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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q268-Q273):

NEW QUESTION # 268
You have a Snowpark application that performs machine learning inference on a large dataset of images stored in Snowflake. The inference logic is implemented within a Python UDF that utilizes a pre-trained deep learning model. You notice that the inference process is slow and consumes a significant amount of resources. Which of the following optimization techniques would be MOST effective in improving the performance and reducing the resource consumption of this application?

- A. Ensure the virtual warehouse used by Snowpark is configured with auto-scaling to dynamically adjust the compute resources based on the workload.
- B. Persist the pre-trained deep learning model in a database table or stage and load it into the UDF's memory during each invocation to avoid repeated loading.
- C. Leverage the Snowpark Session object to manage the lifecycle and scope of the pre-trained model within the UDF, ensuring it is loaded only once per session.
- D. Use external functions instead of UDFs.
- E. Optimize the UDF code to use batch processing techniques to process multiple images in a single call, reducing the overhead of UDF invocation.

Answer: A,C,E

Explanation:
Auto-scaling helps manage resources dynamically. Batch processing reduces UDF overhead by processing multiple images in one call. Storing the model in a stage requires repeated loading. Managing the model's lifecycle within the Snowpark Session prevents reloading the model. External functions require data transfer out of Snowflake.

NEW QUESTION # 269
You have a Snowflake table 'PRODUCT CATALOG' with columns 'PRODUCT ID, 'PRODUCT NAME, and 'CATEGORY ID. You also have a table 'CATEGORY' with 'CATEGORY ID' and 'CATEGORY NAME. You need to create a Snowpark DataFrame that joins these two tables and includes only 'PRODUCT NAME and 'CATEGORY NAME. Assume a Snowpark Session object named 'session' is available. Which code snippet demonstrates creating the DataFrame using Snowpark's join functionality and column selection while using the 'table' method?

- A.
```
product_df = session.table('PRODUCT_CATALOG')
category_df = session.table('CATEGORY')
joined_df = product_df.join(category_df, product_df['CATEGORY_ID'] == category_df['CATEGORY_ID'])
result_df = joined_df.select(col('PRODUCT_NAME'), col('CATEGORY_NAME'))
```
- B.
```
product_df = session.table('PRODUCT_CATALOG')
category_df = session.table('CATEGORY')
joined_df = product_df.join(category_df, 'CATEGORY_ID')
result_df = joined_df[['PRODUCT_NAME', 'CATEGORY_NAME']]
```
- C.
```
product_df = session.table('PRODUCT_CATALOG')
category_df = session.table('CATEGORY')
joined_df = product_df.join(category_df, product_df['CATEGORY_ID'] == category_df['CATEGORY_ID'])
result_df = joined_df.select('PRODUCT_NAME', 'CATEGORY_NAME')
```
- D.
```
product_df = session.table('PRODUCT_CATALOG')
category_df = session.table('CATEGORY')
joined_df = product_df.join(category_df, product_df.col('CATEGORY_ID') == category_df.col('CATEGORY_ID'))
result_df = joined_df.select('PRODUCT_NAME', 'CATEGORY_NAME')
```
- E.
```
product_df = session.table('PRODUCT_CATALOG')
category_df = session.table('CATEGORY')
joined_df = product_df.join(category_df, product_df.PRODUCT_ID == category_df.CATEGORY_ID)
result_df = joined_df.select(product_df.PRODUCT_NAME, category_df.CATEGORY_NAME)
```

Answer: A

Explanation:

Option D correctly joins the tables using the 'join' method with a column expression specifying the join condition. It also correctly selects only the desired columns using and option A incorrectly uses 'PRODUCT_ID instead of for the join and needs 'col()' to reference columns. option B selects 'PRODUCT_NAME', 'CATEGORY_NAME' without using 'col(Y which will cause an error since the join brings duplicate column names from product_df and category_df. Option C uses Pythonic '[['PRODUCT_NAME', 'CATEGORY_NAME'I]' which only works on Pandas dataframes. option E attempts to use col() to reference the columns in the join condition which is incorrect as it is a column expression needs to use fully qualified table name for the same named column in two dataframes; moreover selection is missing col().

NEW QUESTION # 270
You have a Snowpark DataFrame representing customer transactions. This DataFrame is used in multiple downstream operations within your Snowpark application. Which of the following strategies would be MOST effective for optimizing the performance of these downstream operations by materializing the results of the 'df DataFrame, and what considerations should be made regarding resource usage?

