



# Amazon-Web-Services

## Exam Questions DAS-C01

AWS Certified Data Analytics - Specialty

#### NEW QUESTION 1

A company wants to run analytics on its Elastic Load Balancing logs stored in Amazon S3. A data analyst needs to be able to query all data from a desired year, month, or day. The data analyst should also be able to query a subset of the columns. The company requires minimal operational overhead and the most cost-effective solution.

Which approach meets these requirements for optimizing and querying the log data?

- A. Use an AWS Glue job nightly to transform new log files into .csv format and partition by year, month, and da
- B. Use AWS Glue crawlers to detect new partition
- C. Use Amazon Athena to query data.
- D. Launch a long-running Amazon EMR cluster that continuously transforms new log files from Amazon S3 into its Hadoop Distributed File System (HDFS) storage and partitions by year, month, and da
- E. Use Apache Presto to query the optimized format.
- F. Launch a transient Amazon EMR cluster nightly to transform new log files into Apache ORC format and partition by year, month, and da
- G. Use Amazon Redshift Spectrum to query the data.
- H. Use an AWS Glue job nightly to transform new log files into Apache Parquet format and partition by year, month, and da
- I. Use AWS Glue crawlers to detect new partition
- J. Use Amazon Athena to querydata.

**Answer:** C

#### NEW QUESTION 2

A company that monitors weather conditions from remote construction sites is setting up a solution to collect temperature data from the following two weather stations.

- Station A, which has 10 sensors
- Station B, which has five sensors

These weather stations were placed by onsite subject-matter experts.

Each sensor has a unique ID. The data collected from each sensor will be collected using Amazon Kinesis Data Streams.

Based on the total incoming and outgoing data throughput, a single Amazon Kinesis data stream with two shards is created. Two partition keys are created based on the station names. During testing, there is a bottleneck on data coming from Station A, but not from Station B. Upon review, it is confirmed that the total stream throughput is still less than the allocated Kinesis Data Streams throughput.

How can this bottleneck be resolved without increasing the overall cost and complexity of the solution, while retaining the data collection quality requirements?

- A. Increase the number of shards in Kinesis Data Streams to increase the level of parallelism.
- B. Create a separate Kinesis data stream for Station A with two shards, and stream Station A sensor data to the new stream.
- C. Modify the partition key to use the sensor ID instead of the station name.
- D. Reduce the number of sensors in Station A from 10 to 5 sensors.

**Answer:** C

#### Explanation:

<https://docs.aws.amazon.com/streams/latest/dev/kinesis-using-sdk-java-resharding.html>

"Splitting increases the number of shards in your stream and therefore increases the data capacity of the stream. Because you are charged on a per-shard basis, splitting increases the cost of your stream"

#### NEW QUESTION 3

A company's marketing team has asked for help in identifying a high performing long-term storage service for their data based on the following requirements:

- The data size is approximately 32 TB uncompressed.
- There is a low volume of single-row inserts each day.
- There is a high volume of aggregation queries each day.
- Multiple complex joins are performed.
- The queries typically involve a small subset of the columns in a table. Which storage service will provide the MOST performant solution?

- A. Amazon Aurora MySQL
- B. Amazon Redshift
- C. Amazon Neptune
- D. Amazon Elasticsearch

**Answer:** B

#### NEW QUESTION 4

A company has a data lake on AWS that ingests sources of data from multiple business units and uses Amazon Athena for queries. The storage layer is Amazon S3 using the AWS Glue Data Catalog. The company wants to make the data available to its data scientists and business analysts. However, the company first needs to manage data access for Athena based on user roles and responsibilities.

What should the company do to apply these access controls with the LEAST operational overhead?

- A. Define security policy-based rules for the users and applications by role in AWS Lake Formation.
- B. Define security policy-based rules for the users and applications by role in AWS Identity and Access Management (IAM).
- C. Define security policy-based rules for the tables and columns by role in AWS Glue.
- D. Define security policy-based rules for the tables and columns by role in AWS Identity and Access Management (IAM).

