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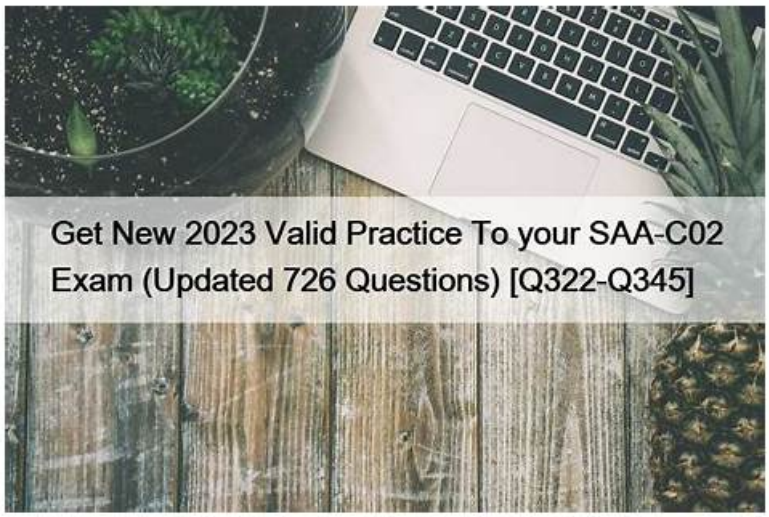

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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q73-Q78):

NEW QUESTION # 73
You are developing a JavaScript stored procedure in Snowflake using Snowpark to transform data'. The procedure needs to efficiently calculate the sum of 'amount' for each 'customer_id' in a large table named 'orders'. You want to avoid transferring large amounts of data to the client and utilize Snowpark's pushdown capabilities. Which of the following JavaScript code snippets is the MOST efficient and correct way to achieve this? Assume 'snowflake' binding is available.

- A.
- B.

- C.
- D.
- E.

Answer: E

Explanation:
Option B is the most efficient because it leverages Snowpark's 'groupBy' and 'sum' functions, pushing the aggregation computation to the Snowflake engine. This avoids transferring all the raw data to the client-side JavaScript environment, minimizing network traffic and improving performance. Options A, C and D are not leveraging snowpark dataframe. E uses deprecated methods

NEW QUESTION # 74
You are planning to monetize a dataset on the Snowflake Marketplace. You want to provide potential customers with sample data to evaluate before they purchase a full subscription. Which of the following strategies are valid and recommended for offering a free sample of your data within the Snowflake Marketplace? (Select all that apply)

- A. Upload a sample CSV file to a publicly accessible S3 bucket and provide the link in the Marketplace listing description. Consumers can download and load this data into their own Snowflake account for evaluation.
- B. Offer a 'free trial' subscription on the primary listing that automatically expires after a set period (e.g., 7 days), allowing customers to access the full dataset during the trial period. You will need to write custom code to manage trial expiration and data access restrictions based on the trial status.
- C. Provide the consumer with the script to create a database link to your data, allowing them read-only access to a pre-defined sample table, and then revoke the access after a set period.
- D. Create a separate share containing a subset (e.g., a smaller number of rows or columns) of the full dataset and offer this share as a free trial listing on the Marketplace.
- E. Create a view that filters the dataset based on a sampling algorithm (e.g., 'SAMPLE ROW' clause) and share the view through the Marketplace.

Answer: D,E

Explanation:
Option A is valid: Creating a separate share with a subset of the data is a common and secure way to offer a free sample. Option C is valid: sharing a view filtered by a sampling algorithm offers a representative sample without requiring manual data management. Option B is less ideal because managing trial expiration and access controls requires custom coding and increases complexity. Offering consumers a database link (Option D) is a valid concept but less secure than using Snowflake's native sharing mechanisms for trial access. Option E is less integrated with the Marketplace experience; the consumer must leave Snowflake to access the sample data, and there is no tracking of who is accessing the sample.

NEW QUESTION # 75
You need to implement a data masking solution in Snowflake for a table 'CUSTOMER DATA' containing PII. The requirement is to mask the email address based on the user's role: if the user is in 'ANALYST ROLE , the email address should be partially masked (e.g., 'a @example.com'), otherwise, it should be fully masked (e.g., @ .com'). Which of the following masking policy definitions and subsequent actions will correctly implement this?

