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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q114-Q119):

NEW QUESTION # 114

You are developing a Snowpark application to analyze customer data'. You need to create a Snowpark DataFrame from a list of dictionaries, where each dictionary represents a customer with 'id', 'name', and 'city' keys. The data should be loaded efficiently. Consider these scenarios: 1 . The input data can sometimes contain missing values (e.g., a customer might not have a city specified). 2. You want to ensure optimal performance when loading the data, as the list can be very large. 3. You need the resulting DataFrame's schema to correctly infer the datatypes based on the input dictionary's values. Which of the following methods and considerations should be used to create a Snowpark DataFrame from a list of dictionaries to meet these requirements?

- A. Use 'session.createDataFrame(data)' and then explicitly cast columns with potential missing values to the correct datatype using method to ensure 'NULL' handling.
- B. Use 'session.createDataFrame(data, where 'schema' is explicitly defined to handle missing data and ensure correct data types. This improves performance over schema inference.
- C. Use 'session.createDataFrame(data, and specify the 'nullable' property for each field within the schema. Additionally, define the data type explicitly. This optimizes performance.
- D. Leverage Snowpark's optimized data loading by converting the list of dictionaries to a Pandas DataFrame first and then create a Snowpark DataFrame using 'session.createDataFrame(pandas_df)'. Pandas has optimized data loading.
- E. Use 'session.createDataFrame(data)' with default settings. Snowflake will automatically infer the schema and handle missing values as 'NULL'.

Answer: B,C

Explanation:
Options B and D are the most appropriate. Providing an explicit schema, including specifying the 'nullable' property and datatypes, offers several advantages: 1. Handles missing values: By explicitly setting 'nullable=True' in the schema for columns that might contain missing values, you ensure that Snowflake correctly handles these as 'NULC. 2. Optimizes Performance: Specifying the schema avoids Snowflake's need to infer it, which can be a performance bottleneck, especially for large datasets. Explicit datatypes also help with storage and processing efficiency. 3. Data Type Control: You can ensure the correct data types are used for each column, preventing potential issues with data type conversions later om Option A relies on automatic schema inference, which can be inefficient and may not always correctly handle missing values or data types as expected. Option C requires explicit casting after DataFrame creation which is less efficient than specifying in the schema initially. Option E can add an unneccessary overhead since converting to Pandas DataFrame and then to Snowpark DataFrame may not be optimized.

NEW QUESTION # 115
You have developed a Snowpark application that processes a large volume of customer interaction data'. The application uses a vectorized UDF to classify the sentiment of text-based interactions. Initial tests show the application is performing slowly. Which of the following strategies would be MOST effective for optimizing the performance of sentiment analysis using a vectorized UDF?

- A. Increase the number of cores allocated to the virtual warehouse.
- B. Ensure the input DataFrame is sorted by the interaction date before applying the UDF.
- C. Implement mini-batching within the vectorized UDF to further optimize processing.
- D. Optimize the vectorized UDF code itself by reducing complex computations, memory allocations, and unnecessary function calls within the UDF function (e.g., using optimized libraries, avoiding unnecessary object creation). Also consider upgrading your pandas, scikit-learn, or transformer libraries.
- E. Convert the vectorized UDF to a SQL UDTF

Answer: D

Explanation:
Optimizing the vectorized UDF code itself offers the most direct and significant performance gains for sentiment analysis. By streamlining computations, reducing memory allocations, and avoiding unnecessary function calls within the UDF's vectorized function, the processing time for each batch of data can be substantially reduced. Mini-batching (B) is already implicit with vectorization with pandas series/dataframe. Increaseing Number of cores allocated to the virtual warehouse can provide some help but it depends on other factor also. Other oprions may not have impact

NEW QUESTION # 116
You have a Snowpark DataFrame named 'transactions' containing transaction data'. You need to create a UDTF using Python to categorize transactions into 'High Value', 'Medium Value', and 'Low Value' based on the transaction amount and the customer's region. The categorization logic requires access to a dynamically updated lookup table stored in a Snowflake stage. Which approach would be MOST efficient and scalable, minimizing data transfer and maximizing Snowpark's vectorized operations?

