DAS-C01 Q&As

AWS Certified Data Analytics - Specialty (DAS-C01)

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QUESTION 1

A company uses Amazon Redshift for data analysis. The data is not encrypted at rest. A data analytics specialist must implement a solution to encrypt the data at rest.

Which solution will meet this requirement with the LEAST operational overhead?

A. Use the ALTER TABLE command with the ENCODE option to update existing private information columns in the Amazon Redshift tables to use LZO encoding.

B. Export data from the existing Amazon Redshift cluster to Amazon S3 by using the UNLOAD command with the ENCRYPTED option. Create a new Amazon Redshift cluster with encryption enabled. Load data into the new cluster by using the COPY command.

C. Create a manual snapshot of the existing Amazon Redshift cluster. Restore the snapshot into a new Amazon Redshift cluster with encryption enabled.

D. Modify the existing Amazon Redshift cluster to use AWS Key Management Service (AWS KMS) encryption. Wait for the cluster to finish resizing.

Correct Answer: C

QUESTION 2

A company has a fitness tracker application that generates data from subscribers. The company needs real-time reporting on this data. The data is sent immediately, and the processing latency must be less than 1 second. The company wants to perform anomaly detection on the data as the data is collected. The company also requires a solution that minimizes operational overhead.

Which solution meets these requirements?

A. Amazon EMR cluster with Apache Spark streaming, Spark SQL, and Spark\\'s machine learning library (MLlib)

B. Amazon Kinesis Data Firehose with Amazon S3 and Amazon Athena

C. Amazon Kinesis Data Firehose with Amazon QuickSight

D. Amazon Kinesis Data Streams with Amazon Kinesis Data Analytics

Correct Answer: A

QUESTION 3

A media company is using Amazon QuickSight dashboards to visualize its national sales data. The dashboard is using a dataset with these fields: ID, date, time_zone, city, state, country, longitude, latitude, sales_volume, and number_of_items.

To modify ongoing campaigns, the company wants an interactive and intuitive visualization of which states across the country recorded a significantly lower sales volume compared to the national average.

Which addition to the company\\'s QuickSight dashboard will meet this requirement?

A. A geospatial color-coded chart of sales volume data across the country.

B. A pivot table of sales volume data summed up at the state level.

C. A drill-down layer for state-level sales volume data.

D. A drill through to other dashboards containing state-level sales volume data.

Correct Answer: B

Reference: https://docs.aws.amazon.com/quicksight/latest/user/pivot-table.html

QUESTION 4

A company has a process that writes two datasets in CSV format to an Amazon S3 bucket every 6 hours. The company needs to join the datasets, convert the data to Apache Parquet, and store the data within another bucket for users to query using Amazon Athena. The data also needs to be loaded to Amazon Redshift for advanced analytics. The company needs a solution that is resilient to the failure of any individual job component and can be restarted in case of an error.

Which solution meets these requirements with the LEAST amount of operational overhead?

A. Use AWS Step Functions to orchestrate an Amazon EMR cluster running Apache Spark. Use PySpark to generate data frames of the datasets in Amazon S3, transform the data, join the data, write the data back to Amazon S3, and load the data to Amazon Redshift.

B. Create an AWS Glue job using Python Shell that generates dynamic frames of the datasets in Amazon S3, transforms the data, joins the data, writes the data back to Amazon S3, and loads the data to Amazon Redshift. Use an AWS Glue workflow to orchestrate the AWS Glue job at the desired frequency.

C. Use AWS Step Functions to orchestrate the AWS Glue job. Create an AWS Glue job using Python Shell that creates dynamic frames of the datasets in Amazon S3, transforms the data, joins the data, writes the data back to Amazon S3, and loads the data to Amazon Redshift.

D. Create an AWS Glue job using PySpark that creates dynamic frames of the datasets in Amazon S3, transforms the data, joins the data, writes the data back to Amazon S3, and loads the data to Amazon Redshift. Use an AWS Glue workflow to orchestrate the AWS Glue job.

Correct Answer: B

QUESTION 5

A marketing company has an application that stores event data in an Amazon RDS database. The company is replicating this data to Amazon Redshift for reporting and business intelligence (BI) purposes. New event data is continuously generated and ingested into the RDS database throughout the day and captured by a change data capture (CDC) replication task in AWS Database Migration Service (AWS DMS). The company requires that the new data be replicated to Amazon Redshift in near-real time.

Which solution meets these requirements?

A. Use Amazon Kinesis Data Streams as the destination of the CDC replication task in AWS DMS. Use an AWS Glue streaming job to read changed records from Kinesis Data Streams and perform an upsert into the Redshift cluster.

B. Use Amazon S3 as the destination of the CDC replication task in AWS DMS. Use the COPY command to load data into the Redshift cluster.

C. Use Amazon DynamoDB as the destination of the CDC replication task in AWS DMS. Use the COPY command to load data into the Redshift cluster.

D. Use Amazon Kinesis Data Firehose as the destination of the CDC replication task in AWS DMS. Use an AWS Glue streaming job to read changed records from Kinesis Data Firehose and perform an upsert into the Redshift cluster.

Correct Answer: D