DAS-C01 Q&As

AWS Certified Data Analytics - Specialty (DAS-C01)

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QUESTION 1

A transportation company uses IoT sensors attached to trucks to collect vehicle data for its global delivery fleet. The company currently sends the sensor data in small .csv files to Amazon S3. The files are then loaded into a 10-node Amazon Redshift cluster with two slices per node and queried using both Amazon Athena and Amazon Redshift. The company wants to optimize the files to reduce the cost of querying and also improve the speed of data loading into the Amazon Redshift cluster.

Which solution meets these requirements?

A. Use AWS Glue to convert all the files from .csv to a single large Apache Parquet file. COPY the file into Amazon Redshift and query the file with Athena from Amazon S3.

B. Use Amazon EMR to convert each .csv file to Apache Avro. COPY the files into Amazon Redshift and query the file with Athena from Amazon S3.

C. Use AWS Glue to convert the files from .csv to a single large Apache ORC file. COPY the file into Amazon Redshift and query the file with Athena from Amazon S3.

D. Use AWS Glue to convert the files from .csv to Apache Parquet to create 20 Parquet files. COPY the files into Amazon Redshift and query the files with Athena from Amazon S3.

Correct Answer: D

QUESTION 2

A company wants to build a real-time data processing and delivery solution for streaming data. The data is being streamed through an Amazon Kinesis data stream. The company wants to use an Apache Flink application to process the data before writing the data to another Kinesis data stream. The data must be stored in an Amazon S3 data lake every 60 seconds for further analytics.

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

A. Host the Flink application on an Amazon EMR cluster. Use Amazon Kinesis Data Firehose to write the data to Amazon S3.

B. Host the Flink application on Amazon Kinesis Data Analytics. Use AWS Glue to write the data to Amazon S3.

C. Host the Flink application on an Amazon EMR cluster. Use AWS Glue to write the data to Amazon S3.

D. Host the Flink application on Amazon Kinesis Data Analytics. Use Amazon Kinesis Data Firehose to write the data to Amazon S3.

Correct Answer: A

QUESTION 3

A company wants to use automatic machine learning (ML) to create and visualize forecasts of complex scenarios and trends. Which solution will meet these requirements with the LEAST management overhead?

A. Use an AWS Glue ML job to transform the data and create forecasts. Use Amazon QuickSight to visualize the data.

B. Use Amazon QuickSight to visualize the data. Use ML-powered forecasting in QuickSight to create forecasts.

C. Use a prebuilt ML AMI from the AWS Marketplace to create forecasts. Use Amazon QuickSight to visualize the data.

D. Use Amazon SageMaker inference pipelines to create and update forecasts. Use Amazon QuickSight to visualize the combined data.

Correct Answer: C

QUESTION 4

A manufacturing company uses Amazon S3 to store its data. The company wants to use AWS Lake Formation to provide granular-level security on those data assets. The data is in Apache Parquet format. The company has set a deadline for a consultant to build a data lake.

How should the consultant create the MOST cost-effective solution that meets these requirements?

A. Run Lake Formation blueprints to move the data to Lake Formation. Once Lake Formation has the data, apply permissions on Lake Formation.

B. To create the data catalog, run an AWS Glue crawler on the existing Parquet data. Register the Amazon S3 path and then apply permissions through Lake Formation to provide granular-level security.

C. Install Apache Ranger on an Amazon EC2 instance and integrate with Amazon EMR. Using Ranger policies, create role-based access control for the existing data assets in Amazon S3.

D. Create multiple IAM roles for different users and groups. Assign IAM roles to different data assets in Amazon S3 to create table-based and column-based access controls.

Correct Answer: C

QUESTION 5

A company has a marketing department and a finance department. The departments are storing data in Amazon S3 in their own AWS accounts in AWS Organizations. Both departments use AWS Lake Formation to catalog and secure their

data. The departments have some databases and tables that share common names.

The marketing department needs to securely access some tables from the finance department.

Which two steps are required for this process? (Choose two.)

A. The finance department grants Lake Formation permissions for the tables to the external account for the marketing department.

B. The finance department creates cross-account IAM permissions to the table for the marketing department role.

C. The marketing department creates an IAM role that has permissions to the Lake Formation tables.

Correct Answer: AB

Granting Lake Formation Permissions Creating an IAM role (AWS CLI)

Reference: https://docs.aws.amazon.com/lake-formation/latest/dg/lake-formation-permissions.html

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create_for-user.html