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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q327-Q332):

NEW QUESTION # 327
You are developing a Snowpark application to process images stored in an internal stage. You have defined a Python UDF to detect objects in each image using a pre-trained model. The UDF takes the image file path as input and returns a JSON string containing the detected objects and their bounding boxes. However, you encounter "SerializationError' when running the UDF. Which of the following steps are MOST likely to resolve this issue effectively, assuming the model itself is correctly loaded and functions within the UDF environment?

- A. Serialize the output of the UDF (the JSON string) using a custom serialization function that handles complex data types appropriately, and deserialize it in the Snowpark DataFrame.
- B. Convert the image file path to the image file content using a Snowpark function such as 'snowpark.functions.read' before

passing it to the UDF.

- C. Ensure that the Python environment used for UDF execution has the 'pillow' library installed by specifying it in the 'imports' parameter of the 'create_udf function with the corresponding packages for loading and preprocessing images.
- D. Reduce the size of the images before passing them to the UDF to reduce memory consumption and serialization overhead. Resize images before ingesting them.
- E. Increase the value of the 'MAX MEMORY USAGE parameter for the warehouse to provide more memory for UDF execution. This will prevent running out of resources when processing large images.

Answer: C,D

Explanation:
The 'serializationError' often occurs when the UDF returns complex data types or large objects that cannot be serialized directly by the default serializer. Installing required libraries and decreasing payload size are both important for UDF stability. Option A addresses the potential for missing dependencies required to load and process the images within the UDF environment. Option E reduces the memory pressure on the system, mitigating potential serialization failures due to resource limitations. Option B and C are less likely as they add overhead or are generally handled by Snowpark's internal serialization. Option D while helpful in some situations is not a direct solution to serialization issues.

NEW QUESTION # 328
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 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.
- 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 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.
- D. 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.
- E. 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.

Answer: E

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 # 329
You are working with semi-structured data in Snowflake stored in a VARIANT column named 'payload'. You want to extract specific fields from this VARIANT column within a SQL query used to create a Snowpark DataFrame. Which of the following approaches allows you to access nested fields within the 'payload' column directly in the SQL query and create a corresponding column in your Snowpark DataFrame? Select all that apply.

- A. Use the 'payload:field1 :field2 syntax directly within the SELECT statement in the SQL query.
- B. Use the 'field1 .field2')' function within the SELECT statement in the SQL query.
- C. Extract the VARIANT data into a Pandas DataFrame and then use Pandas to access the nested fields before creating the Snowpark DataFrame.
- D. First create a temporary table containing only the extracted fields using a separate SQL query, then create a Snowpark DataFrame from that table.
- E. Use the "LATERAL FLATTEN(input payload)' function within the SQL query to unnest the VARIANT and then access the fields.

Answer: A,B,E

Explanation:
Options A, B, and D are correct. Option A utilizes the Snowflake's native dot notation (e.g., 'payload:fieldl :field2) for direct access of nested fields. Option B provides the 'GET_PATH' function, also allowing access to nested fields. Option D leverages 'LATERAL FLATTEN' to unnest the VARIANT data, enabling subsequent field access. Option C is less efficient, adding unnecessary steps, and Option E involves Pandas, which is typically not the optimal path for leveraging Snowpark's capabilities directly. Remember that 'LATERAL FLATTEN' is best when you need to process the data in a relational format after extracting it from the VARIANT.

NEW QUESTION # 330
You are developing a Snowpark application that involves creating a set of stored procedures and UDFs to process data'. To ensure proper version control and dependency management, you decide to package your Python code into a single Python Wheel file and deploy it to Snowflake. Which of the following methods are valid for deploying and utilizing this Python Wheel file within Snowflake, considering best practices for maintainability and security? (Select TWO)

- A. Upload the Python Wheel file to an external stage (e.g., AWS S3) and configure Snowflake to access the external stage, then reference the wheel file path in the USING' clause of the UDF or stored procedure.
- B. Use the Snowsight UI to upload the Python Wheel file as a dependency for the Snowflake environment, making it available for all stored procedures and UDFs within that environment.
- C. Create a Conda environment file (environment.yml) that specifies the Python Wheel file as a dependency and use this file to create a Snowflake environment. Then, associate the stored procedures and UDFs with that environment.
- D. Upload the Python Wheel file to an internal stage and directly reference it in the UDF or stored procedure definition using the 'USING' clause.
- E. Use the 'snowflake-cli' to push the Python Wheel file as a package, then add the package name to the list of packages when creating the stored procedure or UDF.

Answer: C,E

Explanation:
Options D and E are the correct answers. Creating a Conda environment file and deploying it to Snowflake (Option D) allows for explicit version control and dependency management, ensuring consistent execution across environments. You need to upload the environment.yml which contains the packages and custom wheel you need to add. Using 'snowflake-cli' to push wheel as a package (Option E) is the approach for using custom packages. These are the recommended approaches. Uploading wheel files to internal or external stages and referencing them using the 'USING' clause (Options A and B) might work, but it lacks the structured dependency management provided by Conda environments. Snowsight cannot be used to directly upload wheels for environment setup (Option C).

NEW QUESTION # 331
You are developing a Snowpark application that processes high-volume event data stored in a Snowflake table named 'raw events'. The application aggregates data by session ID. You observe significant performance degradation during peak hours. Analyzing Snowflake query history reveals that the 'session_id' column has high cardinality and data skew. Which of the following strategies, or combination of strategies, would be MOST effective in optimizing the aggregation performance?

- A. Use a 'GROUP BY' clause in the Snowpark DataFrame combined with a 'hint' to specify the ' for optimized parallel processing.
- B. Pre-aggregate the raw event data into smaller batches using a scheduled task before the main Snowpark application runs, and then aggregate the pre- aggregated data in the Snowpark application.
- C. Use a 'GROUP clause in the Snowpark DataFrame to perform the aggregation.
- D. Implement a custom UDF (User-Defined Function) in Python to perform the aggregation and then apply the 'GROUP clause in the Snowpark DataFrame.
- E. Increase the warehouse size to a larger tier (e.g., from X-Small to Small).

Answer: A,B

Explanation:
Using BUCKET_ID hint improves parallel processing and mitigates data skew in Snowpark. Pre-aggregation reduces the amount of data processed by the Snowpark application, thus improving performance. Increasing the warehouse size (A) might help but doesn't address data skew. UDFs (D) can introduce overhead if not optimized. GROUP BY alone (B) will not address the data skew problem

NEW QUESTION # 332
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