**Answer:** D

#### NEW QUESTION 5

A retail company's data analytics team recently created multiple product sales analysis dashboards for the average selling price per product using Amazon

QuickSight. The dashboards were created from .csv files uploaded to Amazon S3. The team is now planning to share the dashboards with the respective external product owners by creating individual users in Amazon QuickSight. For compliance and governance reasons, restricting access is a key requirement. The product owners should view only their respective product analysis in the dashboard reports.

Which approach should the data analytics team take to allow product owners to view only their products in the dashboard?

- A. Separate the data by product and use S3 bucket policies for authorization.
- B. Separate the data by product and use IAM policies for authorization.
- C. Create a manifest file with row-level security.
- D. Create dataset rules with row-level security.

**Answer: D**

**Explanation:**

<https://docs.aws.amazon.com/quicksight/latest/user/restrict-access-to-a-data-set-using-row-level-security.html>

#### NEW QUESTION 6

A company has developed several AWS Glue jobs to validate and transform its data from Amazon S3 and load it into Amazon RDS for MySQL in batches once every day. The ETL jobs read the S3 data using a DynamicFrame. Currently, the ETL developers are experiencing challenges in processing only the incremental data on every run, as the AWS Glue job processes all the S3 input data on each run.

Which approach would allow the developers to solve the issue with minimal coding effort?

- A. Have the ETL jobs read the data from Amazon S3 using a DataFrame.
- B. Enable job bookmarks on the AWS Glue jobs.
- C. Create custom logic on the ETL jobs to track the processed S3 objects.
- D. Have the ETL jobs delete the processed objects or data from Amazon S3 after each run.

**Answer: B**

#### NEW QUESTION 7

An ecommerce company stores customer purchase data in Amazon RDS. The company wants a solution to store and analyze historical data. The most recent 6 months of data will be queried frequently for analytics workloads. This data is several terabytes large. Once a month, historical data for the last 5 years must be accessible and will be joined with the more recent data. The company wants to optimize performance and cost.

Which storage solution will meet these requirements?

- A. Create a read replica of the RDS database to store the most recent 6 months of data.
- B. Copy the historical data into Amazon S3. Create an AWS Glue Data Catalog of the data in Amazon S3 and Amazon RDS.
- C. Run historical queries using Amazon Athena.
- D. Use an ETL tool to incrementally load the most recent 6 months of data into an Amazon Redshift cluster.
- E. Run more frequent queries against this cluster.
- F. Create a read replica of the RDS database to run queries on the historical data.
- G. Incrementally copy data from Amazon RDS to Amazon S3. Create an AWS Glue Data Catalog of the data in Amazon S3. Use Amazon Athena to query the data.
- H. Incrementally copy data from Amazon RDS to Amazon S3. Load and store the most recent 6 months of data in Amazon Redshift.
- I. Configure an Amazon Redshift Spectrum table to connect to all historical data.

**Answer: D**

#### NEW QUESTION 8

A financial company uses Amazon S3 as its data lake and has set up a data warehouse using a multi-node Amazon Redshift cluster. The data files in the data lake are organized in folders based on the data source of each data file. All the data files are loaded to one table in the Amazon Redshift cluster using a separate COPY command for each data file location. With this approach, loading all the data files into Amazon Redshift takes a long time to complete. Users want a faster solution with little or no increase in cost while maintaining the segregation of the data files in the S3 data lake.

Which solution meets these requirements?

- A. Use Amazon EMR to copy all the data files into one folder and issue a COPY command to load the data into Amazon Redshift.
- B. Load all the data files in parallel to Amazon Aurora, and run an AWS Glue job to load the data into Amazon Redshift.
- C. Use an AWS Glue job to copy all the data files into one folder and issue a COPY command to load the data into Amazon Redshift.
- D. Create a manifest file that contains the data file locations and issue a COPY command to load the data into Amazon Redshift.

