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Snowflake SPS-C01

SnowPro Specialty: Snowpark Certification Exam

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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q121-Q126):

NEW QUESTION # 121

You are tasked with building a Snowpark application that receives a DataFrame 'new customers_df' containing customer data'. Your application needs to insert this data into the 'CUSTOMERS' table in Snowflake. The 'CUSTOMERS' table has columns 'CUSTOMER ID' (INT), 'NAME' (VARCHAR), and 'JOIN DATE' (DATE). However, the DataFrame contains all columns as VARCHAR. Which of the following approaches ensures the correct data types are inserted into the 'CUSTOMERS' table, minimizing errors and maximizing performance? Assume the 'session' object is already defined and a valid connection exists.

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

Answer: A

Explanation:

Option C provides explicit casting of the VARCHAR columns to their respective data types (INT and DATE) using Snowpark functions before inserting them into the 'CUSTOMERS' table. This approach ensures data type compatibility and prevents potential errors during the insertion process. Option A, while seemingly simple, might lead to data type mismatch errors if Snowflake cannot implicitly convert the VARCHAR values to INT and DATE. Option B relies on implicit conversion, which is risky. Option D, although it converts to pandas, performs the correct transformations. However, converting to a Pandas DataFrame and using session.write_pandas is less performant and not necessary when using Snowpark. Option E, does not do type conversions and assumes the dataframe is already in required format.

NEW QUESTION # 122

You are tasked with developing a data pipeline using Snowpark that involves reading data from multiple CSV files, performing transformations using Pandas DataFrames, and then loading the transformed data into a Snowflake table. You want to optimize the process by leveraging the capabilities of Snowpark and Pandas effectively. Which of the following approaches is the MOST efficient for creating the Snowpark DataFrame from the pandas dataframe? (Select all that apply.)

- A. Read each CSV file directly into a Snowpark DataFrame using 'session.read.csv()', perform Snowpark DataFrame transformations, and then write to the Snowflake table. Avoid using Pandas DataFrames altogether.
- B. Read each CSV file into a Pandas DataFrame, perform transformations, and then create a Snowpark DataFrame from each Pandas DataFrame using Union all the Snowpark DataFrames.
- C. Read each CSV file into a Pandas DataFrame, perform transformations, and then create a temporary table with the result of 'session.write_pandas' with auto create table=True' .
- D. Read each CSV file into a Pandas DataFrame, perform transformations, concatenate all Pandas DataFrames into a single Pandas DataFrame, and then create a Snowpark DataFrame using 'session.createDataFrame()'.
- E. Read each CSV file into a Pandas DataFrame, perform transformations, and then create a temporary table with the result of 'session.write_pandas' with auto create table=False' .

Answer: A,C

Explanation:

Option C is the most efficient when the transformations can be effectively done using Snowpark itself, bypassing Pandas entirely and leveraging Snowflake's compute power directly. Option D, while using Pandas for transformation, optimizes data transfer using the optimized 'write_pandas' function. Creating Snowpark DataFrames from Pandas DataFrames and then unioning (Option B) can be less performant due to data transfer overhead. Concatenating Pandas DataFrames and then creating a Snowpark DataFrame (Option A) can be memory-intensive. Option E is incorrect, setting will throw an error if table does not exist.

NEW QUESTION # 123

You are building a Snowpark application that processes a large number of PDF files stored in a Snowflake stage. You need to extract text from each PDF file using a Python UDF and store the extracted text in a Snowflake table. You are considering different approaches for loading the PDF files into the UDE Which of the following approaches would provide the BEST performance and scalability, while minimizing network traffic and memory usage?

- A. Use the 'GET_OBJECT Snowflake SQL command to retrieve each file's contents and then pass the results as arguments into the UDF for processing. This allows use of pure SQL statements to access the files.
- B. Use the 'snowflake.snowpark.functions.read' function in Python to read the PDF files directly from the stage within the UDF. This loads the file contents into a variable available for processing.
- C. Pass the file path of each PDF file in the Snowflake stage to the UDF as a string. Within the UDF, use the 'snowflake.snowpark.files.SnowflakeFile' class to open and read the file. This will allow efficient access to the file directly from the stage.
- D. Load the PDF files into a pandas DataFrame within the Snowpark application, then pass the DataFrame to the UDF. This way the PDF can be available to all workers in the dataframe.
- E. Download all PDF files from the Snowflake stage to a local directory on the machine running the Snowpark application, then load the files from the local directory into the UDF.

