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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q345-Q350):

NEW QUESTION # 345

You are using Snowpark Python to build a data pipeline. You need to version control your Snowpark application and ensure that it is compatible with different Snowflake environments (development, staging, production). Which strategies and tools would be most effective for managing the Snowpark application's code, dependencies, and deployment process?

- A. Use a Git repository to manage the Snowpark Python code, a dependency management tool like Poetry or pip to handle dependencies, and a CI/CD pipeline (e.g., using Jenkins or GitLab CI) to automate deployment to different Snowflake environments.

- B. Store the Python code directly in Snowflake stages and use Snowflake's versioning capabilities to manage different versions.
- C. Package all Snowpark code into a single ZIP file and manually upload it to each environment.
- D. Copy and paste the Python code between different Snowflake environments as needed, manually installing any required dependencies.
- E. Rely solely on Snowflake's built-in Python interpreter and avoid using any external libraries or dependencies to simplify versioning and deployment.

Answer: A

Explanation:

Using a Git repository for version control, a dependency management tool like Poetry or pip, and a CI/CD pipeline is the recommended approach for managing Snowpark applications. This allows for proper version control, dependency management, and automated deployment across different environments. The other options represent less robust and error-prone approaches.

NEW QUESTION # 346

You are tasked with optimizing a Snowpark Python stored procedure that performs complex data transformations on a DataFrame. The procedure frequently encounters out-of-memory errors when processing large datasets. Which of the following strategies could you implement to mitigate these memory issues within the stored procedure's code ? Choose all that apply.

- A. Increase the warehouse size to provide more memory resources.
- B. Use smaller data types (e.g., 'Int16' instead of 'Int64') where appropriate to minimize memory footprint.
- C. Utilize the 'repartition()' or functions to control the number of partitions in the DataFrame and potentially reduce memory consumption per partition.
- D. Leverage the 'sample()' function to work with a smaller subset of the data for testing and debugging.
- E. Implement data filtering and aggregation as early as possible in the transformation pipeline to reduce the size of the DataFrame.

Answer: B,C,E

Explanation:

Options B, C, and D directly address memory management within the stored procedure. Option B: 'repartition()' and allow you to control how the data is distributed across partitions. By adjusting the number of partitions, you can influence the amount of memory required to process each partition. Fewer, larger partitions can sometimes be problematic, whereas many smaller partitions might improve memory management but increase overhead. The best strategy depends on the specifics of the data and the transformations. Option C: Performing filtering and aggregation early reduces the volume of data that needs to be processed in subsequent steps, directly reducing memory consumption. This is a common optimization technique in data processing pipelines. Option D: Using smaller data types can significantly reduce memory footprint, especially when dealing with large datasets. Using 'Int16' when the range of values allows for it, instead of defaulting to 'Int64', can halve the memory usage for that column. Option A (increasing the warehouse size) provides more resources but doesn't address the underlying code inefficiencies that lead to memory errors. It's a valid approach, but should be considered after code-level optimizations. Option E (using 'sample()') is primarily for testing and debugging and does not solve the memory issue when processing the full dataset.

NEW QUESTION # 347

You are working with a Snowpark DataFrame called 'customer_df' that contains customer data, including a column named 'registration_date' of data type 'TIMESTAMP_NTZ'. You need to filter the DataFrame to only include customers who registered in the year 2023. Which of the following Snowpark code snippets represents the MOST efficient and correct way to accomplish this filtering, considering potential timezone issues?

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

Answer: A

Explanation:

Option C is the most efficient and accurate. It directly compares the 'registration_date' (TIMESTAMP_NTZ) to the date range

using string literals, avoiding unnecessary function calls like `Cyear`, `'to_date'`, `'to_varchar'`, that could impact performance or introduce subtle errors related to timezone conversions. Since `TIMESTAMP_NTZ` has no timezone, direct comparison is safe and optimal. Options A and E, while seemingly straightforward, involve function calls for each row, which can be slower. Option B uses `'like'` on a date converted to string, which is less efficient and can be problematic with different date formats. Option D converts the date to a `VARCHAR`, which is unnecessary and impacts performance.

NEW QUESTION # 348

You are optimizing a Snowpark application that performs complex data transformations on a large dataset. The transformation involves multiple joins and aggregations. You notice that the query execution time is excessive. Which of the following techniques would be MOST effective in improving the performance of this application, assuming you have the appropriate Snowflake role and privileges?

- A. Use the `DataFrame.explain()` method to analyze the query plan and identify potential bottlenecks. Optimize the code based on the query plan analysis, focusing on reducing data shuffling and improving join strategies.
- B. Increase the size of the Snowflake warehouse used for the computation. A larger warehouse provides more resources for parallel processing.
- C. Rewrite the Snowpark code to use more UDFs (User-Defined Functions). UDFs are always more efficient than built-in functions.
- D. Reduce the overall complexity of the query, but increase the number of queries being executed. This allows for a more incremental approach.
- E. Disable result caching for the Snowflake session. This ensures that the most up-to-date data is always used, even if it slows down performance.

Answer: A,B

Explanation:

Increasing the warehouse size provides more compute resources for parallel processing. Analyzing the query plan using `DataFrame.explain()` helps identify bottlenecks (e.g., excessive data shuffling) so you can optimize the code. UDFs are not always more efficient than built-in functions and can sometimes introduce overhead. Reducing complexity and increasing the number of queries doesn't necessarily improve performance, especially if it leads to more I/O operations. Disabling result caching can negatively impact performance, as it prevents the reuse of previously computed results.

NEW QUESTION # 349

You are working with a Snowpark DataFrame containing customer data, including a `'phone_number'` column. Some phone numbers are missing or have incorrect formats. You want to impute missing values with a default phone number `'000-000-0000'` and remove any phone numbers that do not match the pattern `'XXX-XXX-XXXX'` using Snowpark Python. Which of the following code snippets achieves this most efficiently?

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

Answer: A

Explanation:

Option E is correct. It uses `'when'` with `'isnull'` to impute missing phone numbers and `'regexp_like'` to filter out invalid formats. Options A and B are similar but less explicit. Option C omits `'lit'`, which makes the code incorrect as it won't work with Snowpark. Option D does not use `'lit'` and also `'fillna'` will give an exception if datatypes don't match.

NEW QUESTION # 350

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