**Answer: D**

**Explanation:**

<https://docs.aws.amazon.com/redshift/latest/dg/loading-data-files-using-manifest.html> "You can use a manifest to ensure that the COPY command loads all of the required files, and only the required files, for a data load"

#### NEW QUESTION 9

A company's data analyst needs to ensure that queries executed in Amazon Athena cannot scan more than a prescribed amount of data for cost control purposes. Queries that exceed the prescribed threshold must be canceled immediately.

What should the data analyst do to achieve this?

- A. Configure Athena to invoke an AWS Lambda function that terminates queries when the prescribed threshold is crossed.
- B. For each workgroup, set the control limit for each query to the prescribed threshold.
- C. Enforce the prescribed threshold on all Amazon S3 bucket policies.
- D. For each workgroup, set the workgroup-wide data usage control limit to the prescribed threshold.

**Answer: B**

**Explanation:**

<https://docs.aws.amazon.com/athena/latest/ug/manage-queries-control-costs-with-workgroups.html>

#### NEW QUESTION 10

A company developed a new elections reporting website that uses Amazon Kinesis Data Firehose to deliver full logs from AWS WAF to an Amazon S3 bucket. The company is now seeking a low-cost option to perform this infrequent data analysis with visualizations of logs in a way that requires minimal development effort. Which solution meets these requirements?

- A. Use an AWS Glue crawler to create and update a table in the Glue data catalog from the log
- B. Use Athena to perform ad-hoc analyses and use Amazon QuickSight to develop data visualizations.
- C. Create a second Kinesis Data Firehose delivery stream to deliver the log files to Amazon Elasticsearch Service (Amazon ES). Use Amazon ES to perform text-based searches of the logs for ad-hoc analyses and use Kibana for data visualizations.
- D. Create an AWS Lambda function to convert the logs into .csv format
- E. Then add the function to the Kinesis Data Firehose transformation configuration
- F. Use Amazon Redshift to perform ad-hoc analyses of the logs using SQL queries and use Amazon QuickSight to develop data visualizations.
- G. Create an Amazon EMR cluster and use Amazon S3 as the data source
- H. Create an Apache Spark job to perform ad-hoc analyses and use Amazon QuickSight to develop data visualizations.

**Answer:** A

#### Explanation:

<https://aws.amazon.com/blogs/big-data/analyzing-aws-waf-logs-with-amazon-es-amazon-athena-and-amazon-qu>

#### NEW QUESTION 10

A central government organization is collecting events from various internal applications using Amazon Managed Streaming for Apache Kafka (Amazon MSK). The organization has configured a separate Kafka topic for each application to separate the data. For security reasons, the Kafka cluster has been configured to only allow TLS encrypted data and it encrypts the data at rest.

A recent application update showed that one of the applications was configured incorrectly, resulting in writing data to a Kafka topic that belongs to another application. This resulted in multiple errors in the analytics pipeline as data from different applications appeared on the same topic. After this incident, the organization wants to prevent applications from writing to a topic different than the one they should write to.

Which solution meets these requirements with the least amount of effort?

- A. Create a different Amazon EC2 security group for each application
- B. Configure each security group to have access to a specific topic in the Amazon MSK cluster
- C. Attach the security group to each application based on the topic that the applications should read and write to.
- D. Install Kafka Connect on each application instance and configure each Kafka Connect instance to write to a specific topic only.
- E. Use Kafka ACLs and configure read and write permissions for each topic
- F. Use the distinguished name of the clients' TLS certificates as the principal of the ACL.
- G. Create a different Amazon EC2 security group for each application
- H. Create an Amazon MSK cluster and Kafka topic for each application
- I. Configure each security group to have access to the specific cluster.

**Answer:** B

#### NEW QUESTION 15

A large retailer has successfully migrated to an Amazon S3 data lake architecture. The company's marketing team is using Amazon Redshift and Amazon QuickSight to analyze data, and derive and visualize insights. To ensure the marketing team has the most up-to-date actionable information, a data analyst implements nightly refreshes of Amazon Redshift using terabytes of updates from the previous day.

After the first nightly refresh, users report that half of the most popular dashboards that had been running correctly before the refresh are now running much slower. Amazon CloudWatch does not show any alerts.

