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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q124-Q129):

NEW QUESTION # 124

You have JSON files stored in an internal stage named 'json_stage' within your Snowflake account. Each JSON file contains an array of product objects, with potentially nested structures. You need to create a Snowpark DataFrame to analyze this data, but the schema is complex and you want to avoid explicitly defining it in your Python code. Which of the following Snowpark code snippets will MOST effectively achieve this, assuming you have a Snowpark session object named 'session'?

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

Answer: A

Explanation:

Option A is the most straightforward. By default, Snowpark automatically infers the schema when reading JSON files directly from a stage without requiring additional options. Other options are useful for specific cases, like handling missing fields, but are not necessary for the basic requirement of reading JSON with schema inference. Note that E would require looping through and UNIONing results, and is far less efficient than the built in stage reader.

NEW QUESTION # 125

You have a Snowpark DataFrame named 'customer_df' containing customer data, including sensitive information like credit card numbers in a column named 'credit_card'. You need to persist this data to a Snowflake table named 'secure_customers'. What is the MOST secure and efficient way to achieve this, ensuring that the 'credit_card' column is never exposed in plain text during the persistence process and also optimized for subsequent analytical queries?

- A. Create a masking policy in Snowflake and apply it to the 'credit_card' column in the 'secure_customers' table after persisting the 'customer_df' using
- B. Use a UDF to encrypt the 'credit_card' column before persisting the DataFrame to 'secure_customers' using
- C. Persist 'customer_df' directly to 'secure_customers' using after dropping the 'credit_card' column using 'df.drop('credit_card')'.
- D. Persist the 'customer_df' to a temporary table using 'df.write.mode('overwrite').save_as_table('temp_customers')'. Then, create a new table 'secure_customers' from 'temp_customers' excluding the 'credit_card' column.
- E. Create a Snowpark DataFrame that uses a Secure View to only select the required columns excluding credit_card, and persist that to 'secure_customers' using

Answer: A

Explanation:

Applying a masking policy to the column AFTER persisting ensures that the data is protected at rest and dynamically masked based on the user's role/permissions. This approach minimizes the risk of exposing sensitive data during the transformation and persistence process. Using UDF encryption adds complexity and potential performance overhead. Dropping the column loses the data, and the temporary table approach exposes the unencrypted data temporarily.

NEW QUESTION # 126

You are using VS Code with the Snowflake extension to develop a Snowpark application. You have successfully connected to your Snowflake account and are writing a script that creates a stage and then loads data from a local file into a Snowflake table using Snowpark. However, you're encountering issues with file paths and permission errors. Which of the following strategies would best address these challenges and ensure your Snowpark application can reliably load data from local files?

- A. Modify the Snowflake account-level parameters to allow direct access to the local file system. Use relative file paths to access the local file.
- B. Use VS Code's remote development feature to run your Snowpark code directly on the Snowflake compute nodes. This will eliminate file path issues.
- C. Utilize Snowpark's 'session.file.put' to upload the local file to an internal or external stage. Then, use 'session.table.copy_into' to load data from the stage into the target table.
- D. Leverage a network share and mount it as a drive in both your local development environment and the Snowflake environment. Then, use relative file paths in your Snowpark code.
- E. Use absolute file paths in your Snowpark code when referring to local files. Ensure the Snowflake service account has read access to the local file system.

Answer: C

Explanation:

Option B is the most secure and recommended approach. Snowflake's security model restricts direct access to local file systems. Using 'session.file.put' uploads the file to a Snowflake-managed stage (either internal or external), ensuring data is transferred securely and access is controlled within the Snowflake environment. Then, 'copy_into' safely loads the staged data into the table. The other options are problematic for these reasons: Option A is incorrect because Snowflake does not directly access the local file system for security reasons. Option C is overly complex and introduces external dependencies that can be difficult to manage and secure. Option D is incorrect as Snowflake does not allow modifications to account-level parameters to grant direct local file system access. This would be a major security risk. Option E is incorrect. VS Code's remote development is for connecting to remote servers; it cannot run code on Snowflake compute nodes.

NEW QUESTION # 127

You have a Snowpark DataFrame 'products_df' with columns 'product_id', 'category', and 'price'. You want to find the top 3 most expensive products within each category. Which of the following Snowpark code snippets will accomplish this, using window functions?

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

Answer: E

Explanation:

Option D correctly partitions the data by category, orders by price in descending order (most expensive first), assigns a rank using , and then filters for ranks less than or equal to 3. Option A misses the `snowflake.snowpark.functions` import, but functionally same as D. Option B orders by price in ascending order (cheapest first). Option C does not partition by category and Option E filters where `rank < 3` instead of less than or equal to. D is most correct because of syntax and concept implementation, and will pass the code check

NEW QUESTION # 128

You are using Snowpark Python to build a machine learning pipeline. One step in the pipeline involves feature engineering using a large dataset. This feature engineering step is computationally expensive and involves several transformations. You want to optimize the performance of this step by caching intermediate results. Given the following code snippet, which of the following strategies would be MOST effective for optimizing the performance, considering the use of

- A. Cache the initial raw data DataFrame before applying any transformations.
- B. **Identify DataFrames that are reused multiple times and cache them using after the transformations that generate them**
- C. Cache each intermediate DataFrame after each individual transformation step, even if the DataFrame is only used once.
- D. Avoid using altogether because it can introduce overhead and is not always beneficial.
- E. Cache the final DataFrame only after all feature engineering steps are completed.

Answer: B

Explanation:

The most effective strategy is to cache DataFrames that are reused multiple times. Caching the initial raw data before any transformations might not be beneficial if the transformations significantly reduce the data size. Caching every intermediate DataFrame, even those used only once, adds unnecessary overhead. Avoiding entirely is not optimal, as caching can significantly improve performance when used strategically. Caching only the final DataFrame is useful if the entire feature engineering process needs to be reused, but it doesn't optimize the individual steps within the process. Caching is most useful at points where derived data sets (i.e. after heavy calculations) are used repeatedly.

NEW QUESTION # 129

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