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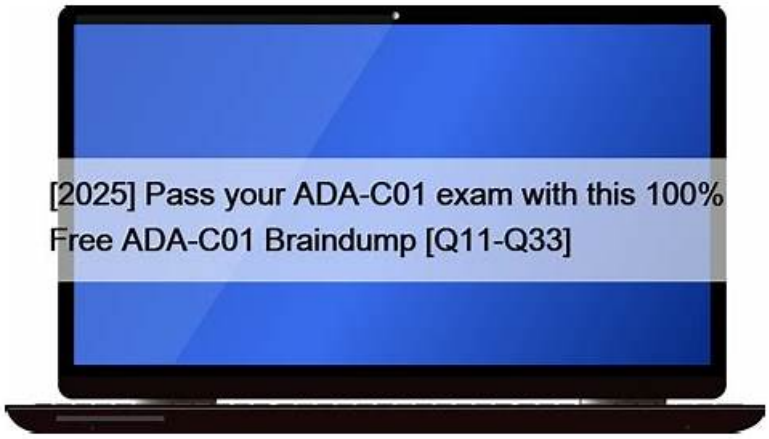

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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q119-Q124):

NEW QUESTION # 119
You are developing a Snowpark application that needs to read data from a set of CSV files stored in a Snowflake stage named 'my_stage'. The files have a header row and are comma-delimited. You want to use the Snowpark API to create a DataFrame from these files, automatically inferring the schema. Which of the following code snippets correctly achieves this?

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

Answer: E

Explanation:
Option D is the correct way to read CSV files from a stage in Snowpark with header and schema inference using .format("csv").option(...y. Option A is close, but it doesn't use the correct syntax for specifying the stage location; it expects a file

path relative to the current working directory.Option B incorrectly uses .csv()' with directly.Option C correctly passes options, but must use the load method in conjunction with format option. Option E has incorrect path specification in addition to incorrect function chain. Option D uses .load()" after setting the format and options is most appropriate.

NEW QUESTION # 120
You have a Snowpark DataFrame containing data to be loaded into a Snowflake table You want to use the 'merge' operation to update existing records and insert new records. The has a column (BOOLEAN) that indicates whether a record should be updated (TRUE) or inserted (FALSE) if it doesn't already exist. Which of the following SQL expressions correctly implement this logic within the 'merge' operation's 'WHEN MATCHED' and 'WHEN NOT MATCHED' clauses?

- A. WHEN MATCHED THEN UPDATE SET target_table.columnl = staging_df.columnl WHEN NOT MATCHED THEN INSERT (columni) VALUES (staging_df.columnl)
- B. WHEN MATCHED AND = TRUE THEN UPDATE SET columni = staging_df.columnl WHEN NOT MATCHED AND = FALSE THEN INSERT (columni) VALUES (staging_df.columnl)
- C. WHEN MATCHED AND = TRUE THEN UPDATE SET target_table.columnl = staging_df.columnl WHEN NOT MATCHED AND = FALSE THEN INSERT (columni) VALUES (staging_df.columnl)
- D. WHEN MATCHED AND THEN UPDATE SET columni = staging_df.columnl WHEN NOT MATCHED AND NOT THEN INSERT (columni) VALUES (staging_df.columnl)
- E. WHEN MATCHED THEN UPDATE SET columni = staging_df.columnl WHEN NOT MATCHED THEN INSERT (columni) VALUES (staging_df.columnl)

Answer: D

Explanation:
The correct SQL expression utilizes the column within the 'WHEN MATCHED and 'WHEN NOT MATCHED clauses to conditionally determine whether to update or insert a record. Option E correctly checks the for 'TRUE in the 'WHEN MATCHED' clause and 'FALSE' in the 'WHEN NOT MATCHED clause to conditionally trigger the 'UPDATE' and 'INSERT operations, respectively. It uses Boolean algebra directly for concise condition checking. When the update_flag is True the update is executed, when false it is inserted. This implementation allows for a single 'merge' statement to handle both update and insert operations based on a flag within the staging data.

