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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 (Q167-Q172):

NEW QUESTION # 167

A data engineer notices slow query performance on a highly partitioned table that is in Amazon Athena. The table contains daily data for the previous 5 years, partitioned by date. The data engineer wants to improve query performance and to automate partition management. Which solution will meet these requirements?

- A. Reduce the number of partitions by changing the partitioning schema from dairy to monthly granularity.
- B. Use partition projection in Athena. Configure the table properties by using a date range from 5 years ago to the present.
- C. Use an AWS Lambda function that runs daily. Configure the function to manually create new partitions in AW5 Glue for each day's data.
- D. Increase the processing capacity of Athena queries by allocating more compute resources.

Answer: B

NEW QUESTION # 168

A data engineer must orchestrate a series of Amazon Athena queries that will run every day. Each query can run for more than 15 minutes.
Which combination of steps will meet these requirements MOST cost-effectively? (Choose two.)

- A. Use Amazon Managed Workflows for Apache Airflow (Amazon MWAA) to orchestrate the Athena queries in AWS Batch.
- B. Use an AWS Glue Python shell script to run a sleep timer that checks every 5 minutes to determine whether the current Athena query has finished running successfully. Configure the Python shell script to invoke the next query when the current query has finished running.
- C. Use an AWS Glue Python shell job and the Athena Boto3 client start_query_execution API call to invoke the Athena queries programmatically.
- D. Use an AWS Lambda function and the Athena Boto3 client start_query_execution API call to invoke the Athena queries programmatically.
- E. Create an AWS Step Functions workflow and add two states. Add the first state before the Lambda function. Configure the second state as a Wait state to periodically check whether the Athena query has finished using the Athena Boto3 get_query_execution API call. Configure the workflow to invoke the next query when the current query has finished running.

Answer: D,E

Explanation:
Option A and B are the correct answers because they meet the requirements most cost-effectively. Using an AWS Lambda function and the Athena Boto3 client start_query_execution API call to invoke the Athena queries programmatically is a simple and scalable way to orchestrate the queries. Creating an AWS Step Functions workflow and adding two states to check the query status and invoke the next query is a reliable and efficient way to handle the long-running queries.
Option C is incorrect because using an AWS Glue Python shell job to invoke the Athena queries programmatically is more expensive than using a Lambda function, as it requires provisioning and running a Glue job for each query.
Option D is incorrect because using an AWS Glue Python shell script to run a sleep timer that checks every 5 minutes to determine whether the current Athena query has finished running successfully is not a cost-effective or reliable way to orchestrate the queries, as it wastes resources and time.
Option E is incorrect because using Amazon Managed Workflows for Apache Airflow (Amazon MWAA) to orchestrate the Athena queries in AWS Batch is an overkill solution that introduces unnecessary complexity and cost, as it requires setting up and managing an Airflow environment and an AWS Batch compute environment.
Reference:
AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 5: Data Orchestration, Section 5.2: AWS Lambda, Section 5.3: AWS Step Functions, Pages 125-135 Building Batch Data Analytics Solutions on AWS, Module 5: Data Orchestration, Lesson 5.1: AWS Lambda, Lesson 5.2: AWS Step Functions, Pages 1-15 AWS Documentation Overview, AWS

Lambda Developer Guide, Working with AWS Lambda Functions, Configuring Function Triggers, Using AWS Lambda with Amazon Athena, Pages 1-4 AWS Documentation Overview, AWS Step Functions Developer Guide, Getting Started, Tutorial: Create a Hello World Workflow, Pages 1-8

NEW QUESTION # 169

A data engineer has two datasets that contain sales information for multiple cities and states. One dataset is named reference, and the other dataset is named primary.

The data engineer needs a solution to determine whether a specific set of values in the city and state columns of the primary dataset exactly match the same specific values in the reference dataset. The data engineer wants to useData Quality Definition Language (DQDL)rules in an AWS Glue Data Quality job.

Which rule will meet these requirements?