What is the MOST likely cause for the performance degradation?

- A. The dashboards are suffering from inefficient SQL queries.
- B. The cluster is undersized for the queries being run by the dashboards.
- C. The nightly data refreshes are causing a lingering transaction that cannot be automatically closed by Amazon Redshift due to ongoing user workloads.
- D. The nightly data refreshes left the dashboard tables in need of a vacuum operation that could not be automatically performed by Amazon Redshift due to ongoing user workloads.

**Answer:** D

#### Explanation:

<https://github.com/awsdocs/amazon-redshift-developer-guide/issues/21>

#### NEW QUESTION 18

A company owns facilities with IoT devices installed across the world. The company is using Amazon Kinesis Data Streams to stream data from the devices to Amazon S3. The company's operations team wants to get insights from the IoT data to monitor data quality at ingestion. The insights need to be derived in near-real time, and the output must be logged to Amazon DynamoDB for further analysis.

Which solution meets these requirements?

- A. Connect Amazon Kinesis Data Analytics to analyze the stream data
- B. Save the output to DynamoDB by using the default output from Kinesis Data Analytics.
- C. Connect Amazon Kinesis Data Analytics to analyze the stream data
- D. Save the output to DynamoDB by using an AWS Lambda function.
- E. Connect Amazon Kinesis Data Firehose to analyze the stream data by using an AWS Lambda function. Save the output to DynamoDB by using the default output from Kinesis Data Firehose.
- F. Connect Amazon Kinesis Data Firehose to analyze the stream data by using an AWS Lambda function. Save the data to Amazon S3. Then run an AWS Glue job on schedule to ingest the data into DynamoDB.

**Answer:** C

#### NEW QUESTION 19



A hospital uses wearable medical sensor devices to collect data from patients. The hospital is architecting a near-real-time solution that can ingest the data securely at scale. The solution should also be able to remove the patient's protected health information (PHI) from the streaming data and store the data in durable storage.

Which solution meets these requirements with the least operational overhead?

- A. Ingest the data using Amazon Kinesis Data Streams, which invokes an AWS Lambda function using Kinesis Client Library (KCL) to remove all PH
- B. Write the data in Amazon S3.
- C. Ingest the data using Amazon Kinesis Data Firehose to write the data to Amazon S3. Have Amazon S3 trigger an AWS Lambda function that parses the sensor data to remove all PHI in Amazon S3.
- D. Ingest the data using Amazon Kinesis Data Streams to write the data to Amazon S3. Have the data stream launch an AWS Lambda function that parses the sensor data and removes all PHI in Amazon S3.
- E. Ingest the data using Amazon Kinesis Data Firehose to write the data to Amazon S3. Implement a transformation AWS Lambda function that parses the sensor data to remove all PHI.

**Answer:** D

**Explanation:**

<https://aws.amazon.com/blogs/big-data/persist-streaming-data-to-amazon-s3-using-amazon-kinesis-firehose-and>

#### NEW QUESTION 22

An operations team notices that a few AWS Glue jobs for a given ETL application are failing. The AWS Glue jobs read a large number of small JSON files from an Amazon S3 bucket and write the data to a different S3 bucket in Apache Parquet format with no major transformations. Upon initial investigation, a data engineer notices the following error message in the History tab on the AWS Glue console: "Command Failed with Exit Code 1."

Upon further investigation, the data engineer notices that the driver memory profile of the failed jobs crosses the safe threshold of 50% usage quickly and reaches 90–95% soon after. The average memory usage across all executors continues to be less than 4%.

The data engineer also notices the following error while examining the related Amazon CloudWatch Logs. What should the data engineer do to solve the failure in the MOST cost-effective way?

- A. Change the worker type from Standard to G.2X.
- B. Modify the AWS Glue ETL code to use the 'groupFiles': 'inPartition' feature.
- C. Increase the fetch size setting by using AWS Glue dynamics frame.
- D. Modify maximum capacity to increase the total maximum data processing units (DPUs) used.