- A. Use to materialize the DataFrame in memory. This is the most efficient approach as it minimizes disk I/O. Consider the size of the DataFrame relative to available memory to avoid memory pressure.
- B. Create a temporary table using 'df.write.save_as_table('temp_transactions', temporary-True)'. This persists the DataFrame to Snowflake storage, reducing the need for repeated computations. Monitor the size of the temporary table and its impact on storage costs.
- C. Use 'df.checkpoint()' to truncate the DataFrame lineage. This will prevent re-computation in any downstream operations. Monitor the impact on storage costs.
- D. Using a local variable to store the DataFrame. This method is most suitable for materializing the results of the DataFrame.
- E. Write the DataFrame to a persistent Snowflake table using and then read it back into a new DataFrame. This ensures data persistence but may introduce overhead due to data serialization and deserialization. Only use this method if persistence is required beyond the session.

Answer: A,B

Explanation:
Using materializes the DataFrame in memory, which is faster for repeated access but requires sufficient memory. Creating a temporary table using temporary=TrueV persists the DataFrame to Snowflake storage, reducing recomputation at the cost of storage 1/0. Choosing between these options depends on the DataFrame's size, available memory, and the frequency of access. Writing to a persistent table adds unnecessary overhead unless persistence is required. Using a local variable will only persist the result within the scope of that variable, not across multiple Snowpark operations. Checkpointing is used for lineage truncation not caching.

NEW QUESTION # 271
You have a Snowpark Python application that reads data from multiple Snowflake tables, performs complex transformations using UDFs, and writes the results to a new table. During peak hours, the application experiences performance bottlenecks. The Snowflake warehouse associated with the Snowpark session is already configured with the 'SNOWPARK OPTIMIZED warehouse type. Which of the following strategies, when implemented together, would BEST improve the application's performance?

- A. Increase the size of the Snowpark-optimized warehouse and enable auto-scaling with a minimum of 1 node and a maximum of 2 nodes.
- B. Increase the size of the Snowpark-optimized warehouse, partition the input tables based on relevant join keys, and optimize UDFs for CPU efficiency.
- C. Enable query acceleration and increase the 'MAX CONCURRENCY LEVEL' session parameter.
- D. Use the 'CACHE RESULT clause for frequently accessed data and rewrite UDFs in SQL instead of Python.
- E. Increase the size of the Snowpark-optimized warehouse, utilize vectorized UDFs where applicable, and consider using Snowpark's optimized join operations (if available).

Answer: B,E

Explanation:
Increasing the warehouse size provides more compute resources. Partitioning tables improves join performance. Optimizing UDFs reduces execution time. Utilizing vectorized UDFs allows for processing batches of data at once, reducing overhead. Snowpark's optimized join operations use efficient algorithms. Options A and C, while helpful, don't address the underlying issues as directly. Caching might help repetitive tasks, rewriting UDFs in SQL isn't always feasible or optimal if specialized logic is implemented.

Option E is most optimal because it also utilizes vectorized UDFs where possible.

NEW QUESTION # 272
You are developing a data pipeline using Snowpark and want to optimize the execution of multiple DataFrame transformations. Which of the following strategies or techniques can you employ to improve performance and reduce execution time? (Select all that apply)

- A. Eagerly evaluating all DataFrame transformations using 'df.collect()' after each transformation to materialize the intermediate results.
- B. Using to explicitly define the order in which DataFrames should be processed.
- C. Leveraging Snowflake's caching mechanisms by using the 'CACHE RESULT clause after complex or frequently used queries.
- D. Using on intermediate DataFrames that are reused multiple times in subsequent transformations.
- E. Using pushdown optimization by writing UDFs in Scala and ensuring filter operations are applied as early as possible in the data processing pipeline.

Answer: D,E

Explanation:
Options C and E are correct. Option C, pushdown optimization by ensuring filter operations are applied as early as possible, is a key optimization technique. UDFs written in Scala can also be optimized by the compiler and Snowflake's engine. Option E, using , is the correct way to cache intermediate DataFrames for reuse, preventing redundant computations. Option A is incorrect; eagerly evaluating DataFrames with 'collect()' defeats the purpose of lazy evaluation and can significantly degrade performance. Option B is not directly applicable to Snowpark DataFrame transformations; 'CACHE RESULT is primarily for SQL queries executed outside of Snowpark DataFrame operations. Option D, is not a valid function in Snowpark API.

NEW QUESTION # 273
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