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Below are the free 10 sample questions.

Question 1:

A data engineer working for an analytics company is working on a consumer to a Kinesis Data Streams application. They have written the consumer using Kinesis Client Library (KCL), however, currently they are receiving an ExpiredIteratorException when reading records from Kinesis Data Streams. What would you recommend to the engineer to solve their issue?

- A. Change the capacity mode of the Kinesis Data Stream to on-demand.
- B. Increase WCU in DynamoDB checkpointing table.
- C. Increase the amount of shards in Kinesis Data Streams.
- D. Increase RCU in DynamoDB checkpointing table.

Answer: B

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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q169-Q174):

NEW QUESTION # 169

A retail company uses Amazon Aurora PostgreSQL to process and store live transactional data. The company uses an Amazon Redshift cluster for a data warehouse.

An extract, transform, and load (ETL) job runs every morning to update the Redshift cluster with new data from the PostgreSQL database. The company has grown rapidly and needs to cost optimize the Redshift cluster.

A data engineer needs to create a solution to archive historical data. The data engineer must be able to run analytics queries that effectively combine data from live transactional data in PostgreSQL, current data in Redshift, and archived historical data. The solution must keep only the most recent 15 months of data in Amazon Redshift to reduce costs.

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

- A. Configure the Amazon Redshift Federated Query feature to query live transactional data that is in the PostgreSQL database.
- B. Schedule a monthly job to copy data that is older than 15 months to Amazon S3 by using the UNLOAD command. Delete the old data from the Redshift cluster. Configure Amazon Redshift Spectrum to access historical data in Amazon S3.
- C. Configure Amazon Redshift Spectrum to query live transactional data that is in the PostgreSQL database.
- D. Create a materialized view in Amazon Redshift that combines live, current, and historical data from different sources.
- E. Schedule a monthly job to copy data that is older than 15 months to Amazon S3 Glacier Flexible Retrieval by using the UNLOAD command. Delete the old data from the Redshift cluster. Configure Redshift Spectrum to access historical data from S3 Glacier Flexible Retrieval.

Answer: A,B

Explanation:

The goal is to archive historical data from an Amazon Redshift data warehouse while combining live transactional data from Amazon Aurora PostgreSQL with current and historical data in a cost-efficient manner. The company wants to keep only the last 15 months of data in Redshift to reduce costs.

Option A: "Configure the Amazon Redshift Federated Query feature to query live transactional data that is in the PostgreSQL database." Redshift Federated Query allows querying live transactional data directly from Aurora PostgreSQL without having to move it into Redshift, thereby enabling seamless integration of the current data in Redshift and live data in PostgreSQL. This is a cost-effective approach, as it avoids unnecessary data duplication.

Option C: "Schedule a monthly job to copy data that is older than 15 months to Amazon S3 by using the UNLOAD command. Delete the old data from the Redshift cluster. Configure Amazon Redshift Spectrum to access historical data in Amazon S3." This option uses Amazon Redshift Spectrum, which enables Redshift to query data directly in S3 without moving it into Redshift. By unloading older data (older than 15 months) to S3, and then using Spectrum to access it, this approach reduces storage costs significantly while still allowing the data to be queried when necessary.

Option B (Redshift Spectrum for live PostgreSQL data) is not applicable, as Redshift Spectrum is intended for querying data in Amazon S3, not live transactional data in Aurora.

Option D (S3 Glacier Flexible Retrieval) is not suitable because Glacier is designed for long-term archival storage with infrequent access, and querying data in Glacier for analytics purposes would incur higher retrieval times and costs.

Option E (materialized views) would not meet the need to archive data or combine it from multiple sources; it is best suited for combining frequently accessed data already in Redshift.

Reference:

Amazon Redshift Federated Query

Amazon Redshift Spectrum Documentation

Amazon Redshift UNLOAD Command

NEW QUESTION # 170

A data engineer needs to create an Amazon Athena table based on a subset of data from an existing Athena table named `cities_world`. The `cities_world` table contains cities that are located around the world. The data engineer must create a new table named `cities_us` to contain only the cities from `cities_world` that are located in the US.