**Answer:** B

**Explanation:**

<https://docs.aws.amazon.com/glue/latest/dg/monitor-profile-debug-oom-abnormalities.html#monitor-debug-oom>

#### NEW QUESTION 23

A market data company aggregates external data sources to create a detailed view of product consumption in different countries. The company wants to sell this data to external parties through a subscription. To achieve this goal, the company needs to make its data securely available to external parties who are also AWS users.

What should the company do to meet these requirements with the LEAST operational overhead?

- A. Store the data in Amazon S3. Share the data by using presigned URLs for security.
- B. Store the data in Amazon S3. Share the data by using S3 bucket ACLs.
- C. Upload the data to AWS Data Exchange for storag
- D. Share the data by using presigned URLs for security.
- E. Upload the data to AWS Data Exchange for storag
- F. Share the data by using the AWS Data Exchange sharing wizard.

**Answer:** A

#### NEW QUESTION 25

A data analytics specialist is building an automated ETL ingestion pipeline using AWS Glue to ingest compressed files that have been uploaded to an Amazon S3 bucket. The ingestion pipeline should support incremental data processing.

Which AWS Glue feature should the data analytics specialist use to meet this requirement?

- A. Workflows
- B. Triggers
- C. Job bookmarks
- D. Classifiers

**Answer:** C

#### NEW QUESTION 26

A retail company leverages Amazon Athena for ad-hoc queries against an AWS Glue Data Catalog. The data analytics team manages the data catalog and data access for the company. The data analytics team wants to separate queries and manage the cost of running those queries by different workloads and teams.

Ideally, the data analysts want to group the queries run by different users within a team, store the query results in individual Amazon S3 buckets specific to each team, and enforce cost constraints on the queries run against the Data Catalog.

Which solution meets these requirements?

- A. Create IAM groups and resource tags for each team within the compan
- B. Set up IAM policies that control user access and actions on the Data Catalog resources.
- C. Create Athena resource groups for each team within the company and assign users to these group
- D. Add S3 bucket names and other query configurations to the properties list for the resource groups.
- E. Create Athena workgroups for each team within the compan
- F. Set up IAM workgroup policies that control user access and actions on the workgroup resources.
- G. Create Athena query groups for each team within the company and assign users to the groups.

**Answer:** C

**Explanation:**

[https://aws.amazon.com/about-aws/whats-new/2019/02/athena\\_workgroups/](https://aws.amazon.com/about-aws/whats-new/2019/02/athena_workgroups/)

### NEW QUESTION 30

Once a month, a company receives a 100 MB .csv file compressed with gzip. The file contains 50,000 property listing records and is stored in Amazon S3 Glacier. The company needs its data analyst to query a subset of the data for a specific vendor. What is the most cost-effective solution?

- A. Load the data into Amazon S3 and query it with Amazon S3 Select.
- B. Query the data from Amazon S3 Glacier directly with Amazon Glacier Select.
- C. Load the data to Amazon S3 and query it with Amazon Athena.
- D. Load the data to Amazon S3 and query it with Amazon Redshift Spectrum.

**Answer:** A

### NEW QUESTION 32

A retail company wants to use Amazon QuickSight to generate dashboards for web and in-store sales. A group of 50 business intelligence professionals will develop and use the dashboards. Once ready, the dashboards will be shared with a group of 1,000 users. The sales data comes from different stores and is uploaded to Amazon S3 every 24 hours. The data is partitioned by year and month, and is stored in Apache Parquet format. The company is using the AWS Glue Data Catalog as its main data catalog and Amazon Athena for querying. The total size of the uncompressed data that the dashboards query from at any point is 200 GB. Which configuration will provide the MOST cost-effective solution that meets these requirements?

