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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q175-Q180):

NEW QUESTION # 175
A retail company uses an Amazon Redshift data warehouse and an Amazon S3 bucket. The company ingests retail order data into the S3 bucket every day.
The company stores all order data at a single path within the S3 bucket. The data has more than 100 columns. The company ingests the order data from a third-party application that generates more than 30 files in CSV format every day. Each CSV file is between 50 and 70 MB in size.
The company uses Amazon Redshift Spectrum to run queries that select sets of columns. Users aggregate metrics based on daily orders. Recently, users have reported that the performance of the queries has degraded. A data engineer must resolve the performance issues for the queries.
Which combination of steps will meet this requirement with LEAST developmental effort? (Select TWO.)

- A. Develop an AWS Glue ETL job to convert the multiple daily CSV files to one file for each day.
- B. Load the JSON data into the Amazon Redshift table in a SUPER type column.
- C. Configure the third-party application to create the files in JSON format.
- D. Partition the order data in the S3 bucket based on order date.
- E. Configure the third-party application to create the files in a columnar format.

Answer: D,E

Explanation:

The performance issue in Amazon Redshift Spectrum queries arises due to the nature of CSV files, which are row-based storage formats. Spectrum is more optimized for columnar formats, which significantly improve performance by reducing the amount of data scanned. Also, partitioning data based on relevant columns like order date can further reduce the amount of data scanned, as queries can focus only on the necessary partitions.

A . Configure the third-party application to create the files in a columnar format:

Columnar formats (like Parquet or ORC) store data in a way that is optimized for analytical queries because they allow queries to scan only the columns required, rather than scanning all columns in a row-based format like CSV.

Amazon Redshift Spectrum works much more efficiently with columnar formats, reducing the amount of data that needs to be scanned, which improves query performance.

Reference:

C . Partition the order data in the S3 bucket based on order date:

Partitioning the data on columns like order date allows Redshift Spectrum to skip scanning unnecessary partitions, leading to improved query performance.

By organizing data into partitions, you minimize the number of files Spectrum has to read, further optimizing performance.

Alternatives Considered:

B (Develop an AWS Glue ETL job): While consolidating files can improve performance by reducing the number of small files (which can be inefficient to process), it adds additional ETL complexity. Switching to a columnar format (Option A) and partitioning (Option C) provides more significant performance improvements with less development effort.

D and E (JSON-related options): Using JSON format or the SUPER type in Redshift introduces complexity and isn't as efficient as the proposed solutions, especially since JSON is not a columnar format.

Amazon Redshift Spectrum Documentation

Columnar Formats and Data Partitioning in S3

NEW QUESTION # 176

A company is developing an application that runs on Amazon EC2 instances. Currently, the data that the application generates is temporary. However, the company needs to persist the data, even if the EC2 instances are terminated.

A data engineer must launch new EC2 instances from an Amazon Machine Image (AMI) and configure the instances to preserve the data.

Which solution will meet this requirement?

- A. Launch new EC2 instances by using an AMI that is backed by an EC2 instance store volume. Attach an Amazon Elastic Block Store (Amazon EBS) volume to contain the application data. Apply the default settings to the EC2 instances.
- B. Launch new EC2 instances by using an AMI that is backed by an EC2 instance store volume that contains the application data. Apply the default settings to the EC2 instances.
- C. Launch new EC2 instances by using an AMI that is backed by a root Amazon Elastic Block Store (Amazon EBS) volume that contains the application data. Apply the default settings to the EC2 instances.
- D. Launch new EC2 instances by using an AMI that is backed by an Amazon Elastic Block Store (Amazon EBS) volume. Attach an additional EC2 instance store volume to contain the application data. Apply the default settings to the EC2 instances.

Answer: A

Explanation:

Amazon EC2 instances can use two types of storage volumes: instance store volumes and Amazon EBS volumes. Instance store volumes are ephemeral, meaning they are only attached to the instance for the duration of its life cycle. If the instance is stopped, terminated, or fails, the data on the instance store volume is lost. Amazon EBS volumes are persistent, meaning they can be detached from the instance and attached to another instance, and the data on the volume is preserved. To meet the requirement of persisting the data even if the EC2 instances are terminated, the data engineer must use Amazon EBS volumes to store the application data. The solution is to launch new EC2 instances by using an AMI that is backed by an EC2 instance store volume, which is the default option for most AMIs. Then, the data engineer must attach an Amazon EBS volume to each instance and configure the application to write the data to the EBS volume. This way, the data will be saved on the EBS volume and can be accessed by another instance if

needed. The data engineer can apply the default settings to the EC2 instances, as there is no need to modify the instance type, security group, or IAM role for this solution. The other options are either not feasible or not optimal. Launching new EC2 instances by using an AMI that is backed by an EC2 instance store volume that contains the application data (option A) or by using an AMI that is backed by a root Amazon EBS volume that contains the application data (option B) would not work, as the data on the AMI would be outdated and overwritten by the new instances. Attaching an additional EC2 instance store volume to contain the application data (option D) would not work, as the data on the instance store volume would be lost if the instance is terminated.
Reference:
Amazon EC2 Instance Store
Amazon EBS Volumes
AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 2: Data Store Management, Section 2.1: Amazon EC2

