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SnowPro Advanced Data Engineer Certification

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For most users, access to the relevant qualifying examinations may be the first, so many of the course content related to qualifying examinations are complex and arcane. According to these ignorant beginners, the DEA-C01 exam questions set up a series of basic course, by easy to read, with corresponding examples to explain at the same time, the DEA-C01 study question let the user to be able to find in real life and corresponds to the actual use of DEA-C01 learned knowledge. And it will only takes 20 to 30 hours for them to pass the DEA-C01 exam.

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"> • 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"> • 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 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"> • 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 (Q296-Q301):

NEW QUESTION # 296

A company's data engineer needs to optimize the performance of table SQL queries. The company stores data in an Amazon Redshift cluster. The data engineer cannot increase the size of the cluster because of budget constraints.

The company stores the data in multiple tables and loads the data by using the EVEN distribution style. Some tables are hundreds of gigabytes in size. Other tables are less than 10 MB in size.

Which solution will meet these requirements?

- A. Keep using the EVEN distribution style for all tables. Specify primary and foreign keys for all tables.
- **B. Use the ALL distribution style for rarely updated small tables. Specify primary and foreign keys for all tables.**
- C. Specify a combination of distribution, sort, and partition keys for all tables.
- D. Use the ALL distribution style for large tables. Specify primary and foreign keys for all tables.

Answer: B

Explanation:

Use the ALL Distribution Style for Rarely Updated Small Tables. This approach optimizes the performance of joins involving these smaller tables and is a common best practice in Redshift data warehousing. For the larger tables, maintaining the EVEN distribution style or considering a KEY-based distribution (if there are common join columns) could be more appropriate.

NEW QUESTION # 297

A company stores data in Amazon S3 and Amazon RDS. The company needs to apply technical controls to meet security requirements. The company must generate backups of the data and retain the backups for specified retention periods. The company must protect the backups from accidental or malicious deletion during the retention periods.

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

- A. Create S3 buckets with versioning and Same-Region Replication enabled. Set a backup retention period and backup

window for each RDS DB instance. Use the automated backup feature of Amazon RDS. Take additional snapshots as required.

- B. Create S3 buckets with versioning and Cross-Region Replication enabled. Set a backup retention period and backup window for each RDS DB instance. Use Amazon RDS automated backups. Take additional snapshots as required.
- **C. Create a backup plan in AWS Backup. Specify the backup schedule, set window and lifecycle values, and select a backup vault. Assign the Amazon S3 and Amazon RDS resources to the backup plan. Create a vault lock in compliance mode.**
- D. Create S3 buckets with versioning and MFA Delete enabled. Set a backup retention period and backup window for each RDS DB instance. Use the automated backup feature of Amazon RDS, and take additional snapshots as required.

Answer: C

Explanation:

AWS Backup centrally automates backups for S3 and RDS with scheduled plans and lifecycle policies, and Vault Lock (compliance mode) enforces WORM immutability to prevent modification or deletion during retention, meeting security and retention requirements with minimal administration.

NEW QUESTION # 298

A company uses an Amazon QuickSight dashboard to monitor usage of one of the company's applications. The company uses AWS Glue jobs to process data for the dashboard. The company stores the data in a single Amazon S3 bucket. The company adds new data every day.

A data engineer discovers that dashboard queries are becoming slower over time. The data engineer determines that the root cause of the slowing queries is long-running AWS Glue jobs.

Which actions should the data engineer take to improve the performance of the AWS Glue jobs?

(Choose two.)

- A. Adjust AWS Glue job scheduling frequency so the jobs run half as many times each day.
- B. Convert the AWS Glue schema to the DynamicFrame schema class.
- **C. Increase the AWS Glue instance size by scaling up the worker type.**
- D. Modify the IAM role that grants access to AWS glue to grant access to all S3 features.
- **E. Partition the data that is in the S3 bucket. Organize the data by year, month, and day.**

Answer: C,E

NEW QUESTION # 299

An online retail company stores Application Load Balancer (ALB) access logs in an Amazon S3 bucket. The company wants to use Amazon Athena to query the logs to analyze traffic patterns.

A data engineer creates an unpartitioned table in Athena. As the amount of the data gradually increases, the response time for queries also increases. The data engineer wants to improve the query performance in Athena.

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

- A. Create an AWS Glue job that determines the schema of all ALB access logs and writes the partition metadata to AWS Glue Data Catalog.
- B. Create an AWS Lambda function to transform all ALB access logs. Save the results to Amazon S3 in Apache Parquet format. Partition the metadata. Use Athena to query the transformed data.
- **C. Create an AWS Glue crawler that includes a classifier that determines the schema of all ALB access logs and writes the partition metadata to AWS Glue Data Catalog.**
- D. Use Apache Hive to create bucketed tables. Use an AWS Lambda function to transform all ALB access logs.

Answer: C

Explanation:

An AWS Glue crawler can automatically determine the schema of the logs, infer partitions, and update the Glue Data Catalog. Crawlers can be scheduled to run at intervals, minimizing manual intervention.

NEW QUESTION # 300

As a Data Engineer, you have requirement to query most recent data from the Large Dataset that reside in the external cloud

storage, how would you design your data pipelines keeping in mind fastest time to delivery?

- A. Direct Querying External tables on top of existing data stored in external cloud storage for analysis without first loading it into Snowflake.
- B. Data pipelines would be created to first load data into internal stages & then into Permanent table with SCD Type 2 transformation.
- **C. External tables with Materialized views can be created in Snowflake.**
- D. Snowpipe can be leveraged with streams to load data in micro batch fashion with CDC streams that capture most recent data only.
- E. Unload data into Snowflake Internal data storage using PUT command.

Answer: C

Explanation:

Explanation

In a typical table, the data is stored in the database; however, in an external table, the data is stored in files in an external stage.

External tables store file-level metadata about the data files, such as the filename, a version identifier and related properties. This enables querying data stored in files in an external stage as if it were inside a database. External tables can access data stored in any format supported by COPY INTO <table> statements.

External tables are read-only, therefore no DML operations can be performed on them; however, external tables can be used for query and join operations. Views can be created against external tables.

Querying data stored external to the database is likely to be slower than querying native database tables; however, materialized views based on external tables can improve query performance.

Creating External tables enable user for querying existing data stored in external cloud storage for analysis without first loading it into Snowflake. The source of truth for the data remains in the external cloud storage.

Data sets materialized in Snowflake via materialized views are read-only.

This solution is especially beneficial to accounts that have a large amount of data stored in external cloud storage and only want to query a portion of the data; for example, the most recent data. Users can create materialized views on subsets of this data for improved query performance.

NEW QUESTION # 301

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