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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q187-Q192):

NEW QUESTION # 187

A data engineer is launching an Amazon EMR cluster. The data that the data engineer needs to load into the new cluster is currently in an Amazon S3 bucket. The data engineer needs to ensure that data is encrypted both at rest and in transit.

The data that is in the S3 bucket is encrypted by an AWS Key Management Service (AWS KMS) key. The data engineer has an Amazon S3 path that has a Privacy Enhanced Mail (PEM) file.

Which solution will meet these requirements?

- A. Create an Amazon EMR security configuration. Specify the appropriate AWS KMS key for local disk encryption for the S3 bucket. Specify the Amazon S3 path of the PEM file for in-transit encryption. Use the security configuration during EMR

cluster creation.

- B. Create an Amazon EMR security configuration. Specify the appropriate AWS KMS key for at-rest encryption for the S3 bucket. Specify the Amazon S3 path of the PEM file for in-transit encryption. Create the EMR cluster, and attach the security configuration to the cluster.
- C. Create an Amazon EMR security configuration. Specify the appropriate AWS KMS key for at-rest encryption for the S3 bucket. Create a second security configuration. Specify the Amazon S3 path of the PEM file for in-transit encryption. Create the EMR cluster, and attach both security configurations to the cluster.
- **D. Create an Amazon EMR security configuration. Specify the appropriate AWS KMS key for at-rest encryption for the S3 bucket. Specify the Amazon S3 path of the PEM file for in-transit encryption. Use the security configuration during EMR cluster creation.**

Answer: D

Explanation:

To meet both encryption at rest and in transit, a single Amazon EMR security configuration can be created specifying the AWS KMS key for encryption at rest and the PEM file for in-transit encryption. The study guide clearly states:

"AWS Key Management Service (KMS) provides encryption for data at rest, and SSL/TLS ensures encryption for data in transit, providing end-to-end encryption within an AWS environment."

-Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf A single security configuration is sufficient and the cleanest way to apply these security features during EMR cluster setup.

NEW QUESTION # 188

A data engineer needs Amazon Athena queries to finish faster. The data engineer notices that all the files the Athena queries use are currently stored in uncompressed .csv format. The data engineer also notices that users perform most queries by selecting a specific column.

Which solution will MOST speed up the Athena query performance?

- A. Change the data format from .csv to JSON format. Apply Snappy compression.
- B. Compress the .csv files by using `gzip` compression.
- **C. Change the data format from .csv to Apache Parquet. Apply Snappy compression.**
- D. Compress the .csv files by using Snappy compression.

Answer: C

Explanation:

Amazon Athena is a serverless interactive query service that allows you to analyze data in Amazon S3 using standard SQL. Athena supports various data formats, such as CSV, JSON, ORC, Avro, and Parquet. However, not all data formats are equally efficient for querying. Some data formats, such as CSV and JSON, are row-oriented, meaning that they store data as a sequence of records, each with the same fields. Row-oriented formats are suitable for loading and exporting data, but they are not optimal for analytical queries that often access only a subset of columns. Row-oriented formats also do not support compression or encoding techniques that can reduce the data size and improve the query performance.

On the other hand, some data formats, such as ORC and Parquet, are column-oriented, meaning that they store data as a collection of columns, each with a specific data type. Column-oriented formats are ideal for analytical queries that often filter, aggregate, or join data by columns. Column-oriented formats also support compression and encoding techniques that can reduce the data size and improve the query performance. For example, Parquet supports dictionary encoding, which replaces repeated values with numeric codes, and run-length encoding, which replaces consecutive identical values with a single value and a count. Parquet also supports various compression algorithms, such as Snappy, GZIP, and ZSTD, that can further reduce the data size and improve the query performance.

Therefore, changing the data format from CSV to Parquet and applying Snappy compression will most speed up the Athena query performance. Parquet is a column-oriented format that allows Athena to scan only the relevant columns and skip the rest, reducing the amount of data read from S3. Snappy is a compression algorithm that reduces the data size without compromising the query speed, as it is splittable and does not require decompression before reading. This solution will also reduce the cost of Athena queries, as Athena charges based on the amount of data scanned from S3.

