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Snowflake DEA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Security: The Security topic of the DEA-C01 test covers the principles of Snowflake security, including the management of system roles and data governance. It measures the ability to secure data and ensure compliance with policies, crucial for maintaining secure data environments for Snowflake Data Engineers and Software Engineers.
Topic 2	<ul style="list-style-type: none">• Data Movement: Snowflake Data Engineers and Software Engineers are assessed on their proficiency to load, ingest, and troubleshoot data in Snowflake. It evaluates skills in building continuous data pipelines, configuring connectors, and designing data sharing solutions.
Topic 3	<ul style="list-style-type: none">• Storage and Data Protection: The topic tests the implementation of data recovery features and the understanding of Snowflake's Time Travel and micro-partitions. Engineers are evaluated on their ability to create new environments through cloning and ensure data protection, highlighting essential skills for maintaining Snowflake data integrity and accessibility.
Topic 4	<ul style="list-style-type: none">• Data Transformation: The SnowPro Advanced: Data Engineer exam evaluates skills in using User-Defined Functions (UDFs), external functions, and stored procedures. It assesses the ability to handle semi-structured data and utilize Snowpark for transformations. This section ensures Snowflake engineers can effectively transform data within Snowflake environments, critical for data manipulation tasks.
Topic 5	<ul style="list-style-type: none">• Performance Optimization: This topic assesses the ability to optimize and troubleshoot underperforming queries in Snowflake. Candidates must demonstrate knowledge in configuring optimal solutions, utilizing caching, and monitoring data pipelines. It focuses on ensuring engineers can enhance performance based on specific scenarios, crucial for Snowflake Data Engineers and Software Engineers.

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Snowflake SnowPro Advanced: Data Engineer Certification Exam Sample Questions (Q25-Q30):

NEW QUESTION # 25

A retail company has a customer data hub in an Amazon S3 bucket. Employees from many countries use the data hub to support company-wide analytics. A governance team must ensure that the company's data analysts can access data only for customers who are within the same country as the analysts.

Which solution will meet these requirements with the LEAST operational effort?

- A. Create a separate table for each country's customer data. Provide access to each analyst based on the country that the analyst serves.
- B. Register the S3 bucket as a data lake location in AWS Lake Formation. Use the Lake Formation row-level security features to enforce the company's access policies.
- C. Move the data to AWS Regions that are close to the countries where the customers are. Provide access to each analyst based on the country that the analyst serves.
- D. Load the data into Amazon Redshift. Create a view for each country. Create separate IAM roles for each country to provide access to data from each country. Assign the appropriate roles to the analysts.

Answer: B

Explanation:

<https://docs.aws.amazon.com/lake-formation/latest/dg/register-data-lake.html>

<https://docs.aws.amazon.com/lake-formation/latest/dg/registration-role.html>

NEW QUESTION # 26

A company wants to migrate data from an Amazon RDS for PostgreSQL DB instance in the eu-east-1 Region of an AWS account named Account_A. The company will migrate the data to an Amazon Redshift cluster in the eu-west-1 Region of an AWS account named Account_B.

Which solution will give AWS Database Migration Service (AWS DMS) the ability to replicate data between two data stores?

- A. Set up an AWS DMS replication instance in Account_A in eu-east-1.
- B. Set up an AWS DMS replication instance in a new AWS account in eu-west-1.
- C. Set up an AWS DMS replication instance in Account_B in eu-west-1.
- D. Set up an AWS DMS replication instance in Account_B in eu-east-1.

Answer: D

Explanation:

https://docs.aws.amazon.com/dms/latest/userguide/CHAP_Target.Redshift.html#CHAP_Target.Redshift.Prerequisites

NEW QUESTION # 27

A Data Engineer executes a complex query and wants to make use of Snowflake's query results caching capabilities to reuse the results.

Which conditions must be met? (Select THREE).

- A. The new query must have the same syntax as the previously executed query.
- B. The `USED_CACHED_RESULT` parameter must be included in the query.
- C. The micro-partitions cannot have changed due to changes to other data in the table
- D. The results must be reused within 72 hours.
- E. The query must be executed using the same virtual warehouse.
- F. The table structure contributing to the query result cannot have changed

Answer: A,D,F

Explanation:

Explanation

Snowflake's query results caching capabilities allow users to reuse the results of previously executed queries without re-executing them. For this to happen, the following conditions must be met:

The results must be reused within 24 hours (not 72 hours), which is the default time-to-live (TTL) for cached results.

The query must be executed using any virtual warehouse (not necessarily the same one), as long as it is in the same region and account as the original query.

The `USED_CACHED_RESULT` parameter does not need to be included in the query, as it is enabled by default at the account level. However, it can be disabled or overridden at the session or statement level.

The table structure contributing to the query result cannot have changed, such as adding or dropping columns, changing data types, or altering constraints.

The new query must have the same syntax as the previously executed query, including whitespace and case sensitivity.

The micro-partitions cannot have changed due to changes to other data in the table, such as inserting, updating, deleting, or merging rows.

NEW QUESTION # 28

A company has implemented a lake house architecture in Amazon Redshift. The company needs to give users the ability to authenticate into Redshift query editor by using a third-party identity provider (IdP).

A data engineer must set up the authentication mechanism.

What is the first step the data engineer should take to meet this requirement?

- A. Register the third-party IdP as an identity provider from within Amazon Redshift.
- B. Register the third-party IdP as an identity provider for AWS Certificate Manager (ACM). Configure Amazon Redshift to use ACM to manage user credentials.
- C. Register the third-party IdP as an identity provider for AWS Secrets Manager. Configure Amazon Redshift to use Secrets Manager to manage user credentials.
- D. Register the third-party IdP as an identity provider in the configuration settings of the Redshift cluster.

Answer: D

Explanation:

To enable users to authenticate into the Amazon Redshift query editor using a third-party identity provider (IdP), the data engineer must first register that IdP within the configuration settings of the Redshift cluster itself.

Amazon Redshift natively supports integrating with external identity providers to manage user authentication. By registering the third-party IdP directly in the Redshift cluster settings, it establishes the trust relationship needed for Redshift to rely on that IdP for authenticating users when they log into the query editor.

NEW QUESTION # 29

A company stores customer records in Amazon S3. The company must not delete or modify the customer record data for 7 years after each record is created. The root user also must not have the ability to delete or modify the data.

A data engineer wants to use S3 Object Lock to secure the data.

Which solution will meet these requirements?

- A. Place a legal hold on individual objects in the S3 bucket. Set the retention period to 7 years.
- B. Enable compliance mode on the S3 bucket. Use a default retention period of 7 years.
- C. Set the retention period for individual objects in the S3 bucket to 7 years.
- D. Enable governance mode on the S3 bucket. Use a default retention period of 7 years.

Answer: B

Explanation:

Compliance Mode is the stricter mode of S3 Object Lock. When enabled, it ensures that no one, not even the root user, can modify or delete the object until the retention period expires. In this case, to meet the requirement of preventing any deletion or modification of the data for 7 years, compliance mode is the correct choice.

Governance Mode allows some users with special permissions (such as the root user) to override the lock and delete or modify the data, which does not meet the strict requirement that even the root user should not have this ability.

Legal Hold is used to prevent deletion of objects without specifying a time-based retention period, but it can be removed by users with sufficient permissions, and the root user might still be able to delete the data.

Retention Period for Individual Objects is possible, but enabling compliance mode provides a more robust solution by applying the same 7-year retention policy bucket-wide, ensuring that no modifications or deletions can occur during that period.

NEW QUESTION # 30

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