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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q48-Q53):

NEW QUESTION # 48

A data engineer configures a large number of AWS Glue jobs that all start up around the same time. All the jobs run for less than 1 hour in the same subnet of the same VPC. All the AWS Glue jobs run on a G.1X worker type.

Some of the jobs occasionally fail with the following error: "The specified subnet does not have enough free addresses to satisfy the

request." What is the likely root cause of the error?

- A. There are not enough IP addresses in the VPC.
- **B. There are not enough IP addresses in the subnet.**
- C. AWS Glue does not have the correct IAM permissions to add additional IP addresses to the subnet.
- D. The G.1X worker type cannot access the subnet.

Answer: B

Explanation:

Option A is correct because when many AWS Glue jobs start at the same time in the same subnet, Glue needs to create network interfaces in that subnet. If the subnet does not have enough free private IP addresses available, jobs can fail with exactly this type of error. AWS service documentation for VPC-based managed data services consistently notes that if there is no available free IP address in a specified subnet, the service cannot create or add the required ENIs and the workload can fail or degrade.

This is a subnet-level exhaustion issue, not a VPC-wide issue. A VPC can still have free addresses in other subnets while the specific subnet chosen for the jobs is out of usable addresses. That makes D incorrect.

Option B is incorrect because G.1X is a valid Glue worker type and does not inherently prevent subnet access.

Option C is also incorrect because the error is about address availability, not IAM authorization. In practice, this problem is usually resolved by using a larger subnet or spreading workloads across additional subnets so enough IPs are available when multiple Glue jobs launch concurrently. This aligns with the exam's focus on networking capacity planning for managed data services.

NEW QUESTION # 49

A data engineer maintains a materialized view that is based on an Amazon Redshift database. The view has a column named `load_date` that stores the date when each row was loaded.

The data engineer needs to reclaim database storage space by deleting all the rows from the materialized view.

Which command will reclaim the MOST database storage space?

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

Answer: B

Explanation:

To reclaim the most storage space from a materialized view in Amazon Redshift, you should use a DELETE operation that removes all rows from the view. The most efficient way to remove all rows is to use a condition that always evaluates to true, such as `1=1`. This will delete all rows without needing to evaluate each row individually based on specific column values like `load_date`.

* Option A: `DELETE FROM materialized_view_name WHERE 1=1`; This statement will delete all rows in the materialized view and free up the space. Since materialized views in Redshift store precomputed data, performing a DELETE operation will remove all stored rows.

Other options either involve inappropriate SQL statements (e.g., VACUUM in option C is used for reclaiming storage space in tables, not materialized views), or they don't remove data effectively in the context of a materialized view (e.g., TRUNCATE cannot be used directly on a materialized view).

References:

* Amazon Redshift Materialized Views Documentation

* Deleting Data from Redshift

NEW QUESTION # 50

A company needs to store semi-structured transactional data in a serverless database.

The application writes data infrequently but reads it frequently, with millisecond retrieval required.

- A. Store the data in an Amazon S3 Standard bucket. Enable S3 Transfer Acceleration.
- **B. Store the data in an Amazon DynamoDB table. Configure a DynamoDB Accelerator (DAX) cache.**
- C. Store the data in an Amazon S3 Apache Iceberg table. Enable S3 Transfer Acceleration.
- D. Store the data in an Amazon RDS for MySQL cluster. Configure RDS Optimized Reads.

Answer: B

Explanation:

Amazon DynamoDB is a serverless, low-latency, NoSQL database ideal for semi-structured data.

Adding DynamoDB Accelerator (DAX) provides microsecond response times for read-heavy workloads.

"For applications requiring millisecond or sub-millisecond reads with serverless operation, use DynamoDB with DAX caching."

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NEW QUESTION # 51

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

Answer: A

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. References:

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 # 52

A financial company recently added more features to its mobile app. The new features required the company to create a new topic in an existing Amazon Managed Streaming for Apache Kafka (Amazon MSK) cluster.

A few days after the company added the new topic, Amazon CloudWatch raised an alarm on the RootDiskUsed metric for the MSK cluster.

How should the company address the CloudWatch alarm?

- **A. Expand the storage of the MSK broker. Configure the MSK cluster storage to expand automatically.**

- B. Expand the storage of the Apache ZooKeeper nodes.
- C. Specify the Target-Volume-in-GiB parameter for the existing topic.
- D. Update the MSK broker instance to a larger instance type. Restart the MSK cluster.

Answer: A

Explanation:

The RootDiskUsed metric for the MSK cluster indicates that the storage on the broker is reaching its capacity. The best solution is to expand the storage of the MSK broker and enable automatic storage expansion to prevent future alarms.

* Expand MSK Broker Storage:

* AWS Managed Streaming for Apache Kafka (MSK) allows you to expand the broker storage to accommodate growing data volumes. Additionally, auto-expansion of storage can be configured to ensure that storage grows automatically as the data increases.

NEW QUESTION # 53

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