The other options are not as effective as changing the data format to Parquet and applying Snappy compression. Changing the data format from CSV to JSON and applying Snappy compression will not improve the query performance significantly, as JSON is also a row-oriented format that does not support columnar access or encoding techniques. Compressing the CSV files by using Snappy compression will reduce the data size, but it will not improve the query performance significantly, as CSV is still a row-oriented format that does not support columnar access or encoding techniques. Compressing the CSV files by using `gzip` compression will reduce the data size, but it will degrade the query performance, as `gzip` is not a splittable compression algorithm and requires decompression before reading. Reference:

Amazon Athena

Choosing the Right Data Format

AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 5: Data Analysis and Visualization, Section 5.1: Amazon Athena

NEW QUESTION # 189

A data engineer is using an AWS Glue ETL job to remove outdated customer records from a table that contains customer account information. The data engineer is using the following SQL command:

```
MERGE INTO accounts t USING monthly_accounts_update s
```

```
ON t.customer = s.customer
```

```
WHEN MATCHED THEN DELETE
```

What will happen when the data engineer runs the SQL command?

- A. All customer records that exist in both the customer accounts table and the monthly_accounts_update table will be deleted from the accounts table.
- B. Only customer records that are present in both tables will be retained in the customer accounts table.
- C. No records will be deleted because the command syntax is not valid in AWS Glue.
- D. The monthly_accounts_update table will be deleted.

Answer: A

Explanation:

In AWS Glue's SQL implementation (Spark SQL-compatible), the MERGE INTO statement supports conditional actions.

The clause WHEN MATCHED THEN DELETE deletes matching records from the target table (accounts) where the join condition is true.

"A MERGE INTO statement can perform updates, inserts, or deletes based on the match condition between source and target tables."

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NEW QUESTION # 190

A company has a data warehouse in Amazon Redshift. To comply with security regulations, the company needs to log and store all user activities and connection activities for the data warehouse.

Which solution will meet these requirements?

- A. Create an Amazon Elastic File System (Amazon EFS) file system. Enable logging for the Amazon Redshift cluster. Write logs to the EFS file system.
- B. Create an Amazon Elastic Block Store (Amazon EBS) volume. Enable logging for the Amazon Redshift cluster. Write the logs to the EBS volume.
- C. Create an Amazon S3 bucket. Enable logging for the Amazon Redshift cluster. Specify the S3 bucket in the logging configuration to store the logs.
- D. Create an Amazon Aurora MySQL database. Enable logging for the Amazon Redshift cluster. Write the logs to a table in the Aurora MySQL database.

Answer: C

Explanation:

* Problem Analysis:

* The company must log all user activities and connection activities in Amazon Redshift for security compliance.

* Key Considerations:

* Redshift supports audit logging, which can be configured to write logs to an S3 bucket.

* S3 provides durable, scalable, and cost-effective storage for logs.

* Solution Analysis:

* Option A: S3 for Logging

* Standard approach for storing Redshift logs.

* Easy to set up and manage with minimal cost.

* Option B: Amazon EFS

* EFS is unnecessary for this use case and less cost-efficient than S3.

* Option C: Aurora MySQL

* Using a database to store logs increases complexity and cost.

- * Option D: EBS Volume
 - * EBS is not a scalable option for log storage compared to S3.
 - * Final Recommendation:
 - * Enable Redshift audit logging and specify an S3 bucket as the destination.
- :
- Amazon Redshift Audit Logging
Storing Logs in Amazon S3

NEW QUESTION # 191

A company stores customer data in an Amazon S3 bucket. The company must permanently delete all customer data that is older than 7 years.

- A. Configure an S3 Lifecycle policy to move objects that are older than 7 years to S3 Glacier Deep Archive.
- B. Use Amazon Athena to query the S3 bucket for objects that are older than 7 years. Configure Athena to delete the results.
- **C. Configure an S3 Lifecycle policy to permanently delete objects that are older than 7 years.**
- D. Configure an S3 Lifecycle policy to enable S3 Object Lock on all objects that are older than 7 years.

Answer: C

Explanation:

S3 Lifecycle policies automate data retention and deletion. By specifying an expiration rule for 7 years, objects older than that period are permanently deleted without manual intervention.

"To automatically delete aged data, configure an S3 Lifecycle rule with an expiration policy for objects older than the retention period."

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NEW QUESTION # 192

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