Answer: C

Explanation:

Option C is the most efficient approach. 'snowflake.snowpark.files.SnowflakeFile' allows the UDF to directly access the PDF files stored in the Snowflake stage without transferring the entire file to the client. This minimizes network traffic and memory usage. Option A requires loading all PDF files into a pandas DataFrame, which can consume a significant amount of memory. Option B has issues relating to the file size and content restrictions and isn't suitable for many files. Option D involves downloading all files to a local directory, which is not scalable and introduces unnecessary overhead. Option E using 'GET OBJECT' is outside the scope of the python api.

NEW QUESTION # 124

You are tasked with processing a large number of PDF files stored in an external stage named Each PDF contains scanned receipts, and you need to extract the total amount from each receipt. You plan to use Snowpark Python, SnowflakeFile object, and an OCR (Optical Character Recognition) library for text extraction. Assuming you have already set up the connection and session, what is the most efficient and secure way to read and process these PDF files using Snowpark and SnowflakeFile, minimizing data transfer and maximizing parallelism?

- A. Create a UDF that accepts a 'SnowflakeFile' object as input, performs OCR and amount extraction inside the UDF, and then call this UDF on a Snowpark DataFrame representing the files in the stage. Use 'session.read.option('PATTERN', ' to generate the initial DataFrame.
- B. Define an external function that takes the path to a file on the stage as input, performs OCR using a cloud-based OCR service and stores the result in an intermediate database table, then create a Snowpark DataFrame to query extracted amounts. Use 'session-read-option('PATTERN', ' to generate the initial DataFrame.
- C. List all files in the stage using 'session.sql('LIST iterate through the results, create a 'SnowflakeFile' object for each file path, download each file using 'SnowflakeFile.get' into the client machine, perform OCR, extract the amount, and create a Snowpark DataFrame with the extracted amounts.
- D. Use 'session.read.option('PATTERN', ' to load the PDF files as binary data into a Snowpark DataFrame. Then, define a UDF that takes the binary data as input, converts it to a 'SnowflakeFile' object within the UDF, performs OCR, and extracts the amount.
- E. Read all PDF files into a Pandas DataFrame, then iterate through the DataFrame, downloading each file using 'SnowflakeFile.get', perform OCR, extract the amount, and finally create a Snowpark DataFrame with the extracted amounts.

Answer: A

Explanation:

Option B is the most efficient and secure approach. By creating a UDF that accepts a 'SnowflakeFile' object, the OCR processing happens within the Snowflake environment, close to the data. This minimizes data transfer out of Snowflake, improving performance and security. Using 'session-read-option('PATTERN', ' (with a dummy CSV format) is a clever way to create an initial DataFrame with file metadata for the UDF to operate on. Option A is inefficient as it transfers all PDFs to the client machine for processing. Option C requires converting binary data back to SnowflakeFile object inside UDF, which is not the intended use and might introduce complexity. Option D is highly inefficient and insecure as it involves downloading all files to the client, defeating the purpose of Snowpark. Option E, while using a cloud-based OCR service, adds complexity and dependency to external services.

NEW QUESTION # 125

You're working with a Snowpark DataFrame named 'sales_df' that contains sales transaction data'. You need to create a new DataFrame that includes only the rows where the 'order_date' is within the last 30 days. The 'order_date' column is currently stored as a string in 'YYYY-MM-DD' format. You want to create a schema and apply the schema to the dataframe. Choose the correct

options that defines the schema in below code snippets:

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

Answer: E

Explanation:

Option C correctly defines the schema with DateType for 'order_date', converts the string column to a DateType using 'to_date', and then filters the DataFrame based on the date difference. Options A, B and D do not use StringType at right places and are therefore inefficient. Option E applies to_date without any need.

NEW QUESTION # 126

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