Which SQL statement should the data engineer use to meet this requirement?

A.

```
INSERT INTO cities_usa (city,state) SELECT city, state FROM cities_world WHERE country='usa';
```

B.

```
MOVE city, state FROM cities_world TO cities_usa WHERE country='usa';
```

C.

```
INSERT INTO cities_usa SELECT city, state FROM cities_world WHERE country='usa';
```

D.

```
UPDATE cities_usa SET (city, state) = (SELECT city, state FROM cities_world WHERE
```

- **A. Option A**
- B. Option D
- C. Option C
- D. Option B

Answer: A

Explanation:

To create a new table named `cities_usa` in Amazon Athena based on a subset of data from the existing `cities_world` table, you should use an `INSERT INTO` statement combined with a `SELECT` statement to filter only the records where the country is 'usa'. The correct SQL syntax would be:

Option A: `INSERT INTO cities_usa (city, state) SELECT city, state FROM cities_world WHERE country='usa';` This statement inserts only the cities and states where the country column has a value of 'usa' from the `cities_world` table into the `cities_usa` table. This is a correct approach to create a new table with data filtered from an existing table in Athena.

Options B, C, and D are incorrect due to syntax errors or incorrect SQL usage (e.g., the `MOVE` command or the use of `UPDATE` in a non-relevant context).

References:

Amazon Athena SQL Reference
Creating Tables in Athena

NEW QUESTION # 171

A data engineer needs to optimize the performance of a data pipeline that handles retail orders. Data about the orders is ingested daily into an Amazon S3 bucket.

The data engineer runs queries once each week to extract metrics from the orders data based on the order date for multiple date ranges. The data engineer needs an optimization solution that ensures the query performance will not degrade when the volume of data increases.

- A. Partition the data based on load date. Use Amazon EMR to query the data.
- **B. Partition the data based on order date. Use Amazon Athena to query the data.**
- C. Partition the data based on order date. Use Amazon Redshift to query the data.
- D. Partition the data based on load date. Use Amazon Aurora to query the data.

Answer: B

Explanation:

For query workloads on S3 data that depend on date-based filters, partitioning by order date optimizes performance and cost because Athena reads only the relevant partitions.

Athena scales automatically and doesn't degrade with increasing data size when partitions are managed efficiently.

"Partitioning data in Amazon S3 based on query predicates such as order date improves Athena query performance and reduces scanned data volume."

- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf This is the most cost-effective and scalable option for date-based queries.

NEW QUESTION # 172

A company receives call logs as Amazon S3 objects that contain sensitive customer information. The company must protect the S3 objects by using encryption. The company must also use encryption keys that only specific employees can access. Which solution will meet these requirements with the LEAST effort?

- A. Use server-side encryption with AWS KMS keys (SSE-KMS) to encrypt the objects that contain customer information. Configure an IAM policy that restricts access to the KMS keys that encrypt the objects.
- B. Use server-side encryption with Amazon S3 managed keys (SSE-S3) to encrypt the objects that contain customer information. Configure an IAM policy that restricts access to the Amazon S3 managed keys that encrypt the objects.
- C. Use an AWS CloudHSM cluster to store the encryption keys. Configure the process that writes to Amazon S3 to make calls to CloudHSM to encrypt and decrypt the objects. Deploy an IAM policy that restricts access to the CloudHSM cluster.
- D. Use server-side encryption with customer-provided keys (SSE-C) to encrypt the objects that contain customer information. Restrict access to the keys that encrypt the objects.

