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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q25-Q30):

NEW QUESTION # 25

A company uses an Amazon Redshift cluster as a data warehouse that is shared across two departments. To comply with a security policy, each department must have unique access permissions.

Department A must have access to tables and views for Department A. Department B must have access to tables and views for Department B.

The company often runs SQL queries that use objects from both departments in one query.

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

- A. Group tables and views for each department into dedicated schemas. Manage permissions at the schema level.
- B. Update the names of the tables and views to follow a naming convention that contains the department names. Manage

- permissions based on the new naming convention.
- C. Create an IAM user group for each department. Use identity-based IAM policies to grant table and view permissions based on the IAM user group.
- D. Group tables and views for each department into dedicated databases. Manage permissions at the database level.

Answer: A

NEW QUESTION # 26

A company has used an Amazon Redshift table that is named Orders for 6 months. The company performs weekly updates and deletes on the table. The table has an interleaved sort key on a column that contains AWS Regions.

The company wants to reclaim disk space so that the company will not run out of storage space. The company also wants to analyze the sort key column.

Which Amazon Redshift command will meet these requirements?

- A. VACUUM DELETE ONLY Orders
- B. VACUUM FULL Orders
- C. VACUUM SORT ONLY Orders
- **D. VACUUM REINDEX Orders**

Answer: D

Explanation:

Amazon Redshift is a fully managed, petabyte-scale data warehouse service that enables fast and cost-effective analysis of large volumes of data. Amazon Redshift uses columnar storage, compression, and zone maps to optimize the storage and performance of data. However, over time, as data is inserted, updated, or deleted, the physical storage of data can become fragmented, resulting in wasted disk space and degraded query performance. To address this issue, Amazon Redshift provides the VACUUM command, which reclaims disk space and resorts rows in either a specified table or all tables in the current schema.

The VACUUM command has four options: FULL, DELETE ONLY, SORT ONLY, and REINDEX. The option that best meets the requirements of the question is VACUUM REINDEX, which re-sorts the rows in a table that has an interleaved sort key and rewrites the table to a new location on disk. An interleaved sort key is a type of sort key that gives equal weight to each column in the sort key, and stores the rows in a way that optimizes the performance of queries that filter by multiple columns in the sort key. However, as data is added or changed, the interleaved sort order can become skewed, resulting in suboptimal query performance. The VACUUM REINDEX option restores the optimal interleaved sort order and reclaims disk space by removing deleted rows. This option also analyzes the sort key column and updates the table statistics, which are used by the query optimizer to generate the most efficient query execution plan²³.

The other options are not optimal for the following reasons:

A. VACUUM FULL Orders. This option reclaims disk space by removing deleted rows and resorts the entire table. However, this option is not suitable for tables that have an interleaved sort key, as it does not restore the optimal interleaved sort order. Moreover, this option is the most resource-intensive and time-consuming, as it rewrites the entire table to a new location on disk.

B. VACUUM DELETE ONLY Orders. This option reclaims disk space by removing deleted rows, but does not resort the table. This option is not suitable for tables that have any sort key, as it does not improve the query performance by restoring the sort order. Moreover, this option does not analyze the sort key column and update the table statistics.

D. VACUUM SORT ONLY Orders. This option resorts the entire table, but does not reclaim disk space by removing deleted rows. This option is not suitable for tables that have an interleaved sort key, as it does not restore the optimal interleaved sort order. Moreover, this option does not analyze the sort key column and update the table statistics.

1: Amazon Redshift VACUUM

2: Amazon Redshift Interleaved Sorting

3: Amazon Redshift ANALYZE

NEW QUESTION # 27

A data engineer needs to schedule a workflow that runs a set of AWS Glue jobs every day. The data engineer does not require the Glue jobs to run or finish at a specific time.

Which solution will run the Glue jobs in the MOST cost-effective way?

