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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q36-Q41):

NEW QUESTION # 36

You are tasked with creating a UDTF in Snowflake to perform a complex data transformation that requires external libraries (e.g., for advanced string manipulation or data analysis). The transformation involves cleaning and standardizing addresses from a table containing millions of customer records. Which language and approach would be most appropriate and efficient for this scenario?

- A. JavaScript UDF utilizing regular expressions for simple string replacements.
- B. Scala UDTF leveraging sbt to manage dependencies to achieve address parsing and standardization.
- C. SQL UDF with nested CASE statements for address standardization.
- D. Java UDTF with necessary JAR files uploaded to Snowflake's internal stage, leveraging external libraries for address parsing and standardization.
- E. Python UDTF leveraging Anaconda packages (e.g., 'addressparser' , 'pandas') for advanced address parsing and standardization, utilizing Snowflake's optimized execution environment for Python.

Answer: E

Explanation:

Python UDTFs with Anaconda packages offer the best balance of flexibility, performance, and ease of use for complex data transformations requiring external libraries. Snowflake's integration with Anaconda allows for the seamless use of popular data science and engineering libraries, making Python UDTFs ideal for tasks like address standardization. Java can be useful, but the overhead of JAR management and potentially less efficient integration with Snowflake's execution engine can be a disadvantage. SQL and JavaScript offer limited expressiveness for complex tasks requiring external libraries. While Scala is powerful, it can present a steeper learning curve and may not be as widely adopted as Python within the Snowflake ecosystem for UDTFs.

NEW QUESTION # 37

You are tasked with creating a JavaScript stored procedure in Snowflake to perform a complex data masking operation on sensitive data within a table. The masking logic involves applying different masking rules based on the data type and the column name. Which approach would be the MOST secure and maintainable for storing and managing these masking rules? Assume performance is not your primary concern but code reuse and maintainability is the most important thing.

- A. Defining the masking rules as JSON objects within the stored procedure code.
- B. Using external stages and pulling the masking rules from a configuration file during stored procedure execution.
- C. Storing masking logic in Javascript UDFs and calling these UDFs dynamically within the stored procedure based on column names and datatype
- D. Storing the masking rules in a separate Snowflake table and querying them within the stored procedure.
- E. Hardcoding the masking rules directly within the JavaScript stored procedure.

Answer: C,D

Explanation:

Options B and E are the most secure and maintainable. Storing the masking rules in a separate Snowflake table allows for easy modification and version control without altering the stored procedure code. Javascript UDFs make the logic reusable, maintainable and dynamic. Hardcoding the rules (A) makes maintenance difficult. JSON objects within code (C) are an improvement but are still embedded within the code. Using external stages (D) introduces dependencies and potential security risks if not managed carefully.

NEW QUESTION # 38

A financial institution needs to implement both dynamic data masking and column-level security on the 'CUSTOMER DATA' table, which contains sensitive information like 'CREDIT CARD NUMBER' and 'SSN'. The requirement is: all users except those in the 'DATA ADMIN' role should see masked credit card numbers (last 4 digits unmasked) and masked SSNs. Users in 'DATA ADMIN' should see the original data'. Which of the following combination of policies and grants will achieve this?

- A. Create two masking policies: one for 'CREDIT CARD NUMBER' and another for 'SSN'. Grant APPLY MASKING POLICY privilege to the 'DATA ADMIN' role and then apply masking policies to the appropriate columns. Grant SELECT privilege on the table to PUBLIC.
- B. Create two masking policies: one for 'CREDIT CARD NUMBER' and another for 'SSN'. Grant APPLY MASKING POLICY privilege to the 'DATA ADMIN' role. Do not grant any SELECT privileges on the table.
- C. Create two masking policies: one for 'CREDIT CARD NUMBER' and another for 'SSN'. Grant APPLY MASKING POLICY privilege to the 'DATA ADMIN' role. Apply masking policies to the appropriate columns. Grant SELECT privilege on the table to PUBLIC
- D. Create two masking policies: one for 'CREDIT CARD NUMBER' and another for 'SSN' using the 'CASE' statement to apply masking logic based on the current_role(). Apply masking policies to the appropriate columns. Grant SELECT privilege on the table to PUBLIC.
- E. Create two masking policies: one for 'CREDIT CARD NUMBER' and another for 'SSN'. Apply masking policies to the appropriate columns. Create a custom role with the 'APPLY MASKING POLICY' privilege, grant this custom role to the

'DATA_ADMIN' role. Grant SELECT privilege on the table to PUBLIC.

Answer: D

Explanation:

Option E correctly implements both dynamic data masking and column-level security. The 'CASE' statement within the masking policy allows for different masking logic based on the current role. Granting SELECT to PUBLIC allows all users access to the table, while the masking policy controls what they see. Options A, B, C and D fail to implement either correct masking logic within policies or proper grant structure.

NEW QUESTION # 39

A data engineering team has created a Snowflake Listing to share their company's sales data'. They want to allow consumers to access the Listing programmatically. The consumers need to know when new versions of the Listing are available. What is the MOST efficient method for consumers to be notified about new Listing versions without continuously polling Snowflake?

- A. The data consumer implements a custom webhook endpoint that the data provider calls whenever a new Listing version is published. The data provider will need to maintain a list of all consumers.
- B. **Snowflake automatically notifies consumers via an event notification service (e.g., AWS SNS, Azure Event Grid) integrated with the Data Marketplace when a new version is available.**
- C. The consumer sets up a scheduled task in Snowflake to periodically query the 'SHOW VERSIONS' command for the Listing.
- D. The data provider manually sends email notifications to each consumer whenever a new version is created.

Answer: B

Explanation:

Snowflake's integration with event notification services like AWS SNS or Azure Event Grid provides the most efficient and scalable way to notify consumers about new Listing versions. This eliminates the need for manual intervention or continuous polling, making it a push-based system. Snowflake automatically handles the notification process based on preconfigured event triggers.

NEW QUESTION # 40

You are tasked with building a User-Defined Aggregate Function (UDAF) in Snowflake to calculate the weighted average of product prices. The weight is determined by the quantity sold for each product. You have the following table: 'SALES (product_id INTEGER, price quantity INTEGER)'. Which of the following UDAF definitions would correctly calculate the weighted average?

- A. Option B
- B. Option A
- C. Option E
- D. Option C
- E. **Option D**

Answer: E

Explanation:

Option D is the correct implementation of a UDAF for calculating the weighted average. It uses a struct to store the sum of (price quantity) and the sum of quantities. It correctly initializes, accumulates, merges, and finalizes the aggregate result. Other options have logical and syntactic errors making it fail. Option A is wrong as it does not provide aggregate function. Option B defines SQL UDF as aggregate functions are called when there are multiple rows, and a single result is desired from those rows, making this definition also wrong. Option C does not account for sum of quantities and uses an unprovided count. Option E also does not account for quantities.

NEW QUESTION # 41

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standing in front of the Lincoln Memorial, gave DEA-C02 Reliable Test Testking one of the most stirring speeches in history when he delivered his "I Have a Dream" speech. Before Microsoft, Adam was involved in a number of DEA-C02 of successful start-ups focused on vulnerability scanning, privacy, and program analysis.

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