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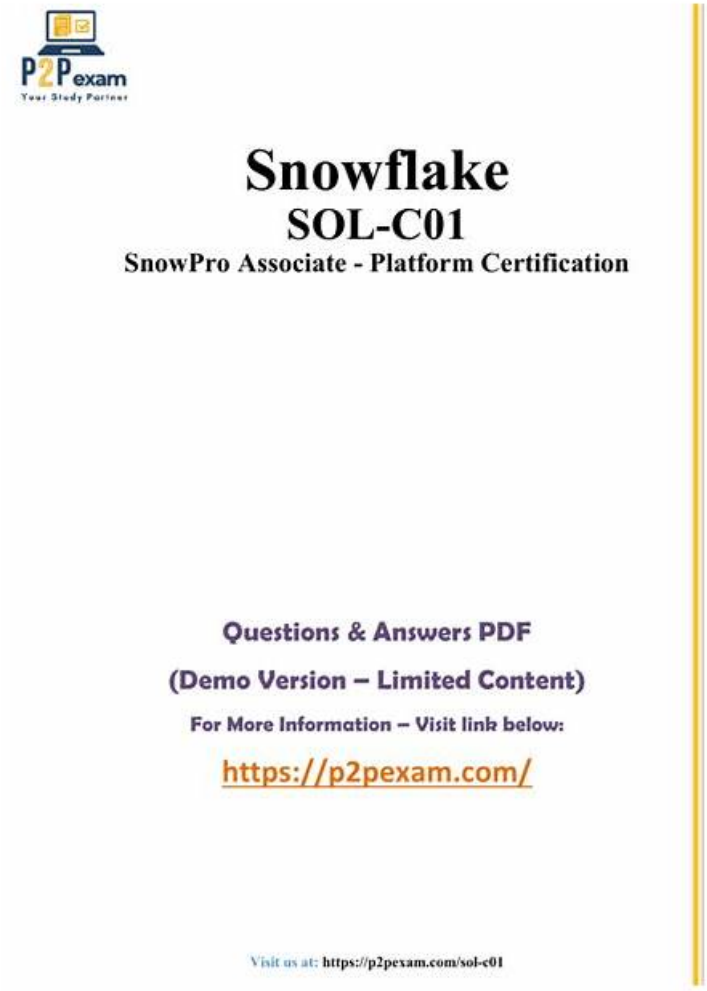

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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q42-

Q47):

NEW QUESTION # 42
You are tasked with optimizing a Snowpark application that performs complex geospatial calculations on a large dataset of location coordinates. The application is currently running on a standard Snowflake warehouse. Initial tests indicate that the application is CPU- bound. Which of the following actions would be MOST effective in improving the performance of this Snowpark application?

- A. Partitioning the location data based on latitude and longitude and leveraging Snowpark's DataFrame API for filtering data before geospatial calculations.
- B. Switching to a larger Snowflake warehouse size (e.g., from X-Small to Small) with the same warehouse type.
- C. Enable result caching and reduce the amount of data being processed
- D. Switching to a Snowpark-optimized warehouse and increasing the warehouse size.
- E. Increasing the value of parameter at the account level.

Answer: D

Explanation:
Snowpark-optimized warehouses are specifically designed for computationally intensive tasks like geospatial calculations. Switching to such a warehouse and increasing its size allows for more efficient processing of Snowpark workloads. While partitioning and filtering data (Option D) is helpful for optimizing queries generally, switching to a CPU optimized warehouse is most impactful in this CPU-bound scenario. Option A only increases resource allocation of a general warehouse type. Option C impacts general concurrency and is less targetted than moving to a CPU optimized warehouse. Result caching can help for repetitive identical queries but isn't an optimizaiton technique for CPU bound Snowpark jobs.

NEW QUESTION # 43
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. 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.
- B. Reduce the size of the images before passing them to the UDF to reduce memory consumption and serialization overhead. Resize images before ingesting them.
- C. 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.
- D. 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.
- E. 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.

