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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q33-Q38):

NEW QUESTION # 33
You have a Snowpark DataFrame containing customer data'. You need to create a stored procedure that accepts the DataFrame and a list of column names as input and returns a new DataFrame containing only the specified columns. Which of the following approaches correctly implement this functionality and handles data types effectively (Select all that apply)?

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

Answer: A,C

Explanation:
Options B and E are correct. Option B correctly registers the function 'select_columnS as a stored procedure using "session.sproc.register'. Option E properly constructs the DataFrame by dynamically selecting columns by using 'df[col]'. Option A although syntactically correct may not perform as expected. Option C is incorrect because it attempts to use 'ArrayType' for a standard Python List, which is incompatible. Option D uses columns: str' which makes column as Tuple object instead of List object.

NEW QUESTION # 34
You have a Snowpark DataFrame 'df' containing customer data with columns 'customer id', 'name', 'age', and 'city'. You want to filter the DataFrame to include only customers from 'New York' who are older than 30, then extract the 'customer id' and 'name' into a Rows object, and finally print the 'name' of the first row in the Rows object. Which of the following code snippets correctly achieves this using Snowpark Python?

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

Answer: D

Explanation:
The correct answer is C. The code first filters the DataFrame based on the specified conditions. Then, it selects the 'customer_id' and 'name' columns. The 'collect()' method retrieves the data as a list of Rows objects. Finally, correctly accesses the 'name' attribute of the first row in the list. A uses dictionary access which is incorrect for Row objects, B iterates the dataframe and does not get the first row correctly, D accesses the list by index (incorrect approach) and E is only required in scala

NEW QUESTION # 35
A data engineering team is building a Snowpark pipeline to process IoT sensor data'. They want to create a UDF that uses a 3rd-party Python library (not available in Snowflake's Anaconda channel) to analyze the sensor readings. The UDF needs to be efficiently deployed and managed within Snowflake. Which of the following approaches represents the MOST robust and scalable way to register and deploy this UDF using Snowpark?

- A. Create a Docker container with the Python library, push it to Snowflake Container Services, and call this container from the UDF.
- B. Use 'session.udf.register' and directly include the library code as a string within the UDF definition. This avoids external dependencies.
- C. Create a virtual environment with the necessary Python library, zip it, upload the zip file to a Snowflake stage, and use to register the UDF. Reference the stage location and virtual environment in the register call.
- D. Use 'session.add_packages' to add the specific Python package directly from the Snowflake Anaconda channel (even if the required version isn't available) and then use 'session.udf.register' for the UDF definition.
- E. Use 'functions.udf and directly embed the package code within the UDF definition. This approach handles package management automatically.

Answer: C

Explanation:
Option B is the correct answer. It describes the best practice for deploying UDFs with external Python libraries in Snowflake. Creating a virtual environment, zipping it, uploading it to a stage, and referencing it during UDF registration ensures proper dependency management and avoids conflicts. Option A is problematic because embedding the library directly makes the UDF definition very large and unmanageable. Option C will not work if the required version isn't available. Option D is incorrect because functions.udf relies on packages available in the Snowflake Anaconda channel and doesn't manage custom packages. While Option E could work, its overly complex for this specific scenario compared to utilizing Snowpark virtual enviornment and stage management. Option B is more efficient and streamlined.

NEW QUESTION # 36

Consider the following Snowpark code snippet that aims to calculate the rank of each employee based on their salary within their respective department. What are potential issues with this code, and how can you improve it? (Select all that apply.)

- A. The 'rank()' function will produce dense ranks, which might be undesirable if there are ties in salary. Use for contiguous ranks instead.
- B. The code is correct and will produce the desired output without any issues.
- C. It is missing the 'col' function call in the orderBy clause. It should be 'orderBy(sf.col("salary").desc())'.
- D. The code does not handle potential null values in the salary column. Consider using or before calculating the rank.
- E. There may be performance issues if the employee table is very large. Consider adding a filter to the DataFrame before applying the window function.

Answer: C,D,E

Explanation:
Options B, D, and E are correct. B: The 'orderBy' clause needs the 'col' function call in D: Null values in the salary column can lead to unexpected ranking results, and should be addressed beforehand. E: Applying window functions on very large DataFrames can be resource-intensive, so filtering data beforehand can improve performance. Option A is incorrect because there are indeed issues with the code. Option C: 'rank()' function does not produce dense ranks. function is used for contiguous ranks.

NEW QUESTION # 37
You are working with a Snowpark DataFrame named 'sales df' containing sales data including columns 'product id', 'sale date', and 'sale_amount'. You want to create a new DataFrame 'filtered df that only includes rows where the 'product id' is present in a list of approved product IDs and the 'sale_amount' is greater than the average sale amount. You have already calculated the average sale amount and stored it in a variable named 'avg_sale amount'. Which of the following code snippets correctly achieves this?

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

Answer: B,C,E

Explanation:
Options B, C, and E are correct. Option B uses chained .filter() methods which is valid. Option C uses chained .where() methods which is functionally equivalent to filter. Option E correctly applies both conditions within the filter. Option A is incorrect because the '&' operator has different precedence compared to the bitwise & operator and can cause issues with Snowpark type checking; also, it does not have parentheses for the individual condition. Option D is incorrect because .contains() is typically for checking if a string contains a substring or if an array contains a specific value, not for checking if a value is in a list.

NEW QUESTION # 38
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