NEW QUESTION # 121
You are working with a Snowpark DataFrame that contains product information including 'product_name' and 'description'. You need to create a new column named 'search_terms' that contains the first three words from the 'description' column, converted to lowercase. If the description has fewer than three words, the 'search_terms' column should contain all the words available. The words should be separated by a space. What is the MOST efficient way to achieve this using Snowpark?

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

Answer: C

Explanation:
Using a UDF (Option C) is a valid approach, but generally less efficient than leveraging built-in functions or existing Snowflake functions, especially for large datasets, because it involves serialization and deserialization between Python and Snowflake. Option A is not dynamic and will error on strings with fewer than three words. Option D will only correctly return the words if there are exactly three, otherwise it won 't match. E will just return the lowercased string and Snowflake UDF defined in SQL. Snowflake UDFs overhead, and are preferable for performance It is also less efficient than a UDF/Stored proc as it involves calling the Regex. Option is incorrect. Option B (UDF) is the most efficient, assuming GET FIRST THREE_WORDS is a are optimized for execution within the Snowflake environment, minimizing data transfer compared to Python UDFs in Snowpark.

NEW QUESTION # 122
You are using Snowpark in Python within a Jupyter Notebook environment to analyze sales data'. You've established a connection to Snowflake and loaded your data into a Snowpark DataFrame named 'sales ff. You need to calculate the cumulative sales for each

product category over time. The 'sales_df' DataFrame has columns 'SALE DATE' (DATE), 'PRODUCT CATEGORY' (VARCHAR), and 'SALE AMOUNT' (NUMBER). Which of the following approaches, or combination of approaches, will correctly calculate the cumulative sales while optimizing for Snowflake's performance and scalability? (Select all that apply)

- A. Use the and 'sort()' functions on the Snowpark DataFrame to order data by 'PRODUCT CATEGORY' and 'SALE DATE before calculating the cumulative sum using a UDF.
- B. Write a stored procedure in Snowflake that calculates the cumulative sales and call the stored procedure from your Snowpark application.
- C. Use session.sql() to execute a SQL query with a window function for cumulative sales and load the data into snowpark DataFrame.
- D. Use a Window function within a Snowpark DataFrame transformation to calculate the cumulative sum for each product category, ordered by 'SALE_DATE.
- E. Iterate through the rows of the 'sales_df DataFrame in the Jupyter Notebook and manually calculate the cumulative sales using Python code.

Answer: B,C,D

Explanation:
Options A, C, and E are correct. Option A utilizes Snowpark's DataFrame transformations with window functions, which are optimized for Snowflake's engine and can efficiently handle large datasets. This leverages Snowflake's parallel processing capabilities. Option C involves creating a stored procedure within Snowflake. This approach pushes the computation to the Snowflake server, potentially improving performance, especially if the cumulative sales calculation is complex. This also benefits from Snowflake's optimization capabilities. Option E executes a SQL query with a window function that's optimized. Option B is incorrect because iterating through rows in a Jupyter Notebook will be extremely slow and inefficient for large datasets. It defeats the purpose of using Snowpark for distributed data processing. Calculating cumulative sales this way doesn't leverage Snowflake's capabilities. Option D is partially correct in that it orders the data, but using a UDF for cumulative sum calculation will likely be less efficient than using native window functions within Snowflake.

NEW QUESTION # 123
You are developing a Snowpark Python application that connects to Snowflake using key pair authentication. You have the private key stored securely in an environment variable named 'SNOWFLAKE PRIVATE KEY. Which of the following code snippets correctly establishes a Snowpark session using this method, assuming all other necessary connection parameters (account, user, database, schema, warehouse) are also set as environment variables?

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

Answer: B

Explanation:
Option D is correct because it properly retrieves the private key from the environment variable, decodes the PEM format, and passes it to the connection parameters after converting the key object to a string. It uses the cryptography library to handle the private key securely, which is required for key pair authentication. The code snippet decodes the private key using cryptography library and creates a string, which then is passed to the connection parameters to create a session. Option A fails to use the cryptography library and just passes the private key directly. Option B is incorrect because it doesn't use the 'configs' method, which is the correct way to pass all connection parameters at once. Option C doesn't encode the private key properly, and does not convert to string after decoding using cryptography. Option E does convert to string, but is not secure as the private key is directly passed without decoding it using the cryptography library.

NEW QUESTION # 124
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