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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q232-Q237):

NEW QUESTION # 232
You are tasked with creating a Snowpark stored procedure to perform complex data transformations using a Pandas DataFrame. You want to optimize the performance of the stored procedure by leveraging Snowpark's distributed execution capabilities. Consider the following code snippet:

Which of the following changes to the above code will significantly improve the performance by utilizing Snowpark's distributed execution?

- A. Use instead of 'to_pandas()'. Then, after the transformation, use 'session.write_pandas(transformed_df, 'transformed_table')'.
- B. Before calling , apply a 'limit()' function to the Snowflake Dataframe to reduce the size of the Pandas DataFrame to only a subset of the data. Then, apply the complex transformation.
- C. Replace with 'session.table('my_table')'. Perform the 'some_complex_transformation' directly using Snowpark DataFrame operations instead of converting to Pandas.
- D. Keep the code as is. Pandas DataFrames are always automatically distributed within Snowpark.
- E. Split the Pandas DataFrame into smaller chunks and process each chunk in parallel using Python's multiprocessing library before converting back to a Snowpark DataFrame. Then save it to a table.

Answer: C

Explanation:
Option B provides the most significant performance improvement. Converting the Snowpark DataFrame to a Pandas DataFrame brings all the data to the client-side (where the stored procedure is running), negating the benefits of Snowpark's distributed processing. By performing the transformations directly on the Snowpark DataFrame using Snowpark's built-in functions, the transformations are pushed down to Snowflake's compute engine, allowing for distributed execution. Option A is incorrect as Pandas DataFrames do not leverage Snowpark's distributed processing. Option C 'session.write_pandas' is deprecated, and while it could write to the table, the computations will still happen client-side and not be distributed. Option D introduces complexity and might not be as efficient as Snowpark's native distributed execution, and it does not leverage Snowpark's optimized distributed processing within the Snowflake environment. Limiting the amount of data pulled into pandas is a helpful best practice to minimize data transfer (Option E), however, its not the most efficient. Therefore, the option that would make the largest improvement would be Option B.

NEW QUESTION # 233
Consider a scenario where you have a table 'EMPLOYEES' with columns 'employee id', 'department', and 'salary'. You want to delete employees who belong to either the 'HR' or 'Finance' department and have a salary less than 60000. Which of the following Snowpark DataFrame operations correctly implements this deletion?

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

Answer: E

Explanation:
Option E is the correct solution because it uses the 'delete' function with the correct boolean logic: == 'HR') I (col('department') 'Finance')) & (col('salary') < 60000)'. This accurately translates to 'department is HR OR department is Finance AND salary is less than 60000'. Option A has incorrect syntax for 'delete()' usage. Option B is missing parenthesis for correct precedence. Option C has incorrect precedence; the 'and' will bind tighter than the or. Option D filters twice but does not correctly use the .delete' method with filter conditions.

NEW QUESTION # 234
A Snowpark application needs to process large volumes of sensor data stored in a Snowflake table named , which includes columns , 'timestamp' , and The application must calculate a rolling average of for each over a 5-minute window. The data is not perfectly ordered by 'timestamp' within each 'sensor_id'. What is the MOST efficient and accurate way to implement this rolling average calculation using Snowpark?

- A. Implementing a Python UDTF (User-Defined Table Function) that iterates through the data for each calculates the rolling average manually, and emits the results as rows.
- B. Using a Window specification with 0)' and the 'avg()' window function. (Where 'to_seconds' converts a duration to seconds)
- C. Using after applying a filter to select only the data within the 5-minute window, updating the filter for each new window.
- D. Using a Window specification with 'orderBy('timestamp')' and 'rowsBetween(Window.unboundedPreceding,

Window.currentRow)' to calculate the cumulative average, then subtracting the average from 5 minutes ago. The query will then be grouped on the sensor id.
- E. Using a Window specification with 'orderBy('timestamp')' and 'rowsBetween(Window.unboundedPreceding, Window.currentRow)' in conjunction with and a UDF to manually calculate the rolling average within each group.

Answer: B

Explanation:
Option D is the most efficient and accurate. 'partitionBy('sensor_id')' ensures that the rolling average is calculated separately for each sensor. 'orderBy('timestamp'Y orders the data within each partition by timestamp. 0)' defines the 5- minute window relative to the current row, accurately capturing all readings within that window even if they are slightly out of order. 'avg(Y then efficiently calculates the average within that window. Other options are either less efficient (e.g., UDTF iteration) or less accurate (e.g., incorrect window definitions, filtering).

NEW QUESTION # 235
Consider the following Snowpark Python code snippet designed to aggregate sales data by region:
During testing, you observe that the performance of this code is suboptimal, especially when dealing with very large 'SALES DATA tables. Using Snowflake's query history, you notice that a significant amount of time is spent on data shuffling during the operation. What optimization strategies could you employ within this Snowpark code to minimize data shuffling and improve the overall performance?

- A. store 'SALES_DATX as a clustered table using the 'REGION' column.
- B. Utilize the 'hint' function in Snowpark to provide a join hint that suggests a specific join strategy to the Snowflake query optimizer.
- C. Increase the warehouse size to provide more resources for data processing, which will inherently reduce data shuffling.
- D. Apply a more selective 'filter operation to the 'sales_df' DataFrame before the 'groupBy' operation, reducing the amount of data that needs to be shuffled.
- E. Repartition the 'sales_df DataFrame using 'repartitionBy' before the 'groupBy' operation, specifying the 'REGION' column to ensure that data for each region is co-located on the same node.

Answer: A,D,E

Explanation:
Filtering early reduces data shuffling by reducing the volume of data that needs to be grouped. Repartitioning ensures that rows with the same region are on the same node before the group by which reduces shuffling significantly. Creating the source SALES_DATA table as a clustered table with REGION as the clustering key colocates the data for each region in the same micropartitions, reducing shuffling. Increasing warehouse size will help overall performance but will not directly reduce shuffling. Hints apply to Joins, not group by operations.

NEW QUESTION # 236
A data engineering team is developing a Snowpark stored procedure to perform complex data transformations and load the results into a target table. They want to operationalize this procedure by scheduling it to run daily. Which of the following is the MOST reliable and scalable way to schedule the execution of this Snowpark stored procedure within Snowflake?

- A. Implement a Streamlit application that calls the stored procedure when a button is pressed.
- B. Use Snowflake Pipes to ingest data and trigger the stored procedure based on new data arrival.
- C. Utilize a third-party orchestration tool, such as Airflow, to schedule and monitor the execution of the stored procedure through the Snowflake connector.
- D. Use Snowflake Tasks to schedule a SQL statement that calls the stored procedure.
- E. Create a Python script that uses the Snowpark API to connect to Snowflake and execute the stored procedure, then schedule the script using a Linux cron job.

Answer: D

Explanation:
Snowflake Tasks are the recommended way to schedule stored procedures within Snowflake. They are a native Snowflake feature, providing scalability, reliability, and integration with Snowflake's monitoring and management tools. Airflow is a valid option, but adds external dependencies.

NEW QUESTION # 237
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