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## Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q93-Q98):

### NEW QUESTION # 93

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

**Answer: B**

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 # 94

A company stores customer data in an Amazon S3 bucket. Multiple teams in the company want to use the customer data for downstream analysis. The company needs to ensure that the teams do not have access to personally identifiable information (PII) about the customers.

Which solution will meet this requirement with LEAST operational overhead?

- A. Use Amazon Kinesis Data Firehose and Amazon Comprehend to detect and remove PII.
- B. Use Amazon Macie to create and run a sensitive data discovery job to detect and remove PII.
- **C. Use an AWS Glue DataBrew job to store the PII data in a second S3 bucket. Perform analysis on the data that remains in the original S3 bucket.**
- D. Use S3 Object Lambda to access the data, and use Amazon Comprehend to detect and remove PII.

**Answer: C**

Explanation:

Step 1: Understanding the Data Use Case

The company has data stored in an Amazon S3 bucket and needs to provide teams access for analysis, ensuring that PII data is not included in the analysis. The solution should be simple to implement and maintain, ensuring minimal operational overhead.

Step 2: Why Option D is Correct

Option D (AWS Glue DataBrew) allows you to visually prepare and transform data without needing to write code. By using a DataBrew job, the company can:

Automatically detect and separate PII data from non-PII data.

Store PII data in a second S3 bucket for security, while keeping the original S3 bucket clean for analysis.

This approach keeps operational overhead low by utilizing DataBrew's pre-built transformations and the easy-to-use interface for non-technical users. It also ensures compliance by separating sensitive PII data from the main dataset.

Step 3: Why Other Options Are Not Ideal

Option A (Amazon Macie) is a powerful tool for detecting sensitive data, but Macie doesn't inherently remove or mask PII. You would still need additional steps to clean the data after Macie identifies PII.

Option B (S3 Object Lambda with Amazon Comprehend) introduces more complexity by requiring custom logic at the point of data access. Amazon Comprehend can detect PII, but using S3 Object Lambda to filter data would involve more overhead.

Option C (Kinesis Data Firehose and Comprehend) is more suitable for real-time streaming data use cases rather than batch analysis. Setting up and managing a streaming solution like Kinesis adds unnecessary complexity.

Conclusion:

Using AWS Glue DataBrew provides a low-overhead, no-code solution to detect and separate PII data, ensuring the analysis teams only have access to non-sensitive data. This approach is simple, compliant, and easy to manage compared to other options.

### NEW QUESTION # 95

A company uses Amazon S3 buckets, AWS Glue tables, and Amazon Athena as components of a data lake.

Recently, the company expanded its sales range to multiple new states. The company wants to introduce state names as a new partition to the existing S3 bucket, which is currently partitioned by date.

The company needs to ensure that additional partitions will not disrupt daily synchronization between the AWS Glue Data Catalog and the S3 buckets.

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

- A. Schedule an AWS Glue crawler to periodically update the Data Catalog.
- B. Run an MSCK REPAIR TABLE command in Athena.
- C. Run a REFRESH TABLE command in Athena.
- D. Use the AWS Glue API to manually update the Data Catalog.

**Answer: A**

Explanation:

Scheduling an AWS Glue crawler to periodically update the Data Catalog automates the process of detecting new partitions and updating the catalog, which minimizes manual maintenance and operational overhead.

### NEW QUESTION # 96

A company has a production AWS account that runs company workloads. The company's security team created a security AWS account to store and analyze security logs from the production AWS account. The security logs in the production AWS account are stored in Amazon CloudWatch Logs.

The company needs to use Amazon Kinesis Data Streams to deliver the security logs to the security AWS account.

Which solution will meet these requirements?

- A. Create a destination data stream in the security AWS account. Create an IAM role and a trust policy to grant CloudWatch Logs the permission to put data into the stream. Create a subscription filter in the production AWS account.
- B. Create a destination data stream in the security AWS account. Create an IAM role and a trust policy to grant CloudWatch Logs the permission to put data into the stream. Create a subscription filter in the security AWS account.
- C. Create a destination data stream in the production AWS account. In the production AWS account, create an IAM role that has cross-account permissions to Kinesis Data Streams in the security AWS account.
- D. Create a destination data stream in the production AWS account. In the security AWS account, create an IAM role that has cross-account permissions to Kinesis Data Streams in the production AWS account.

**Answer: A**

Explanation:

Amazon Kinesis Data Streams is a service that enables you to collect, process, and analyze real-time streaming data. You can use Kinesis Data Streams to ingest data from various sources, such as Amazon CloudWatch Logs, and deliver it to different destinations, such as Amazon S3 or Amazon Redshift. To use Kinesis Data Streams to deliver the security logs from the production AWS account to the security AWS account, you need to create a destination data stream in the security AWS account. This data stream will receive the log data from the CloudWatch Logs service in the production AWS account. To enable this cross-account data delivery, you need to create an IAM role and a trust policy in the security AWS account. The IAM role defines the permissions that the CloudWatch Logs service needs to put data into the destination data stream. The trust policy allows the production AWS account to assume the IAM role. Finally, you need to create a subscription filter in the production AWS account. A subscription

filter defines the pattern to match log events and the destination to send the matching events. In this case, the destination is the destination data stream in the security AWS account. This solution meets the requirements of using Kinesis Data Streams to deliver the security logs to the security AWS account. The other options are either not possible or not optimal.

You cannot create a destination data stream in the production AWS account, as this would not deliver the data to the security AWS account. You cannot create a subscription filter in the security AWS account, as this would not capture the log events from the production AWS account. References:

\* Using Amazon Kinesis Data Streams with Amazon CloudWatch Logs

\* AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 3: Data Ingestion and Transformation, Section 3.3: Amazon Kinesis Data Streams

### NEW QUESTION # 97

A company stores sensitive data in an Amazon Redshift table. The company needs to give specific users the ability to access the sensitive data. The company must not create duplication in the data.

Customer support users must be able to see the last four characters of the sensitive data. Audit users must be able to see the full value of the sensitive data. No other users can have the ability to access the sensitive information.

Which solution will meet these requirements?

- **A. Create a dynamic data masking policy to allow access based on each user role. Create IAM roles that have specific access permissions. Attach the masking policy to the column that contains sensitive data.**
- B. Create a row-level security policy to allow access based on each user role. Create IAM roles that have specific access permissions. Attach the security policy to the table.
- C. Create an AWS Glue job to redact the sensitive data and to load the data into a new Redshift table.
- D. Enable metadata security on the Redshift cluster. Create IAM users and IAM roles for the customer support users and the audit users. Grant the IAM users and IAM roles permissions to view the metadata in the Redshift cluster.

**Answer: A**

Explanation:

Amazon Redshift supports dynamic data masking, which enables you to limit sensitive data visibility to specific users and roles without duplicating the data. This approach supports showing only parts of a column's values (e.g., last four digits) and full visibility for authorized roles (e.g., auditors).

"With dynamic data masking, you can control how much sensitive data a user sees in query results without changing the data in the table."

-Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf IAM roles are used to associate users with the appropriate masking rules, keeping security tight and avoiding the creation of duplicate data views or tables.

### NEW QUESTION # 98

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