Answer: B,E

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 # 44
You are tasked with optimizing a Snowpark application that uses a Python UDF to perform complex string manipulations on a large dataset. The current implementation uses a scalar UDF. You are considering converting it to a vectorized UDF. What are the key considerations and potential limitations you need to address during the conversion to ensure correctness and optimal performance? Choose all that apply:

- A. Vectorized UDFs always perform better than scalar UDFs, regardless of the complexity of the string manipulations or the

size of the dataset.

- B. The vectorized UDF's return type must be compatible with Snowpark's data types, and the UDF should return an array of the appropriate type with the same length as the input arrays.
- C. The vectorized UDF must be able to handle NULL values gracefully within the input arrays, as these can cause errors if not explicitly addressed.
- D. The input and output data types of the vectorized UDF must exactly match the corresponding column data types in the Snowpark DataFrame.
- E. The vectorized UDF should utilize libraries like NumPy or Pandas for efficient array processing, but it's important to be aware of the limitations on available Python packages in the Snowflake environment.

Answer: B,C,E

Explanation:
A, B, and C are all crucial considerations. Vectorized UDFs need to handle NULLs, leverage efficient array processing libraries (while respecting package limitations), and maintain type compatibility and consistent array lengths. D is incorrect, as the performance benefit depends on the workload. For very small datasets or simple operations, the overhead of vectorization might outweigh the benefits. E is partially true. Data type compatability is needed, however, you can cast data type to ensure compatibility.

NEW QUESTION # 45
You have two Snowpark DataFrames, 'df1' and 'df2, representing customer data'. 'df1' contains columns 'CUSTOMER ID', 'NAME, and 'EMAIL', while 'df2 contains 'CUSTOMER ID' and 'PURCHASE AMOUNT'. You need to create a new DataFrame that combines the information from both DataFrames but only includes customers who exist in BOTH 'df1 ' and 'df2 and the resulting DataFrame should have columns from both. Which of the following Snowpark DataFrame operations should you use, and what is the correct way to call it?

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

Answer: D,E

Explanation:
To include only customers present in BOTH DataFrames and include columns from both, you need to perform an INNER JOIN. Options B, C and D are incorrect: intersect, union and subtract operations work at a row level. Also, intersect , union and subtract operations expects the number of columns and datatypes to match and is not relevant to the described scenario. Option A and E are valid way to use the join operation: (A) uses the explicit condition 'df1 .CUSTOMER_ID df2.CUSTOMER_lD while (E) is the short form which specifies the column name directly. Both achieves the same inner join behavior. You can choose E as a cleaner option when only joining on column name.

NEW QUESTION # 46
You are tasked with deploying a Snowpark Python application that utilizes a third-party library, 'scikit-learn' , for machine learning tasks. The application will be executed as a Snowflake Stored Procedure. What are the necessary steps to ensure the 'scikit-learn' library is available within the Snowpark environment?

- A. Install scikit-learn on your local machine, package your snowpark code into a zip file and upload it to a stage, no extra steps are required.
- B. Create a Snowflake Anaconda channel integration, add the 'scikit-learn' package to the channel, and then reference the channel in the Snowpark session configuration.
- C. Create a Snowflake Anaconda environment using conda, include the 'scikit-learns package in the environment, and then create a Snowpark Stored Procedure that utilizes the environment via the 'packages' parameter in the CREATE PROCEDURE statement.
- D. Upload the 'scikit-learrf library as a ZIP file to a Snowflake stage, create a Python UDF that unzips the library, and then import the library within the Snowpark Stored Procedure.
- E. Include the 'scikit-learn' library directly in the Snowpark session using 'session.add_import(sklearny.

Answer: C

Explanation:
The correct approach is to create a Snowflake Anaconda environment with the required packages and then specify that environment when creating the Snowpark Stored Procedure. This ensures that the environment is available during execution. A is incorrect as session.add_import() is for local file imports. B is not the recommended and reliable approach. C is overly complex. E is incorrect as the environment in Snowflake must contain the dependency.

NEW QUESTION # 47
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