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## **Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q221-Q226):**

### **NEW QUESTION # 221**

You are developing a Snowpark Python application that needs to process large datasets. You want to optimize performance by leveraging user-defined functions (UDFs) to perform complex calculations in parallel across the Snowflake data warehouse. Which

of the following statements regarding Snowpark UDFs are TRUE?

- A. Snowpark UDFs automatically distribute the data and computation across multiple nodes in the Snowflake warehouse, but the distribution strategy cannot be controlled by the developer.
- B. Snowpark Python UDFs are always executed in a single process on the Snowflake warehouse, limiting their parallel processing capabilities.
- C. Snowpark UDFs can be defined as either scalar UDFs (processing one row at a time) or vectorized UDFs (processing batches of rows), offering different performance characteristics.
- D. Snowpark UDFs can be defined using either Python or Java, providing flexibility in choosing the programming language best suited for the task. The Java UDF creation method will allow faster execution speeds.
- E. To ensure optimal performance, it is recommended to always use the default Snowflake Anaconda channel for UDF dependencies, as custom channels may introduce latency.

**Answer: A,C**

Explanation:

Snowpark UDFs can be either scalar or vectorized, offering different performance tradeoffs. Vectorized UDFs are generally more efficient for large datasets as they process batches of rows. Snowpark UDFs do distribute the data and computation across multiple nodes automatically; however, the distribution strategy, while not directly controlled, is influenced by how the UDF is applied to the data and the inherent distribution of the underlying data itself. Python is the primary UDF language. Option A is false because UDFs are designed for parallel processing. Option C is not always true; custom channels might be necessary for specific dependencies. Option E is partially correct in the older releases but Python is used primarily now.

#### NEW QUESTION # 222

You have a Snowpark Python application that reads data from a Snowflake table, performs a complex transformation using a User-Defined Table Function (UDTF), and then writes the transformed data back to a new Snowflake table. The UDTF is defined as follows:

□ You need to optimize the performance of this application. Which of the following strategies would be MOST effective in reducing the execution time of the UDTF?

- A. Use a vectorized UDTF instead of a standard UDTF, processing data in batches. (Assume 'vectorized=True' is a valid parameter for 'udf'.)
- B. Cache the input DataFrame before applying the UDTF using 'df.cache()'.
- C. Reduce the number of rows in the input table by applying a filter before calling the UDTF.
- D. Increase the warehouse size to the largest available option before running the Snowpark application.
- E. Replace the UDTF with a standard User-Defined Function (UDF) as UDFs are inherently faster.

**Answer: A**

Explanation:

Vectorized UDTFs process data in batches, which can significantly improve performance compared to processing each row individually. This is especially true for complex transformations. Increasing warehouse size (A) can help but might not be as efficient as vectorization. Reducing input data (B) is always a good practice, but vectorization provides a more direct performance boost to the UDTF execution. Standard UDFs (D) are not generally faster than UDTFs, especially when dealing with table transformations. Caching (E) can help if the DataFrame is reused multiple times, but it doesn't directly optimize the UDTF's performance.

#### NEW QUESTION # 223

You have a Snowpark Python application that performs several data transformations on a DataFrame representing customer transactions. The application is experiencing performance issues, and you suspect that some transformations are unnecessarily expensive. Which of the following techniques can MOST effectively optimize the performance of your Snowpark application, specifically focusing on minimizing data movement and leveraging Snowflake's query optimization capabilities?

- A. Use User-Defined Functions (UDFs) written in Python for all transformations, regardless of their complexity.
- B. Explicitly call '.cache()' on the DataFrame after each transformation to materialize intermediate results in memory.
- C. Take the dataframe to Pandas dataframe as soon as possible in between transformations, since Pandas dataframes will be faster.
- D. Always use the largest available Snowflake warehouse size to ensure sufficient compute resources.
- E. Leverage Snowpark's built-in DataFrame transformations (e.g., '.groupBy()') to allow Snowflake to optimize the query execution plan. Avoid pulling large amounts of data into the client application for simple operations. Only call 'collect()' as the

last and final option, as this is the most costly activity of all.

#### Answer: E

Explanation:

Snowpark is designed to push down computations to Snowflake, allowing Snowflake's query optimizer to handle the execution. Using Snowpark's built-in DataFrame transformations allows Snowflake to understand the intent and optimize the query accordingly. Materializing intermediate results using `.cache()` (A) can lead to unnecessary data movement. Python UDFs (B) can be useful for complex logic but should be avoided for simple transformations as they bypass Snowflake's optimization capabilities and are generally slower than native SQL functions. Warehouse size (E) is a factor, but optimizing the query logic is more crucial. Using Pandas dataframe is also costly and performance heavy.

#### NEW QUESTION # 224

Consider the following Snowpark code snippet that defines and registers a UDF:

□ Which of the following statements about this code are TRUE?

- A. The default value of 'salutation' in the Python function will be used even when calling the UDF from SQL if the salutation parameter is omitted.
- B. The UDF is registered as a temporary UDF and will be removed when the session ends.
- C. The 'input\_types' parameter is redundant because Python's type hints are automatically used to determine the input types.
- D. The 'replace=True' argument ensures that any existing UDF with the same name ('ADD\_SALUTATION') is overwritten.
- E. The UDF is registered as a permanent UDF and stored in the specified stage for future use.

#### Answer: A,D,E

Explanation:

The correct answers are C, D, and E. makes the UDF permanent. 'replace=True' overwrites any existing UDF with the same name. Python's default parameter value IS used in the SQL call if the salutation is omitted. 'input\_typeS' are not redundant, they are required and Python's type hints are not automatically used. Option A is incorrect because 'is\_permaNent' is set to true.

#### NEW QUESTION # 225

You have a Snowpark DataFrame named `staged_orders` containing order data that needs to be inserted into the 'ORDERS' table. However, due to a recent data ingestion issue, some records in might already exist in the 'ORDERS' table based on the 'ORDER ID' column. Your goal is to insert only the new orders into the 'ORDERS' table while avoiding duplicates. Which of the following approaches, combining efficiency and correctness, is most suitable for this task? Assume 'session' and required libraries are already imported.

□

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

#### Answer: B,C

Explanation:

Options A and C are both suitable and efficient. Option A uses a 'left\_anti' join to identify records in 'staged\_orders' that do not exist in the 'ORDERS' table based on 'ORDER ID'. This is a standard and efficient way to filter out existing records using Snowpark's DataFrame operations. Option C suggests a stored procedure with a MERGE statement, which is highly efficient for upsert operations directly within Snowflake. Option B is inefficient because it collects all the order IDs from the 'ORDERS' table into the driver's memory, which could cause memory issues with large datasets. Option D is incorrect as 'on\_duplicate\_key' is not a valid parameter for `insert_into` method. Option E is using pandas dataframe to insert, which might not perform well in terms of scale.

#### NEW QUESTION # 226

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