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Viele der Data-Engineer-Associate Fragenkatalog AWS Certified Data Engineer - Associate (DEA-C01) aus EchteFrage sind in der Form von Vielfache-Wahl-Fragen. Um Ihre Data-Engineer-Associate Zertifizierungsprüfungen reibungslos zu meistern, brauchen Sie nur unsere Amazon Data-Engineer-Associate Prüfungsfragen und Antworten (AWS Certified Data Engineer - Associate (DEA-C01)) auswendigzulernen.

Alle Anfang ist schwer. Zögern Sie noch, wie mit der Vorbereitung der Amazon Data-Engineer-Associate Prüfung anfangen? Die Prüfungsunterlagen der Amazon Data-Engineer-Associate von uns zu kaufen wird ein notwendiger Schritt Ihrer Vorbereitung. Was wir Ihnen bieten, ist nicht nur was Sie möchten, sondern auch was für Ihre Vorbereitung der Amazon Data-Engineer-Associate Prüfung unerlässlich ist. Vielleicht haben Sie noch Hemmungen mit diesem Schritt. So können Sie zuerst die Demo der Amazon Data-Engineer-Associate Prüfungsunterlagen herunterladen. Nachdem Sie probiert haben, werden Sie bestimmt diesen Schritt machen.

>> Data-Engineer-Associate Lerntipps <<

Data-Engineer-Associate Übungsmaterialien & Data-Engineer-Associate Lernführung: AWS Certified Data Engineer - Associate (DEA-C01) & Data-Engineer-Associate Lernguide

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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Data-

Engineer-Associate Prüfungsfragen mit Lösungen (Q115-Q120):

115. Frage

A company stores logs in an Amazon S3 bucket. When a data engineer attempts to access several log files, the data engineer discovers that some files have been unintentionally deleted.

The data engineer needs a solution that will prevent unintentional file deletion in the future.

Which solution will meet this requirement with the LEAST operational overhead?

- **A. Enable S3 Versioning for the S3 bucket.**
- B. Configure replication for the S3 bucket.
- C. Manually back up the S3 bucket on a regular basis.
- D. Use an Amazon S3 Glacier storage class to archive the data that is in the S3 bucket.

Antwort: A

Begründung:

To prevent unintentional file deletions and meet the requirement with minimal operational overhead, enabling S3 Versioning is the best solution.

S3 Versioning:

S3 Versioning allows multiple versions of an object to be stored in the same S3 bucket. When a file is deleted or overwritten, S3 preserves the previous versions, which means you can recover from accidental deletions or modifications.

Enabling versioning requires minimal overhead, as it is a bucket-level setting and does not require additional backup processes or data replication.

Users can recover specific versions of files that were unintentionally deleted, meeting the needs of the data engineer to avoid accidental data loss.

Reference:

Alternatives Considered:

A (Manual backups): Manually backing up the bucket requires higher operational effort and maintenance compared to enabling S3 Versioning, which is automated.

C (S3 Replication): Replication ensures data is copied to another bucket but does not provide protection against accidental deletion. It would increase operational costs without solving the core issue of accidental deletion.

D (S3 Glacier): Storing data in Glacier provides long-term archival storage but is not designed to prevent accidental deletion. Glacier is also more suitable for archival and infrequently accessed data, not for active logs.

Amazon S3 Versioning Documentation

S3 Data Protection Best Practices

116. Frage

A company uses an Amazon Redshift provisioned cluster as its database. The Redshift cluster has five reserved ra3.4xlarge nodes and uses key distribution.

A data engineer notices that one of the nodes frequently has a CPU load over 90%. SQL Queries that run on the node are queued. The other four nodes usually have a CPU load under 15% during daily operations.

The data engineer wants to maintain the current number of compute nodes. The data engineer also wants to balance the load more evenly across all five compute nodes.

Which solution will meet these requirements?

- A. Upgrade the reserved node from ra3.4xlarge to ra3.16xlarge.
- B. Change the primary key to be the data column that is most often used in a WHERE clause of the SQL SELECT statement.
- **C. Change the distribution key to the table column that has the largest dimension.**
- D. Change the sort key to be the data column that is most often used in a WHERE clause of the SQL SELECT statement.

Antwort: C

Begründung:

Changing the distribution key to the table column that has the largest dimension will help to balance the load more evenly across all five compute nodes. The distribution key determines how the rows of a table are distributed among the slices of the cluster. If the distribution key is not chosen wisely, it can cause data skew, meaning some slices will have more data than others, resulting in uneven CPU load and query performance. By choosing the table column that has the largest dimension, meaning the column that has the most distinct values, as the distribution key, the data engineer can ensure that the rows are distributed more uniformly across the slices, reducing data skew and improving query performance.

