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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q166-Q171):

NEW QUESTION # 166

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: C

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 # 167

You have a Snowpark DataFrame 'df' containing customer data with columns 'customer_id', 'signup_date' (TIMESTAMP NTZ), and 'country'. You need to create a new DataFrame that calculates the number of days since each customer signed up, but only for customers in 'USA' and 'Canada'. Furthermore, you want to filter out records where the signup was more than 365 days ago. Which of the following Snowpark code snippets will achieve this most efficiently?

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

Answer: C

Explanation:

Option E is the most efficient. It first filters the DataFrame by country using 'isin', which is optimized for multiple values. Then, it calculates 'days_since_signup' using 'datediff' and finally filters based on the number of days. Option A is correct but not as efficient as using 'isin'. Option B calculates 'days_since_signup' before filtering, which is less efficient. Option C uses 'to_number' which would result in the difference being represented in milliseconds and would require further conversion. Also using 'to_number' may lead to data loss. Option D has incorrect operator precedence in the 'where' clause, making it functionally wrong.

NEW QUESTION # 168

You are working with a Snowpark DataFrame 'df' that contains user profile data'. A column named 'profile' stores user information as JSON, including 'age' (which can be a number or a string), 'is active' (which can be a boolean or a string 'true'/'false'), and registration date' (stored as a string in 'YYYY-MM-DD' format). You need to perform the following data transformations: 1. Cast the 'age' to an integer, defaulting to -1 if casting fails. 2. Cast 'is active' to a boolean, treating 'true' (case-insensitive) as true and any other string as false. 3. Convert 'registration_date' to a date object. Select the code snippets (multiple answers can be correct) that correctly accomplish these tasks using Snowpark DataFrame transformations.

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

Answer: A,C

Explanation:

Options A and D are both correct. Option A : Uses lit(-1 for handling age casting failures. This is good because it can handle errors and provides null safe casting. try to cast to a number, and if it fails, return null, then coalesce use -1 instead. Option A : Correctly converts to a boolean using 'when' and 'lower' for case-insensitive matching. If it's the string 'true', returns 'true'. Otherwise, returns 'false'. Option A : Uses 'to_date' for 'registration_date' since the column stores date. Option D is not supported. It should be 'is_number' for the age field. Option D : Correctly converts to a boolean using 'when' and 'lower' for case-insensitive matching. If it's the string 'true', returns 'true'. Otherwise, returns 'false'. Option D : Uses 'to_date' for 'registration_date' since the column stores date. Option B 'try_cast' does not exist in Snowpark. Option C 'Trye' is never equal to 'True'. Option E: The 'registration_date' needs to

be converted with 'to date' and not 'to_timestamp'.

NEW QUESTION # 169

A Snowpark Python application is experiencing significant performance degradation when processing a large dataset (100GB+) stored in Snowflake. The application performs a complex series of transformations, including window functions and joins with smaller lookup tables. You suspect data skew is contributing to the issue. Which of the following strategies would be MOST effective in mitigating the impact of data skew and improving performance?

- A. Disable query result caching to ensure fresh data is always used.
- B. Increase the warehouse size to a larger instance (e.g., from X-Small to Large).
- C. Cache the smaller lookup tables using 'session.createDataFrame' and broadcast them to all worker nodes.
- **D. Implement salting or pre-partitioning of the data based on a hash of the skewed column before performing the joins and window functions.**
- E. Convert the Snowpark DataFrame to a Pandas DataFrame before performing transformations.

Answer: D

Explanation:

Salting or pre-partitioning addresses data skew directly by distributing the skewed values more evenly across partitions. Increasing warehouse size (A) might help to some extent but doesn't solve the underlying skew issue. Broadcasting small tables (C) is a good optimization, but it's less effective if the larger dataset is skewed. Disabling query result caching (D) is irrelevant to data skew. Converting to Pandas (E) will likely make performance worse for large datasets due to data transfer overhead and limitations of single-node processing.

NEW QUESTION # 170

You have a Snowpark Python application that performs several data transformations on a DataFrame representing customer transactions. The application is experiencing performance issues, and you suspect that some transformations are unnecessarily expensive. Which of the following techniques can MOST effectively optimize the performance of your Snowpark application, specifically focusing on minimizing data movement and leveraging Snowflake's query optimization capabilities?

- A. Use User-Defined Functions (UDFs) written in Python for all transformations, regardless of their complexity.
- B. Take the dataframe to Pandas dataframe as soon as possible in between transformations, since Pandas dataframes will be faster.
- **C. Leverage Snowpark's built-in DataFrame transformations (e.g., .groupBy()) to allow Snowflake to optimize the query execution plan. Avoid pulling large amounts of data into the client application for simple operations. Only call 'collect()' as the last and final option, as this is the most costly activity of all.**
- D. Always use the largest available Snowflake warehouse size to ensure sufficient compute resources.
- E. Explicitly call .cache() on the DataFrame after each transformation to materialize intermediate results in memory.

Answer: C

Explanation:

Snowpark is designed to push down computations to Snowflake, allowing Snowflake's query optimizer to handle the execution. Using Snowpark's built-in DataFrame transformations allows Snowflake to understand the intent and optimize the query accordingly. Materializing intermediate results using .cache() (A) can lead to unnecessary data movement. Python UDFs (B) can be useful for complex logic but should be avoided for simple transformations as they bypass Snowflake's optimization capabilities and are generally slower than native SQL functions. Warehouse size (E) is a factor, but optimizing the query logic is more crucial. Using Pandas dataframe is also costly and performance heavy.

NEW QUESTION # 171

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