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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q85-Q90):

NEW QUESTION # 85
You have developed a Python function that performs complex data transformation on customer data'. You want to operationalize this function as a UDTF in Snowpark to process large datasets efficiently. The function takes a customer ID and a list of transaction amounts as input and returns a table with calculated risk scores for each transaction. Which of the following code snippets correctly defines and registers this UDTF in Snowpark, ensuring proper type handling and scalability?

- A.
- B. Options B and C are the most correct.
- C.
- D.
- E.

Answer: B

Explanation:
Options B and C correctly defines the UDTF.Option B uses return_type and option C uses output_schema, both work. Option A is incorrect because a UDTF needs to be defined as a class with a 'process' method that yields rows, not as a function that returns a

list. Option D uses an incorrect way to specify ArrayType ('array') . The other options are either syntactically incorrect or do not follow the correct UDTF definition pattern.

NEW QUESTION # 86
You are developing a Snowpark application that performs feature engineering on a dataset of customer transactions. This involves calculating several complex aggregate features such as rolling averages, medians, and custom ratios. You want to optimize the performance of this feature engineering process using a Snowpark-optimized warehouse. Which of the following strategies would be MOST effective in achieving optimal performance?

- A. Materialize intermediate Snowpark DataFrames after each feature engineering step to avoid recomputation.
- B. Use the 'GROUP BY clause in Snowpark SQL to compute aggregate features, leveraging window functions where appropriate for rolling calculations.
- C. Implement all feature engineering calculations using Python User-Defined Functions (UDFs) and apply them to the Snowpark DataFrame.
- D. Use stored procedures implemented in Java within Snowpark for feature calculations.
- E. Leverage Snowpark's built-in functions and SQL expressions as much as possible for feature engineering, and rewrite performance-critical calculations as Java or Scala User-Defined Table Functions (UDTFs).

Answer: B,E

Explanation:
Using 'GROUP BY and window functions allows Snowflake to optimize the calculations within its engine. Leveraging UDTFs allows custom computations while still benefiting from Snowflake's optimization capabilities. Python UDFs are generally slower than equivalent SQL or Java/Scala UDTFs due to inter-process communication overhead. Materializing intermediate DataFrames can help in some scenarios but can also introduce overhead if not managed carefully. Java Stored procedures could be used, but UDTF would be more optimized way.

NEW QUESTION # 87
Consider the following Snowpark Python code snippet for creating a stored procedure:
What is the PRIMARY reason for explicitly defining 'input_types' and during the stored procedure registration?

- A. To ensure data type safety and schema validation during deployment and execution, preventing unexpected runtime errors due to type mismatches between the stored procedure and the calling environment.
- B. To allow Snowflake to automatically generate documentation for the stored procedure's input and output types.
- C. To enable the stored procedure to be called from other programming languages besides Python.
- D. To allow Snowsight to correctly display the stored procedure's metadata, making it easier for users to understand its functionality.
- E. To improve the performance of the stored procedure by enabling compile-time optimizations.

Answer: A

Explanation:
The primary reason for explicitly defining and 'return_type' during stored procedure registration is to enforce data type safety and schema validation. Snowflake uses these definitions to verify that the data passed to the stored procedure and the data returned by the stored procedure conform to the expected types. This helps prevent unexpected runtime errors that can occur due to type mismatches between the stored procedure's code and the calling environment. Without explicit type definitions, Snowpark would rely on runtime inference, which can be less reliable and harder to debug in production scenarios.

NEW QUESTION # 88
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. 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.
- 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. Use VS Code's remote development feature to run your Snowpark code directly on the Snowflake compute nodes. This will eliminate file path issues.
- 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 # 89
You are developing a Snowpark Python UDF to perform sentiment analysis on product reviews. The UDF takes a text review (STRING) as input and returns a sentiment score (FLOAT). You want to operationalize this UDF, ensuring type safety and performance. Which of the following approaches is MOST recommended, considering both ease of use and explicit type declaration?

- A. Casting the result of the UDF to FLOAT within the UDF definition.
- B. Using only the function name without any explicit type declaration or registration.
- C. □
- D. Using Python type hints alone: 'def sentiment_score(review: str) -> float: .... and relying on Snowpark to infer types.
- E. Using gudf(return_type=FloatType(), decorator with explicit data type registration.

Answer: C

Explanation:
Using a combination of type hints and the registration API provides the best balance of readability and explicit type safety. The @udf decorator with 'return_type' and ensures that Snowflake understands the data types, while the Python type hints improve code readability and help catch type errors during development. Option A relies on inference, which can be less explicit and potentially lead to unexpected behavior. Option B lacks the readability of Python type hints. Option D is not a valid way to register a UDF. Casting the result (Option E) doesn't define the data type beforehand and is less efficient than defining during registration.

NEW QUESTION # 90
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on every one of them, Keep reading to find out what are the specifications of these formats.

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