- A. DatasetMatch "reference" "city->ref_city, state->ref_state" = 100
- B. ReferentialIntegrity "city,state" "reference.{ref_city,ref_state}" = 100
- C. DatasetMatch "reference" "city->ref_city, state->ref_state" = 1.0
- D. ReferentialIntegrity "city,state" "reference.{ref_city,ref_state}" = 1.0

Answer: C

Explanation:

TheDatasetMatchrule in DQDL checks for full value equivalence between mapped fields. A value of1.0 indicates a100% match. The correct syntax and metric for an exact match scenario are:

"Use DatasetMatch when comparing mapped fields between two datasets. The comparison score of 1.0 confirms a perfect match."

-Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf Options with "100" use incorrect syntax since DQDL usesfloating-point scores(e.g., 1.0, 0.95), not percentages.

NEW QUESTION # 170

A data engineer needs to build an enterprise data catalog based on the company's Amazon S3 buckets and Amazon RDS databases. The data catalog must include storage format metadata for the data in the catalog.

Which solution will meet these requirements with the LEAST effort?

- A. Use scripts to scan data elements and to assign data classifications based on the format of the data.
- B. Use an AWS Glue crawler to build a data catalog. Use AWS Glue crawler classifiers to recognize the format of data and store the format in the catalog.
- C. Use Amazon Macie to build a data catalog and to identify sensitive data elements. Collect the data format information from Macie.
- D. Use an AWS Glue crawler to scan the S3 buckets and RDS databases and build a data catalog. Use data stewards to inspect the data and update the data catalog with the data format.

Answer: D

Explanation:

To build an enterprise data catalog with metadata for storage formats, the easiest and most efficient solution is using anAWS Glue crawler. The Glue crawler can scanAmazon S3buckets andAmazon RDSdatabases to automatically create a data catalog that includes metadata such as the schema and storage format (e.g., CSV, Parquet, etc.). By usingAWS Glue crawler classifiers, you can configure the crawler to recognize the format of the data and store this information directly in the catalog.

* Option B: Use an AWS Glue crawler to build a data catalog. Use AWS Glue crawler classifiers to recognize the format of data and store the format in the catalog.This option meets the requirements with the least effort because Glue crawlers automate the discovery and cataloging of data from multiple sources, including S3 and RDS, while recognizing various file formats via classifiers. Other options (A, C, D) involve additional manual steps, like having data stewards inspect the data, or using services likeAmazon Maciethat focus more on sensitive data detection rather than format cataloging.

References:

AWS Glue Crawler Documentation

AWS Glue Classifiers

NEW QUESTION # 171

A company plans to use Amazon Kinesis Data Firehose to store data in Amazon S3. The source data consists of 2 MB csv files.

The company must convert the .csv files to JSON format. The company must store the files in Apache Parquet format.
Which solution will meet these requirements with the LEAST development effort?

- A. Use Kinesis Data Firehose to invoke an AWS Lambda function that transforms the .csv files to JSON.
  Use Kinesis Data Firehose to store the files in Parquet format.
- B. Use Kinesis Data Firehose to invoke an AWS Lambda function that transforms the .csv files to JSON and stores the files in Parquet format.
- C. Use Kinesis Data Firehose to convert the csv files to JSON and to store the files in Parquet format.
- D. Use Kinesis Data Firehose to convert the csv files to JSON. Use an AWS Lambda function to store the files in Parquet format.

Answer: C

Explanation:
The company wants to use Amazon Kinesis Data Firehose to transform CSV files into JSON format and store the files in Apache Parquet format with the least development effort.
Option B: Use Kinesis Data Firehose to convert the CSV files to JSON and to store the files in Parquet format.
Kinesis Data Firehose supports data format conversion natively, including converting incoming CSV data to JSON format and storing the resulting files in Parquet format in Amazon S3. This solution requires the least development effort because it uses built-in transformation features of Kinesis Data Firehose.
Other options (A, C, D) involve invoking AWS Lambda functions, which would introduce additional complexity and development effort compared to Kinesis Data Firehose's native format conversion capabilities.
References:
Amazon Kinesis Data Firehose Documentation

NEW QUESTION # 172
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