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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q265-Q270):

NEW QUESTION # 265
You have a Pandas DataFrame 'products df containing product information that you want to upload to a Snowflake table named 'PRODUCTS' within the schema 'SALES'. The table might or might not exist. If it doesn't, you want to create it automatically. The products df DataFrame has a column 'product_name' that contains Unicode characters. Furthermore, you need to specify the column types directly as part of the operation. Which of the following options provides the most appropriate approach to achieve this with Snowpark?

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

Answer: D

Explanation:
Option A lacks the auto-creation of the table if it doesn't exist. Option B involves defining the schema explicitly and creating the dataframe first, which increases complexity, especially if the Pandas DataFrame has many columns or data types. Option C is close but does not allow to specify schema. Option D is incorrect because quote_identifiers = false would be the invalid parameter for write_pandas. session.write_pandas(df=products_df,table_name='SALES.PRODUCTS',schema='SALES', auto_create_table=True) allows for efficient data transfer, schema management, and table creation.

NEW QUESTION # 266
A data engineering team has deployed a Snowpark Python application that reads data from a Snowflake table, performs several complex transformations using Snowpark DataFrames, and writes the results back to another Snowflake table. The team is concerned about the cost associated with the virtual warehouse used by the Snowpark application. Which of the following strategies would be MOST effective in minimizing the virtual warehouse costs while maintaining acceptable performance?

- A. Optimize the Snowpark code to minimize data shuffling and reduce the amount of data processed.
- B. Use the smallest possible virtual warehouse size (e.g., X-SMALL) and rely on Snowflake's automatic scaling capabilities to handle workload spikes.
- C. Use serverless compute service when possible to avoid managing warehouse.
- D. Implement a resource monitor to limit the credit consumption of the virtual warehouse used by the Snowpark application.
- E. Set the AUTO SUSPEND parameter of the virtual warehouse to the shortest possible duration (e.g., 60 seconds).

Answer: A,C,D

Explanation:
Implementing a resource monitor (C) provides a hard limit on credit consumption, preventing unexpected cost overruns. Optimizing the Snowpark code (D) to reduce data shuffling and processed data directly reduces resource usage. Using serverless compute (E) can reduce warehouse management overhead and potentially lower costs, especially for intermittent workloads. Setting a very short AUTO_SUSPEND (A) can lead to frequent warehouse starts, increasing costs due to warm-up time. Using the smallest warehouse size (B) might not provide acceptable performance and could lead to longer processing times, potentially increasing costs overall. Code optimization and resource monitoring are critical for cost control.

NEW QUESTION # 267
A data engineering team is developing a Snowpark stored procedure to perform complex data transformations and load the results into a target table. They want to operationalize this procedure by scheduling it to run daily. Which of the following is the MOST reliable and scalable way to schedule the execution of this Snowpark stored procedure within Snowflake?

- A. Use Snowflake Pipes to ingest data and trigger the stored procedure based on new data arrival.
- B. Utilize a third-party orchestration tool, such as Airflow, to schedule and monitor the execution of the stored procedure through the Snowflake connector.
- C. Create a Python script that uses the Snowpark API to connect to Snowflake and execute the stored procedure, then schedule the script using a Linux cron job.
- D. Implement a Streamlit application that calls the stored procedure when a button is pressed.
- E. Use Snowflake Tasks to schedule a SQL statement that calls the stored procedure.

Answer: E

Explanation:
Snowflake Tasks are the recommended way to schedule stored procedures within Snowflake. They are a native Snowflake feature, providing scalability, reliability, and integration with Snowflake's monitoring and management tools. Airflow is a valid option, but adds external dependencies.

NEW QUESTION # 268
You have a Snowpark DataFrame 'employees df representing employee data'. You need to update the 'salary' column for employees in the 'Sales' department by applying a 10% increase. Which of the following Snowpark code snippets correctly performs this update? Assume a Snowflake table named 'employees' exists and 'employees df' is correctly created from it.

- A. Option B
- B. Option C

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

Answer: B,C

Explanation:
Options C and E are correct. Snowpark does not have an 'update' method directly on DataFrames like some other Spark-based DataFrame implementations. The correct way to update the data is to use 'with_column' along with 'when' and 'otherwise' from 'snowflake.snowpark.functions' to conditionally update the 'salary' column based on the 'department'. The part is crucial to persist the changes back to the Snowflake table after the transformation. Option C imports the required functions using 'from snowflake.snowpark.functions import when, cor and Option E directly uses the dataframe to invoke function and column names. Option A and D are incorrect because Snowpark does not provide an 'update' or direct save after filtering like that for this type of update. Option B is also incorrect because the update function doesn't exist on dataframes.

NEW QUESTION # 269
You have developed a Snowpark Python application that needs to connect to an external REST API to enrich data during a transformation. The API requires authentication using an API key stored securely. Which of the following approaches is the MOST secure and recommended way to manage the API key within the Snowpark environment?

- A. Store the API key in a Snowflake Secret Object and retrieve it within the Snowpark Python code using the function.
- B. Store the API key as an environment variable within the Snowflake session.
- C. Hardcode the API key directly into the Snowpark Python code.
- D. Store the API key in a secure vault outside of Snowflake and retrieve it using a custom Snowflake external function.
- E. Encrypt the API key using a third-party encryption library and store it in a Snowflake table.

Answer: A

Explanation:
Option C is the most secure and recommended approach. Snowflake Secret Objects provide a secure way to store and manage sensitive information like API keys. The function allows you to retrieve the key within your Snowpark code without exposing it directly. Option A is highly insecure. Option B is less secure than using Secret Objects, as environment variables can be accessed more easily. Option D adds complexity and doesn't provide the same level of security as Secret Objects. Option E introduces external dependencies and requires managing another system, making it less desirable than using built-in Snowflake features.

NEW QUESTION # 270
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