

100% Pass Quiz Snowflake - DEA-C01 - SnowPro Advanced: Data Engineer Certification Exam—High Pass-Rate New Braindumps Questions



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Snowflake DEA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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 5	<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.

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Snowflake SnowPro Advanced: Data Engineer Certification Exam Sample Questions (Q155-Q160):

NEW QUESTION # 155

A data engineer is using Amazon QuickSight to build a dashboard to report a company's revenue in multiple AWS Regions. The data engineer wants the dashboard to display the total revenue for a Region, regardless of the drill-down levels shown in the visual. Which solution will meet these requirements?

- A. Create a level-aware calculation - aggregate (LAC-A) function.
- B. Create a table calculation.
- C. Create a simple calculated field.
- D. Create a level-aware calculation - window (LAC-W) function.

Answer: A

Explanation:

Level-Aware Calculations (LAC) in Amazon QuickSight allow users to create calculations that are independent of the levels of aggregation in a visual.

Specifically, the LAC-A (Aggregate) function lets you calculate metrics such as the total revenue for a region regardless of the drill-down levels displayed. This means that even if the user drills down into more granular data, the total revenue for the Region will still be displayed in the dashboard, meeting the requirements.

Table calculations are context-dependent, meaning they calculate values based on the visual's current granularity and drill-down levels. This would not meet the requirement to show total revenue regardless of drill-down.

A simple calculated field operates at the current visual's level of detail and would change as you drill down. It would not maintain the total revenue for a region regardless of drill-down.

LAC-W (Window) functions are typically used for running totals, moving averages, or ranking, which are calculated over a range of data but still affected by drill-down levels. This would not ensure the total revenue is displayed regardless of drill-down.

NEW QUESTION # 156

Stuart, a Lead Data Engineer in MACRO Data Company created streams on set of External tables. He has been asked to extend the data retention period of the stream for 90 days, which parameter he can utilize to enable this extension?

- A. MAX_DATA_EXTENSION_TIME_IN_DAYS
- B. DATA_EXTENSION_TIME_IN_DAYS
- C. None of the above
- D. DATA_RETENTION_TIME_IN_DAYS

Answer: C

Explanation:

Explanation

External tables do not have data retention period applicable.

Good to Understand other Options available.

DATA_RETENTION_TIME_IN_DAYS

Type: Object (for databases, schemas, and tables) - Can be set for Account - Database - Schema - Table Description: Number of days for which Snowflake retains historical data for performing Time Travel actions (SELECT, CLONE, UNDROP) on the object. A value of 0 effectively disables Time Travel for the specified database, schema, or table.

Values:

0 or 1 (for Standard Edition)

0 to 90 (for Enterprise Edition or higher)

Default:

1

MAX_DATA_EXTENSION_TIME_IN_DAYS

Type: Object (for databases, schemas, and tables) - Can be set for Account - Database - Schema - Table Description: Maximum number of days for which Snowflake can extend the data retention period for tables to prevent streams on the tables from becoming stale. By default, if the DA-TA_RETENTION_TIME_IN_DAYS setting for a source table is less than 14 days, and a stream has not been consumed, Snowflake temporarily extends this period to the stream's offset, up to a maximum of 14 days, regardless of the Snowflake Edition for your account. The MAX_DATA_EXTENSION_TIME_IN_DAYS parameter enables you to limit this automatic extension period to control storage costs for data retention or for compliance reasons.

This parameter can be set at the account, database, schema, and table levels. Note that setting the parameter at the account or schema level only affects tables for which the parameter has not already been explicitly set at a lower level (e.g. at the table level by the table owner). A value of 0 effectively disables the automatic extension for the specified database, schema, or table.

Values:

0 to 90 (i.e. 90 days) - a value of 0 disables the automatic extension of the data retention period. To increase the maximum value for tables in your account, Client needs to contact Snowflake Support.

Default:14

NEW QUESTION # 157

A new customer table is created by a data pipeline in a Snowflake schema where MANAGED ACCESS is enabled.

.... Can you grant access to the CUSTOMER table? (Select THREE.)

- A. The USERADMIN role with the manage grants privilege
- B. The SYSADMIN role
- C. The role that owns the schema
- D. The SECURITYADMIN role
- E. The role that owns the database
- F. The role that owns the customer table

Answer: C,D,E

Explanation:

Explanation

The roles that can grant access to the CUSTOMER table are the role that owns the schema, the role that owns the database, and the SECURITYADMIN role. These roles have the ownership or the manage grants privilege on the schema or the database level, which allows them to grant access to any object within them. The other options are incorrect because they do not have the necessary privilege to grant access to the CUSTOMER table. Option C is incorrect because the role that owns the customer table cannot grant access to itself or to other roles. Option D is incorrect because the SYSADMIN role does not have the manage grants privilege by default and cannot grant access to objects that it does not own. Option F is incorrect because the USERADMIN role with the manage grants privilege can only grant access to users and roles, not to tables.

NEW QUESTION # 158

A company stores datasets in JSON format and .csv format in an Amazon S3 bucket. The company has Amazon RDS for Microsoft SQL Server databases, Amazon DynamoDB tables that are in provisioned capacity mode, and an Amazon Redshift cluster. A data engineering team must develop a solution that will give data scientists the ability to query all data sources by using syntax similar to SQL.

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

- A. Use AWS Glue to crawl the data sources. Store metadata in the AWS Glue Data Catalog. Use AWS Glue jobs to transform data that is in JSON format to Apache Parquet or .csv format. Store the transformed data in an S3 bucket. Use Amazon Athena to query the original and transformed data from the S3 bucket.
- B. Use AWS Glue to crawl the data sources. Store metadata in the AWS Glue Data Catalog. Use Redshift Spectrum to query the data. Use SQL for structured data sources. Use PartiQL for data that is stored in JSON format.
- C. Use AWS Glue to crawl the data sources. Store metadata in the AWS Glue Data Catalog. Use Amazon Athena to query the data. Use SQL for structured data sources. Use PartiQL for data that is stored in JSON format.
- D. Use AWS Lake Formation to create a data lake. Use Lake Formation jobs to transform the data from all data sources to Apache Parquet format. Store the transformed data in an S3 bucket. Use Amazon Athena or Redshift Spectrum to query the data.

Answer: C

NEW QUESTION # 159

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 in the configuration settings of the Redshift cluster.
- D. Register the third-party IdP as an identity provider for AWS Secrets Manager. Configure Amazon Redshift to use Secrets Manager to manage user credentials.

Answer: C

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 # 160

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