- A. Create a masking policy 'email_mask' using 'REGEXP_REPLACE to replace the first part of the email with asterisks if the current role is not 'ANALYST_ROLE' , otherwise use 'LEFT and ' REGEXP_REPLACE to mask only part of the username. Apply this policy to the 'EMAIL ' column of 'CUSTOMER DATA'.
- B. Create a masking policy 'email_mask' using a 'CASE' statement that checks 'CURRENT_ROLE()'. If the role is 'ANALYST_ROLE, partially mask using 'LEFT and 'REGEXP REPLACE; otherwise, return original value. Apply this policy to the 'EMAIL' column of 'CUSTOMER DATA'.
- C. Create a masking policy 'email_mask' that always fully masks the email address. Grant the 'UNMASK' privilege on the 'EMAIL' column to the 'ANALYST ROLE
- D. Create a masking policy 'email_mask' using a 'CASE' statement that checks 'CURRENT_ROLE()'. If the role is 'ANALYST_ROLE, partially mask using 'LEFT and 'REGEXP REPLACE; otherwise, fully mask using 'REGEXP REPLACE. Apply this policy to the 'EMAIL' column of 'CUSTOMER DATA'.
- E. Create two separate masking policies, one for 'ANALYST_ROLE' and one for all other roles. Apply both policies to the 'EMAIL' column of 'CUSTOMER DATA'. Grant the 'APPLY MASKING POLICY privilege on the 'CUSTOMER DATA' table to the 'ANALYST_ROLE.

Answer: D

Explanation:
Option C uses a single masking policy with a 'CASE statement to dynamically apply different masking logic based on the user's role. This is the most efficient and maintainable approach. Option A is conceptually correct but lacks the explicit use of 'CASE' which is preferred for role-based logic within masking policies. Option B is less efficient. Option D uses UNMASK which defeats masking. Option E does not mask for non-analyst role.

NEW QUESTION # 76
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. Using external stages and pulling the masking rules from a configuration file during stored procedure execution.
- B. Storing the masking rules in a separate Snowflake table and querying them within the stored procedure.
- C. Hardcoding the masking rules directly within the JavaScript stored procedure.
- D. Storing masking logic in Javascript UDFs and calling these UDFs dynamically within the stored procedure based on column names and datatype
- E. Defining the masking rules as JSON objects within the stored procedure code.

Answer: B,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 # 77
You are developing a Snowpark Python stored procedure that performs complex data transformations on a large dataset stored in a Snowflake table named 'RAW SALES'. The procedure needs to efficiently handle data skew and leverage Snowflake's distributed processing capabilities. You have the following code snippet:
Which of the following strategies would be MOST effective to optimize the performance of this Snowpark stored procedure, specifically addressing potential data skew in the 'product id' column, assuming 'product_id' is known to cause uneven data distribution across Snowflake's micro-partitions?

- A. Utilize Snowflake's automatic clustering on the 'TRANSFORMED_SALES table by specifying 'CLUSTER BY when creating or altering the table to ensure future data is efficiently accessed.
- B. Combine salting with repartitioning by adding a random number to the 'product_id' before repartitioning, then removing the salt after the transformation to break up the skew. Then, enable automatic clustering on the 'TRANSFORMED SALES' table.
- C. Use the 'pandas' API within the Snowpark stored procedure to perform the transformation, as 'pandas' automatically optimizes for data skew.
- D. Implement a custom partitioning strategy using before the transformation logic to redistribute data evenly across the cluster.
- E. Increase the warehouse size significantly to compensate for the data skew and improve overall processing speed without modifying the partitioning strategy.

Answer: B

Explanation:
Option E is the most effective solution. Salting breaks up data skew before repartitioning. Automatic clustering on the transformed table optimizes future queries. Repartitioning redistributes the data across Snowflake's processing nodes, and Automatic Clustering will help in maintaining performance as the data changes in TRANSFORMED_SALES table over time. Option A, without salting, may still be inefficient due to the initial skew. Option B improves query performance but doesn't address the initial transformation skew. Option C is incorrect because 'pandas' in Snowpark does not automatically handle data skew at the Snowflake level. Option D is a costly workaround that doesn't fundamentally solve the skew problem.

NEW QUESTION # 78
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