- A. Create a vectorized UDF. Load the lookup table from the stage into the UDF's environment once during initialization. Then, process transactions in batches using pandas DataFrames within the UDF.
- B. Define a scalar UDF that queries the lookup table directly from Snowflake using a Snowflake connector. This avoids data transfer to the UDF but introduces external dependency and connection management overhead for each row.
- C. Use a UDTF with the parameter, reading the lookup table directly into the UDTF using a Snowpark DataFrame and joining it with each batch of the 'transactions DataFrame. Materialize the result to a temporary table.
- D. Use a scalar UDF, reading the lookup table from the stage for each transaction. This ensures data consistency but may incur significant overhead for each row processed.
- E. Create a vectorized UDTF that loads the lookup table into memory during the first call, and then caches it for subsequent calls. Implement a refresh mechanism using a Snowflake external function triggered by stage updates.

Answer: A

Explanation:
A vectorized UDF is the most efficient approach. It allows processing data in batches using pandas DataFrames, leveraging vectorized operations for faster execution. Loading the lookup table once during initialization and reusing it avoids repeated data transfer. While option E sounds appealing, caching mechanisms can get complex to manage for data recency. Snowflake stages are generally more suitable as temporary lookup tables rather than permanent caching solution as they're design for data loading operations.

NEW QUESTION # 117
Consider the following Snowpark Python code snippet designed to calculate the moving average of sales data'. You've identified that the code is performing poorly and suspect the window function is a bottleneck. How can you optimize this code for better performance?

- A. Ensure that the data is pre-sorted according to the ordering specified in the window function before creating the Snowpark DataFrame.
- B. Explicitly specify a range-based window frame (e.g., 'rowsBetweeri) instead of a rows-based window frame (e.g., 'rangeBetweeri) if appropriate for the calculation.
- C. Replace the 'Window.orderBy' with 'Window.partitionBV on a highly cardinal column to distribute the window calculations across multiple nodes.
- D. Rewrite the window function logic as a series of aggregation queries to improve performance on very large datasets.
- E. Use the method on the Snowpark DataFrame before applying the window function to avoid re-reading the data multiple times.

Answer: D,E

Explanation:
Caching the DataFrame allows reuse of the data and avoids recomputation, improving performance. Rewriting the logic with aggregation queries is a viable optimization. Partitioning by a cardinal column does not improve performance. Presorting the data before creating the DataFrame does not affect Window function performance. Range-based windows are not always a direct replacement and have specific use cases.

NEW QUESTION # 118
You are developing a Snowpark Python stored procedure for processing financial data'. The procedure uses the 'pandas' library for data manipulation and the 'scipy' library for statistical calculations. You want to optimize the execution of the stored procedure to leverage the available resources in your Snowflake environment. Which of the following strategies would be MOST effective in improving the performance of your stored procedure, considering the need to handle large datasets?

- A. Utilize Snowpark's vectorized UDFs to perform the calculations on the data in parallel, avoiding the need to transfer the data to Pandas.
- B. Use the 'cachetools' library within the stored procedure to cache intermediate results of calculations, reducing redundant computations.
- C. Increase the warehouse size to the largest available option (e.g., X-Large) to provide more memory and CPU resources.
- D. Convert the Snowpark DataFrame to a Pandas DataFrame within the stored procedure and perform all calculations using Pandas and SciPy.
- E. Partition the input DataFrame into smaller chunks and process each chunk sequentially using Pandas, then combine the results.

Answer: A

Explanation:
Option C is the most effective strategy for improving performance with large datasets. Snowpark's vectorized UDFs allow you to leverage Snowflake's distributed processing capabilities to perform calculations in parallel, avoiding the overhead of transferring data to Pandas. Option B would bring the entire dataset into memory on a single node which defeats the purpose of Snowflakes distributed computing. Option A might help but wouldn't fundamentally address the distribution issue. Option D is a brute-force approach and might help, but vectorized UDFs are more efficient. Option E could work but it requires complicated coding of partitioning logic.

NEW QUESTION # 119
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