables directly. Option E would affect performance and potential data staleness, but not the 'Unsupported feature' error. Therefore, the correct answers are A and C.

NEW QUESTION # 363

You have a Snowpark DataFrame with columns 'department' , and 'salary'. You want to identify employees in each department whose salary is within the top 20% of salaries for that department. Which of the following approaches, using window functions, is the MOST efficient way to achieve this?

- A. Use the 'ntile(5)' window function to divide each department's employees into 5 buckets based on salary, then select employees in the top bucket.
- B. Use window function to rank employees within each department by salary, then calculate the 80th percentile salary using a separate aggregation and join back to the original DataFrame to filter.
- C. Calculate the average salary per department, then filter employees whose salary is greater than 80% of the average salary.
- D. Use the window function to calculate the percentile rank of each employee's salary within their department, then filter for ranks greater than or equal to 0.8.
- E. Calculate the maximum salary per department, then filter employees whose salary is greater than or equal to 80% of the maximum salary.

Answer: D

Explanation:

Option B is the most efficient. directly calculates the percentile rank, allowing for a simple and efficient filter. Options A and C only consider the average or maximum salary and don't provide a percentile rank. Option D divides into 5 buckets (quintiles), which isn't precise enough for identifying the top 20%. Option E is less efficient as it involves multiple steps: ranking, aggregation, and joining.

NEW QUESTION # 364

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