NEW QUESTION # 177

A data engineer must manage the ingestion of real-time streaming data into AWS. The data engineer wants to perform real-time analytics on the incoming streaming data by using time-based aggregations over a window of up to 30 minutes. The data engineer needs a solution that is highly fault tolerant.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Use Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) to analyze the data that might occasionally contain duplicates by using multiple types of aggregations.
- B. Use an AWS Lambda function that includes both the business and the analytics logic to perform aggregations for a tumbling window of up to 30 minutes, based on the event timestamp.
- C. Use an AWS Lambda function that includes both the business and the analytics logic to perform time-based aggregations over a window of up to 30 minutes for the data in Amazon Kinesis Data Streams.
- D. Use Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) to analyze the data by using multiple types of aggregations to perform time-based analytics over a window of up to 30 minutes.

Answer: C

Explanation:
This solution meets the requirements of managing the ingestion of real-time streaming data into AWS and performing real-time analytics on the incoming streaming data with the least operational overhead. Amazon Managed Service for Apache Flink is a fully managed service that allows you to run Apache Flink applications without having to manage any infrastructure or clusters. Apache Flink is a framework for stateful stream processing that supports various types of aggregations, such as tumbling, sliding, and session windows, over streaming data. By using Amazon Managed Service for Apache Flink, you can easily connect to Amazon Kinesis Data Streams as the source and sink of your streaming data, and perform time-based analytics over a window of up to 30 minutes. This solution is also highly fault tolerant, as Amazon Managed Service for Apache Flink automatically scales, monitors, and restarts your Flink applications in case of failures. Reference:
Amazon Managed Service for Apache Flink
Apache Flink
Window Aggregations in Flink

NEW QUESTION # 178

A company wants to migrate an application and an on-premises Apache Kafka server to AWS. The application processes incremental updates that an on-premises Oracle database sends to the Kafka server. The company wants to use the replatform migration strategy instead of the refactor strategy.
Which solution will meet these requirements with the LEAST management overhead?

- A. Amazon Managed Streaming for Apache Kafka (Amazon MSK) provisioned cluster
- B. Amazon Kinesis Data Streams
- C. Amazon Managed Streaming for Apache Kafka (Amazon MSK) Serverless
- D. Amazon Data Firehose

Answer: C

Explanation:
* Problem Analysis:
* The company needs to migrate both an application and an on-premises Apache Kafka server to AWS.
* Incremental updates from an on-premises Oracle database are processed by Kafka.

* The solution must follow a replatform migration strategy, prioritizing minimal changes and low management overhead.
* Key Considerations:
* Replatform Strategy: This approach keeps the application and architecture as close to the original as possible, reducing the need for refactoring.
* The solution must provide a managed Kafka service to minimize operational burden.
* Low overhead solutions like serverless services are preferred.
* Solution Analysis:
* Option A: Kinesis Data Streams
* Kinesis Data Streams is an AWS-native streaming service but is not a direct substitute for Kafka.
* This option would require significant application refactoring, which does not align with the replatform strategy.
* Option B: MSK Provisioned Cluster
* Managed Kafka service with fully configurable clusters.
* Provides the same Kafka APIs but requires cluster management (e.g., scaling, patching), increasing management overhead.
* Option C: Amazon Kinesis Data Firehose
* Kinesis Data Firehose is designed for data delivery rather than real-time streaming and processing.
* Not suitable for Kafka-based applications.
* Option D: MSK Serverless
* MSK Serverless eliminates the need for cluster management while maintaining compatibility with Kafka APIs.
* Automatically scales based on workload, reducing operational overhead.
* Ideal for replatform migrations, as it requires minimal changes to the application.
* Final Recommendation:
* Amazon MSK Serverless is the best solution for migrating the Kafka server and application with minimal changes and the least management overhead.
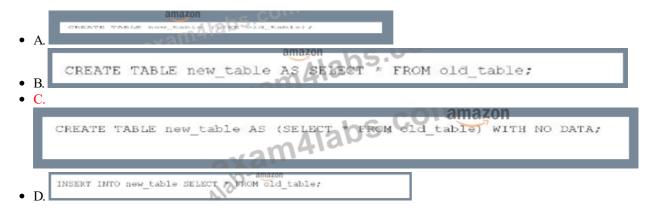:
Amazon MSK Serverless Overview
Comparison of Amazon MSK and Kinesis

NEW QUESTION # 179
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.
```
amazon
CREATE TABLE new_table (LIKE old_table);
```

* B.
```
amazon
CREATE TABLE new_table AS SELECT * FROM old_table;
```

* C.

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

* D.
```
amazon
INSERT INTO new_table 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.
Athena CTAS Queries
CREATE TABLE Statement in Athena

NEW QUESTION # 180

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