The other options are not solutions that will meet the requirements. Option A, changing the sort key to be the data column that is

most often used in a WHERE clause of the SQL SELECT statement, will not affect the data distribution or the CPU load. The sort key determines the order in which the rows of a table are stored on disk, which can improve the performance of range-restricted queries, but not the load balancing. Option C, upgrading the reserved node from ra3.4xlarge to ra3.16xlarge, will not maintain the current number of compute nodes, as it will increase the cost and the capacity of the cluster. Option D, changing the primary key to be the data column that is most often used in a WHERE clause of the SQL SELECT statement, will not affect the data distribution or the CPU load either. The primary key is a constraint that enforces the uniqueness of the rows in a table, but it does not influence the data layout or the query optimization. Reference:

Choosing a data distribution style

Choosing a data sort key

Working with primary keys

117. Frage

A company stores employee data in Amazon Redshift. A table named Employee uses columns named Region ID, Department ID, and Role ID as a compound sort key. Which queries will MOST increase the speed of a query by using a compound sort key of the table? (Select TWO.)

- A. **Select * from Employee where Region ID='North America' and Department ID=20;**
- B. Select " from Employee where Role ID=50;
- C. Select * from Employee where Region ID='North America' and Role ID=50;
- **D. Select * from Employee where Department ID=20 and Region ID='North America';**
- E. Select * from Employee where Region ID='North America';

Antwort: A,D

Begründung:

In Amazon Redshift, a compound sort key is designed to optimize the performance of queries that use filtering and join conditions on the columns in the sort key. A compound sort key orders the data based on the first column, followed by the second, and so on. In the scenario given, the compound sort key consists of Region ID, Department ID, and Role ID. Therefore, queries that filter on the leading columns of the sort key are more likely to benefit from this order.

* Option B: "Select * from Employee where Region ID='North America' and Department ID=20;" This query will perform well because it uses both the Region ID and Department ID, which are the first two columns of the compound sort key. The order of the columns in the WHERE clause matches the order in the sort key, thus allowing the query to scan fewer rows and improve performance.

* Option C: "Select * from Employee where Department ID=20 and Region ID='North America';" This query also benefits from the compound sort key because it includes both Region ID and Department ID, which are the first two columns in the sort key.

Although the order in the WHERE clause does not match exactly, Amazon Redshift will still leverage the sort key to reduce the amount of data scanned, improving query speed.

* Options A, D, and E are less optimal because they do not utilize the sort key as effectively:

* Option A only filters by the Region ID, which may still use the sort key but does not take full advantage of the compound nature.

* Option D uses only Role ID, the last column in the compound sort key, which will not benefit much from sorting since it is the third key in the sort order.

* Option E filters on Region ID and Role ID but skips the Department ID column, making it less efficient for the compound sort key.

References:

* Amazon Redshift Documentation - Sorting Data

* AWS Certified Data Analytics Study Guide

* AWS Certification - Data Engineer Associate Exam Guide

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Option B: "Select * from Employee where Region ID='North America' and Department ID=20;" This query will perform well because it uses both the Region ID and Department ID, which are the first two columns of the compound sort key. The order of the columns in the WHERE clause matches the order in the sort key, thus allowing the query to scan fewer rows and improve performance.

Option C: "Select * from Employee where Department ID=20 and Region ID='North America';" This query also benefits from the compound sort key because it includes both Region ID and Department ID, which are the first two columns in the sort key. Although the order in the WHERE clause does not match exactly, Amazon Redshift will still leverage the sort key to reduce the amount of data scanned, improving query speed.

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AWS Certified Data Analytics Study Guide

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119. Frage

A sales company uses AWS Glue ETL to collect, process, and ingest data into an Amazon S3 bucket. The AWS Glue pipeline creates a new file in the S3 bucket every hour. File sizes vary from 200 KB to 300 KB.

The company wants to build a sales prediction model by using data from the previous 5 years. The historic data includes 44,000 files.

The company builds a second AWS Glue ETL pipeline by using the smallest worker type. The second pipeline retrieves the historic files from the S3 bucket and processes the files for downstream analysis. The company notices significant performance issues with the second ETL pipeline.

The company needs to improve the performance of the second pipeline.

Which solution will meet this requirement MOST cost-effectively?

- A. Use a larger worker type.
- B. Increase the number of workers in the AWS Glue ETL jobs.
- C. Use the AWS Glue DynamicFrame grouping option.
- D. Enable AWS Glue auto scaling.

Antwort: D

Begründung:

When processing many small files, the overhead of managing partitions can degrade performance. Rather than scaling workers manually, enabling AWS Glue auto scaling dynamically adjusts worker count based on resource requirements, which is cost-effective and addresses the performance concern.

"AWS Glue auto scaling automatically adds or removes workers based on the workload, which is efficient for handling performance bottlenecks when working with many small files."

-Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf Manually scaling up workers or increasing their size (A, B) can be more expensive and less adaptive.

120. Frage

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