Answer: A

Explanation:

Option C is the best solution to meet the requirements with the least effort because server-side encryption with AWS KMS keys (SSE-KMS) is a feature that allows you to encrypt data at rest in Amazon S3 using keys managed by AWS Key Management Service (AWS KMS). AWS KMS is a fully managed service that enables you to create and manage encryption keys for your AWS services and applications. AWS KMS also allows you to define granular access policies for your keys, such as who can use them to encrypt and decrypt data, and under what conditions. By using SSE-KMS, you can protect your S3 objects by using encryption keys that only specific employees can access, without having to manage the encryption and decryption process yourself.

Option A is not a good solution because it involves using AWS CloudHSM, which is a service that provides hardware security modules (HSMs) in the AWS Cloud. AWS CloudHSM allows you to generate and use your own encryption keys on dedicated hardware that is compliant with various standards and regulations.

However, AWS CloudHSM is not a fully managed service and requires more effort to set up and maintain than AWS KMS.

Moreover, AWS CloudHSM does not integrate with Amazon S3, so you have to configure the process that writes to S3 to make calls to CloudHSM to encrypt and decrypt the objects, which adds complexity and latency to the data protection process.

Option B is not a good solution because it involves using server-side encryption with customer-provided keys (SSE-C), which is a feature that allows you to encrypt data at rest in Amazon S3 using keys that you provide and manage yourself. SSE-C requires you to send your encryption key along with each request to upload or retrieve an object. However, SSE-C does not provide any mechanism to restrict access to the keys that encrypt the objects, so you have to implement your own key management and access control system, which adds more effort and risk to the data protection process.

Option D is not a good solution because it involves using server-side encryption with Amazon S3 managed keys (SSE-S3), which is a feature that allows you to encrypt data at rest in Amazon S3 using keys that are managed by Amazon S3. SSE-S3 automatically encrypts and decrypts your objects as they are uploaded and downloaded from S3. However, SSE-S3 does not allow you to control who can access the encryption keys or under what conditions. SSE-S3 uses a single encryption key for each S3 bucket, which is shared by all users who have access to the bucket. This means that you cannot restrict access to the keys that encrypt the objects by specific employees, which does not meet the requirements.

AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide

Protecting Data Using Server-Side Encryption with AWS KMS-Managed Encryption Keys (SSE-KMS) - Amazon Simple Storage Service

What is AWS Key Management Service? - AWS Key Management Service

What is AWS CloudHSM? - AWS CloudHSM

Protecting Data Using Server-Side Encryption with Customer-Provided Encryption Keys (SSE-C) - Amazon Simple Storage Service

Protecting Data Using Server-Side Encryption with Amazon S3-Managed Encryption Keys (SSE-S3) - Amazon Simple Storage Service

NEW QUESTION # 173

A data engineer needs to create a new empty table in Amazon Athena that has the same schema as an existing table named old-table.

Which SQL statement should the data engineer use to meet this requirement?

- A.

```
INSERT INTO new_table SELECT * FROM old_table;
```
- B.

```
CREATE TABLE new_table (LIKE old_table);
```
- C.

```
CREATE TABLE new_table AS (SELECT * FROM old_table) WITH NO DATA;
```

- D.

```
CREATE TABLE new_table AS SELECT * FROM old_table;
```

Answer: C

Explanation:

Problem Analysis:

The goal is to create a new empty table in Athena with the same schema as an existing table (old_table).

The solution must avoid copying any data.

Key Considerations:

CREATE TABLE AS (CTAS) is commonly used in Athena for creating new tables based on an existing table.

Adding the WITH NO DATA clause ensures only the schema is copied, without transferring any data.

Solution Analysis:

Option A: Copies both schema and data. Does not meet the requirement for an empty table.

Option B: Inserts data into an existing table, which does not create a new table.

Option C: Creates an empty table but does not copy the schema.

Option D: Creates a new table with the same schema and ensures it is empty by using WITH NO DATA.

Final Recommendation:

Use D. CREATE TABLE new_table AS (SELECT * FROM old_table) WITH NO DATA to create an empty table with the same schema.

Reference:

Athena CTAS Queries

CREATE TABLE Statement in Athena

NEW QUESTION # 174

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