- A. Load the data into an Amazon Redshift cluster by using the COPY command.
- B. Configure 50 author users and 1,000 reader user.
- C. Use QuickSight Enterprise edition.
- D. Configure an Amazon Redshift data source with a direct query option.
- E. Use QuickSight Standard edition.
- F. Configure 50 author users and 1,000 reader user.
- G. Configure an Athena data source with a direct query option.
- H. Use QuickSight Enterprise edition.
- I. Configure 50 author users and 1,000 reader user.
- J. Configure an Athena data source and import the data into SPICE.
- K. Automatically refresh every 24 hours.
- L. Use QuickSight Enterprise edition.
- M. Configure 1 administrator and 1,000 reader user.
- N. Configure an S3 data source and import the data into SPICE.
- O. Automatically refresh every 24 hours.

**Answer:** C

### NEW QUESTION 37

A company uses the Amazon Kinesis SDK to write data to Kinesis Data Streams. Compliance requirements state that the data must be encrypted at rest using a key that can be rotated. The company wants to meet this encryption requirement with minimal coding effort. How can these requirements be met?

- A. Create a customer master key (CMK) in AWS KMS.
- B. Assign the CMK an alias.
- C. Use the AWS Encryption SDK, providing it with the key alias to encrypt and decrypt the data.
- D. Create a customer master key (CMK) in AWS KMS.
- E. Assign the CMK an alias.
- F. Enable server-side encryption on the Kinesis data stream using the CMK alias as the KMS master key.
- G. Create a customer master key (CMK) in AWS KMS.
- H. Create an AWS Lambda function to encrypt and decrypt the data.
- I. Set the KMS key ID in the function's environment variables.
- J. Enable server-side encryption on the Kinesis data stream using the default KMS key for Kinesis Data Streams.

**Answer:** B

### NEW QUESTION 39

An online retail company is migrating its reporting system to AWS. The company's legacy system runs data processing on online transactions using a complex series of nested Apache Hive queries. Transactional data is exported from the online system to the reporting system several times a day. Schemas in the files are stable between updates. A data analyst wants to quickly migrate the data processing to AWS, so any code changes should be minimized. To keep storage costs low, the data analyst decides to store the data in Amazon S3. It is vital that the data from the reports and associated analytics is completely up to date based on the data in Amazon S3. Which solution meets these requirements?

- A. Create an AWS Glue Data Catalog to manage the Hive metadata.
- B. Create an AWS Glue crawler over Amazon S3 that runs when data is refreshed to ensure that data changes are updated.
- C. Create an Amazon EMR cluster and use the metadata in the AWS Glue Data Catalog to run Hive processing queries in Amazon EMR.
- D. Create an AWS Glue Data Catalog to manage the Hive metadata.
- E. Create an Amazon EMR cluster with consistent view enabled.
- F. Run emrfs sync before each analytics step to ensure data changes are updated.
- G. Create an EMR cluster and use the metadata in the AWS Glue Data Catalog to run Hive processing queries in Amazon EMR.
- H. Create an Amazon Athena table with CREATE TABLE AS SELECT (CTAS) to ensure data is refreshed from underlying queries against the raw dataset.
- I. Create an AWS Glue Data Catalog to manage the Hive metadata over the CTAS table.
- J. Create an Amazon EMR cluster and use the metadata in the AWS Glue Data Catalog to run Hive processing queries in Amazon EMR.

- K. Use an S3 Select query to ensure that the data is properly update
- L. Create an AWS Glue Data Catalog to manage the Hive metadata over the S3 Select tabl
- M. Create an Amazon EMR cluster and use the metadata in the AWS Glue Data Catalog to run Hive processing queries in Amazon EMR.

**Answer:** A

#### NEW QUESTION 43

A company needs to collect streaming data from several sources and store the data in the AWS Cloud. The dataset is heavily structured, but analysts need to perform several complex SQL queries and need consistent performance. Some of the data is queried more frequently than the rest. The company wants a solution that meets its performance requirements in a cost-effective manner.

Which solution meets these requirements?