- A. Choose the latest version in the GlueVersion field in the Glue job properties.
- **B. Choose the FLEX execution class in the Glue job properties.**
- C. Use the Spot Instance type in Glue job properties.
- D. Choose the STANDARD execution class in the Glue job properties.

Answer: B

Explanation:

The FLEX execution class allows you to run AWS Glue jobs on spare compute capacity instead of dedicated hardware. This can reduce the cost of running non-urgent or non-time sensitive data integration workloads, such as testing and one-time data loads. The FLEX execution class is available for AWS Glue 3.0 Spark jobs. The other options are not as cost-effective as FLEX, because they either use dedicated resources (STANDARD) or do not affect the cost at all (Spot Instance type and GlueVersion). Reference:

Introducing AWS Glue Flex jobs: Cost savings on ETL workloads

Serverless Data Integration - AWS Glue Pricing

AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide (Chapter 5, page 125)

NEW QUESTION # 28

A company uses AWS Key Management Service (AWS KMS) to encrypt an Amazon Redshift cluster. The company wants to configure a cross-Region snapshot of the Redshift cluster as part of disaster recovery (DR) strategy.

A data engineer needs to use the AWS CLI to create the cross-Region snapshot.

Which combination of steps will meet these requirements? (Select TWO.)

- A. In the source AWS Region, enable snapshot copying. Specify the name of the snapshot copy grant that is created in the source AWS Region.
- B. Convert the cluster to a Multi-AZ deployment.
- C. In the source AWS Region, enable snapshot copying. Specify the name of the snapshot copy grant that is created in the destination AWS Region.
- D. Create a KMS key and configure a snapshot copy grant in the source AWS Region.
- E. Create a KMS key and configure a snapshot copy grant in the destination AWS Region.

Answer: A,E

Explanation:

To perform cross-Region snapshot copying of an encrypted Redshift cluster, AWS documentation and the exam study guide clearly outline two essential steps:

* You must create a snapshot copy grant in the destination Region. This allows Amazon Redshift to encrypt the snapshots using the specified AWS KMS key.

* You must enable snapshot copying in the source Region and specify the name of the snapshot copy grant that was created in the destination Region.

From the study guide:

"To enable cross-region copy of encrypted snapshots, you must create a snapshot copy grant in the destination Region and enable snapshot copying in the source Region by specifying the snapshot copy grant name."

-Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf Option E (Multi-AZ deployment) is not applicable to Amazon Redshift, which does not support Multi-AZ configurations like Amazon RDS.

NEW QUESTION # 29

A company analyzes data in a data lake every quarter to perform inventory assessments. A data engineer uses AWS Glue DataBrew to detect any personally identifiable information (PII) about customers within the data.

The company's privacy policy considers some custom categories of information to be PII. However, the categories are not included in standard DataBrew data quality rules.

The data engineer needs to modify the current process to scan for the custom PII categories across multiple datasets within the data lake.

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

- A. Develop custom Python scripts to detect the custom PII categories. Call the scripts from DataBrew.
- B. Implement regex patterns to extract PII information from fields during extract transform, and load (ETL) operations into the data lake.
- C. Manually review the data for custom PII categories.
- D. Implement custom data quality rules in Data Brew. Apply the custom rules across datasets.

Answer: D

Explanation:

The data engineer needs to detect custom categories of PII within the data lake using AWS Glue DataBrew.

While DataBrew provides standard data quality rules, the solution must support custom PII categories.

* Option B: Implement custom data quality rules in DataBrew. Apply the custom rules across datasets. This option is the most efficient because DataBrew allows the creation of custom data quality rules that can be applied to detect specific data patterns, including custom PII categories. This approach minimizes operational overhead while ensuring that the specific privacy requirements are met.

Options A, C, and D either involve manual intervention or developing custom scripts, both of which increase operational effort compared to using DataBrew's built-in capabilities.

References:

* AWS Glue DataBrew Documentation

NEW QUESTION # 30

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