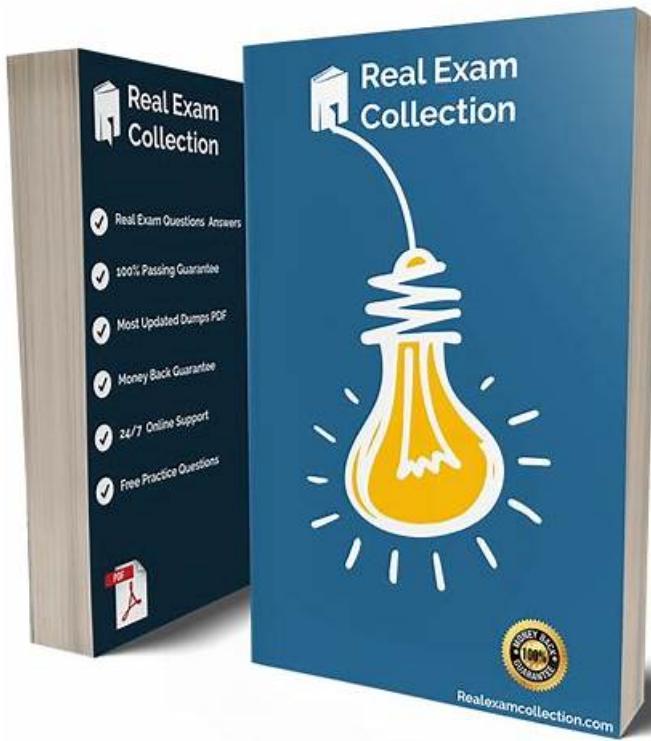


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SPS-C01 Exam Preparation: Snowflake Certified SnowPro Specialty - Snowpark & SPS-C01 Best Questions

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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q88-Q93):

NEW QUESTION # 88

You're working with Snowpark and have a DataFrame 'df' containing a column 'json_data' with JSON strings. Some of these JSON strings are invalid. You need to parse the valid JSON strings and extract a field named 'product_id' from them. Invalid JSON strings should result in a 'NULL' value for the extracted 'product_id'. Which of the following approaches is the MOST robust and efficient way to achieve this?

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

Answer: B

Explanation:

Option B is the most robust and efficient. handles invalid JSON strings gracefully by returning 'NULL'. The other options have drawbacks: Option A will throw an error if the JSON is invalid. Option C involves a UDF, which can be slower than built-in functions. Option D assumes valid json and uses the native notation which will error with invalid JSON data. Option E uses Regex which is not recommended and can have performance impact as well as not robust

NEW QUESTION # 89

You have a CSV file stored in a Snowflake stage named 'my_stage/data.csv'. The file contains customer data, including 'customer id' (INT), 'first_name' (VARCHAR), 'last_name' (VARCHAR), and 'email' (VARCHAR). You want to create a Snowpark DataFrame representing this data, explicitly defining the schema for improved type safety and performance. Which of the following code snippets is the MOST efficient and correct way to create the DataFrame with the specified schema, assuming you have a valid Snowpark session object named 'session'?

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

Answer: D

Explanation:

Option A is the most efficient and correct. It defines the schema using 'StructType' and applies it during the DataFrame creation using 'session.read.schema(schema).csv(...)''. This avoids unnecessary type casting after DataFrame creation. Option B performs type casting after DataFrame creation, which is less efficient. Option C is similar to A, and can be accepted, but defining nullable is not important. Option D uses the option argument in wrong way. Option E assumes column names are uppercase which might not be correct.

NEW QUESTION # 90

You are developing a Snowpark Python stored procedure that utilizes external Python libraries (e.g., 'requests', 'numpy'). What are the recommended steps for deploying this stored procedure to Snowflake, ensuring that all necessary dependencies are available during execution?

- A. Include the installation commands (e.g., 'pip install requests', 'pip install numpy') directly within the stored procedure's Python code. Snowflake will execute these commands during each invocation of the stored procedure.
- B. None of the above, Snowflake does not support external python libraries in stored procedures.
- C. List all required dependencies in the 'packages' parameter when creating the stored procedure. Snowflake automatically resolves and installs these dependencies from its managed Anaconda channel.
- D. Package all required dependencies into a ZIP file and upload it to a Snowflake stage. Specify the stage path in the 'imports' parameter when creating the stored procedure.
- E. Both A and B are correct methods to deploy the stored procedure.

Answer: E

Explanation:

Snowflake supports external Python libraries through two primary methods: uploading a ZIP file containing dependencies to a stage and referencing it in the 'imports' parameter, or specifying the dependencies in the 'packages' parameter. Including installation commands within the stored procedure (Option C) is not a valid approach, and Snowflake does support external libraries (Option E). Therefore, both A and B represent correct methods.

NEW QUESTION # 91

You are tasked with building a Snowpark application to perform sentiment analysis on customer reviews stored in a Snowflake table named 'CUSTOMER REVIEWS'. The application should be deployed as a UDF. The sentiment analysis is performed by a third-party Python library, 'sentiment_analyzer'. Due to security constraints, direct internet access is prohibited from within the Snowflake environment. What steps are necessary to ensure the 'sentiment_analyzer' library can be used by your Snowpark UDF?

- A. Package the 'sentiment_analyzer' library into a JAR file and upload it to a Snowflake stage, then specify the JAR in the 'imports' parameter of the UDF creation statement.
- B. Package the 'sentiment_analyzer' library into a ZIP file and upload it to a Snowflake stage, then specify the ZIP in the 'imports' parameter of the UDF creation statement.
- C. Install the 'sentiment_analyzer' library using 'conda install' directly within the Snowpark session before creating the UDF.
- D. Use the 'packages' parameter in the UDF creation statement to specify the 'sentiment_analyzer' library from Anaconda.
- E. Request Snowflake support to whitelist the 'sentiment_analyzer' library for direct download during UDF execution.

Answer: D

Explanation:

The 'packages' parameter in the UDF creation statement allows specifying Python packages from the Anaconda repository, which are then automatically made available to the UDF during execution. This is the recommended approach when direct internet access is restricted. Options A and B are incorrect because these steps would be used to include a Java library, not a Python library. Option C is incorrect because you cannot directly install packages within a Snowpark session in this way. Option D is not a standard procedure.

NEW QUESTION # 92

You've created a Snowpark Python UDF that uses a third-party library (e.g., scikit-learn) to perform machine learning inference. You need to ensure that this UDF is executed securely and efficiently in Snowflake. Which of the following approaches represent best practices for managing dependencies and securing the UDF environment? Select all that apply.

- A. Disable security features to avoid dependency conflicts.
- B. Use Snowflake's Anaconda channel to manage dependencies and specify the required packages in the UDF's registration using 'packages' argument.
- C. Utilize Snowflake's managed dependencies to handle packages installation and versioning automatically. Register the UDF to run in a secure execution environment within Snowflake.
- D. Deploy the UDF as an external function and manage dependencies using the external function's environment.
- E. Include the third-party library's code directly within the UDF's code.

Answer: B,C

Explanation:

Including the library's code directly into the UDF is not manageable and maintainable. Snowflake's Anaconda channel simplifies dependency management by providing a curated set of packages. Snowflake's managed dependencies and secure execution environment ensure that the UDF runs in a secure and isolated environment. Disabling security is unacceptable. While external functions could manage dependencies, using the built-in Anaconda integration is simpler within Snowflake. It's also more performant than the overhead of an external function call.

NEW QUESTION # 93

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