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## Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q41-Q46):

### NEW QUESTION # 41

A company wants to implement real-time analytics capabilities. The company wants to use Amazon Kinesis Data Streams and Amazon Redshift to ingest and process streaming data at the rate of several gigabytes per second. The company wants to derive near real-time insights by using existing business intelligence (BI) and analytics tools.

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

- A. Connect Kinesis Data Streams to Amazon Kinesis Data Firehose. Use Kinesis Data Firehose to stage the data in Amazon S3. Use the COPY command to load the data from Amazon S3 to a table in Amazon Redshift.
- B. Use Kinesis Data Streams to stage data in Amazon S3. Use the COPY command to load data from Amazon S3 directly into Amazon Redshift to make the data immediately available for real-time analysis.

- C. Create an external schema in Amazon Redshift to map the data from Kinesis Data Streams to an Amazon Redshift object. Create a materialized view to read data from the stream. Set the materialized view to auto refresh.
- D. Access the data from Kinesis Data Streams by using SQL queries. Create materialized views directly on top of the stream. Refresh the materialized views regularly to query the most recent stream data.

**Answer: C**

Explanation:

This solution meets the requirements of implementing real-time analytics capabilities with the least operational overhead. By creating an external schema in Amazon Redshift, you can access the data from Kinesis Data Streams using SQL queries without having to load the data into the cluster. By creating a materialized view on top of the stream, you can store the results of the query in the cluster and make them available for analysis. By setting the materialized view to auto refresh, you can ensure that the view is updated with the latest data from the stream at regular intervals. This way, you can derive near real-time insights by using existing BI and analytics tools. Reference:

Amazon Redshift streaming ingestion

Creating an external schema for Amazon Kinesis Data Streams

Creating a materialized view for Amazon Kinesis Data Streams

#### NEW QUESTION # 42

A data engineer is using Amazon Athena to analyze sales data that is in Amazon S3. The data engineer writes a query to retrieve sales amounts for 2023 for several products from a table named sales\_data. However, the query does not return results for all of the products that are in the sales\_data table. The data engineer needs to troubleshoot the query to resolve the issue.

The data engineer's original query is as follows:

```
SELECT product_name, sum(sales_amount)
```

```
FROM sales_data
```

```
WHERE year = 2023
```

```
GROUP BY product_name
```

How should the data engineer modify the Athena query to meet these requirements?

- A. Change WHERE year = 2023 to WHERE extract(year FROM sales\_data) = 2023.
- B. Remove the GROUP BY clause
- C. Replace sum(sales amount) with count(\*) for the aggregation.
- D. Add HAVING sum(sales amount) > 0 after the GROUP BY clause.

**Answer: A**

Explanation:

The original query does not return results for all of the products because the year column in the sales\_data table is not an integer, but a timestamp. Therefore, the WHERE clause does not filter the data correctly, and only returns the products that have a null value for the year column. To fix this, the data engineer should use the extract function to extract the year from the timestamp and compare it with 2023. This way, the query will return the correct results for all of the products in the sales\_data table. The other options are either incorrect or irrelevant, as they do not address the root cause of the issue. Replacing sum with count does not change the filtering condition, adding HAVING clause does not affect the grouping logic, and removing the GROUP BY clause does not solve the problem of missing products. References:

\* Troubleshooting JSON queries - Amazon Athena (Section: JSON related errors)

\* When I query a table in Amazon Athena, the TIMESTAMP result is empty (Section: Resolution)

\* AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide (Chapter 7, page 197)

#### NEW QUESTION # 43

A company wants to migrate data from an Amazon RDS for PostgreSQL DB instance in the eu-east-1 Region of an AWS account named Account\_A.

The company will migrate the data to an Amazon Redshift cluster in the eu-west-1 Region of an AWS account named Account\_B.

Which solution will give AWS Database Migration Service (AWS DMS) the ability to replicate data between two data stores?

- A. Set up an AWS DMS replication instance in Account\_A in eu-east-1.
- B. Set up an AWS DMS replication instance in a new AWS account in eu-west-1
- C. Set up an AWS DMS replication instance in Account\_B in eu-west-1.
- D. Set up an AWS DMS replication instance in Account\_B in eu-east-1.

**Answer: C**

Explanation:

To migrate data from an Amazon RDS for PostgreSQL DB instance in the eu-east-1 Region (Account\_A) to an Amazon Redshift cluster in the eu-west-1 Region (Account\_B), AWS DMS needs a replication instance located in the target region (in this case, eu-west-1) to facilitate the data transfer between regions.

Option A: Set up an AWS DMS replication instance in Account\_B in eu-west-1.

Placing the DMS replication instance in the target account and region (Account\_B in eu-west-1) is the most efficient solution. The replication instance can connect to the source RDS PostgreSQL in eu-east-1 and migrate the data to the Redshift cluster in eu-west-1. This setup ensures data is replicated across AWS accounts and regions.

Options B, C, and D place the replication instance in either the wrong account or region, which increases complexity without adding any benefit.

Reference:

AWS Database Migration Service (DMS) Documentation  
Cross-Region and Cross-Account Replication

#### NEW QUESTION # 44

A retail company stores customer data in an Amazon S3 bucket. Some of the customer data contains personally identifiable information (PII) about customers. The company must not share PII data with business partners.

A data engineer must determine whether a dataset contains PII before making objects in the dataset available to business partners. Which solution will meet this requirement with the LEAST manual intervention?

- A. Configure AWS CloudTrail to monitor S3 PUT operations. Inspect the CloudTrail trails to identify operations that save PII.
- **B. Configure the S3 bucket and S3 objects to allow access to Amazon Macie. Use automated sensitive data discovery in Macie.**
- C. Create a table in AWS Glue Data Catalog. Write custom SQL queries to identify PII in the table. Use Amazon Athena to run the queries.
- D. Create an AWS Lambda function to identify PII in S3 objects. Schedule the function to run periodically.

**Answer: B**

Explanation:

Amazon Macie is a fully managed data security and privacy service that uses machine learning to automatically discover, classify, and protect sensitive data in AWS, such as PII. By configuring Macie for automated sensitive data discovery, the company can minimize manual intervention while ensuring PII is identified before data is shared.

#### NEW QUESTION # 45

An application uses an AWS Lambda function that is configured with managed runtimes. The Lambda function successfully writes logs to the default Amazon CloudWatch Logs log group. A data engineer wants to modify the logging behavior to show only ERROR level logs for application logs and WARN level logs for system logs.

Which solution will meet these requirements?

- A. Add additional permissions to the Lambda execution role.
- B. Configure the Lambda function to send logs to a custom log group.
- C. Set the log level to ERROR in the Lambda function code.
- **D. Configure the Lambda function to use the JSON log format.**

**Answer: D**

Explanation:

Option C is correct because AWS Lambda's advanced logging controls support separate application log level and system log level filtering, but AWS documentation states that for Lambda to filter application logs according to their log level, the function must use JSON formatted logs. AWS also documents that in the advanced logging configuration you can choose a log level such as ERROR for application logs and WARN for system logs. Therefore, configuring the function to use JSON log format is the necessary step that enables the required log-level filtering behavior.

Option A is irrelevant because the function already writes logs successfully. Option B alone is insufficient because changing code-level logging does not configure Lambda's separate system log filtering behavior, and Lambda's application log filtering relies on structured JSON logs. Option D changes the log destination but does not implement the required filtering levels. The official Lambda

documentation makes clear that JSON log format is the enabling configuration for this feature, so that is the correct answer.

## NEW QUESTION # 46

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