- A. Use Amazon Managed Streaming for Apache Kafka to ingest the data to save it to Amazon S3. Use Amazon Athena to perform SQL queries over the ingested data.
- B. Use Amazon Managed Streaming for Apache Kafka to ingest the data to save it to Amazon Redshift. Enable Amazon Redshift workload management (WLM) to prioritize workloads.
- C. Use Amazon Kinesis Data Firehose to ingest the data to save it to Amazon Redshif
- D. Enable Amazon Redshift workload management (WLM) to prioritize workloads.
- E. Use Amazon Kinesis Data Firehose to ingest the data to save it to Amazon S3. Load frequently queried data to Amazon Redshift using the COPY comman
- F. Use Amazon Redshift Spectrum for less frequently queried data.

**Answer:** B

#### NEW QUESTION 44

A banking company is currently using an Amazon Redshift cluster with dense storage (DS) nodes to store sensitive data. An audit found that the cluster is unencrypted. Compliance requirements state that a database with sensitive data must be encrypted through a hardware security module (HSM) with automated key rotation.

Which combination of steps is required to achieve compliance? (Choose two.)

- A. Set up a trusted connection with HSM using a client and server certificate with automatic key rotation.
- B. Modify the cluster with an HSM encryption option and automatic key rotation.
- C. Create a new HSM-encrypted Amazon Redshift cluster and migrate the data to the new cluster.
- D. Enable HSM with key rotation through the AWS CLI.
- E. Enable Elliptic Curve Diffie-Hellman Ephemeral (ECDHE) encryption in the HSM.

**Answer:** BD

#### NEW QUESTION 46

A company wants to use an automatic machine learning (ML) Random Cut Forest (RCF) algorithm to visualize complex real-world scenarios, such as detecting seasonality and trends, excluding outliers, and imputing missing values.

The team working on this project is non-technical and is looking for an out-of-the-box solution that will require the LEAST amount of management overhead.

Which solution will meet these requirements?

- A. Use an AWS Glue ML transform to create a forecast and then use Amazon QuickSight to visualize the data.
- B. Use Amazon QuickSight to visualize the data and then use ML-powered forecasting to forecast the key business metrics.
- C. Use a pre-build ML AMI from the AWS Marketplace to create forecasts and then use Amazon QuickSight to visualize the data.
- D. Use calculated fields to create a new forecast and then use Amazon QuickSight to visualize the data.

**Answer:** A

#### NEW QUESTION 49

A company is streaming its high-volume billing data (100 MBps) to Amazon Kinesis Data Streams. A data analyst partitioned the data on account\_id to ensure that all records belonging to an account go to the same Kinesis shard and order is maintained. While building a custom consumer using the Kinesis Java SDK, the data analyst notices that, sometimes, the messages arrive out of order for account\_id. Upon further investigation, the data analyst discovers the messages that are out of order seem to be arriving from different shards for the same account\_id and are seen when a stream resize runs.

What is an explanation for this behavior and what is the solution?

- A. There are multiple shards in a stream and order needs to be maintained in the shar
- B. The data analyst needs to make sure there is only a single shard in the stream and no stream resize runs.
- C. The hash key generation process for the records is not working correctl
- D. The data analyst should generate an explicit hash key on the producer side so the records are directed to the appropriate shard accurately.
- E. The records are not being received by Kinesis Data Streams in orde
- F. The producer should use the PutRecords API call instead of the PutRecord API call with the SequenceNumberForOrdering parameter.
- G. The consumer is not processing the parent shard completely before processing the child shards after a stream resiz
- H. The data analyst should process the parent shard completely first before processing the child shards.

**Answer:** D

#### Explanation:

<https://docs.aws.amazon.com/streams/latest/dev/kinesis-using-sdk-java-after-resharding.html> the parent shards that remain after the reshard could still contain data that you haven't read yet that was added to the stream before the reshard. If you read data from the child shards before having read all data from the parent shards, you could read data for a particular hash key out of the order given by the data records' sequence numbers. Therefore, assuming that the order of the data is important, you should, after a reshard, always continue to read data from the parent shards until it is exhausted. Only then should you begin reading data from the child shards.

#### NEW QUESTION 50

A manufacturing company has been collecting IoT sensor data from devices on its factory floor for a year and is storing the data in Amazon Redshift for daily analysis. A data analyst has determined that, at an expected ingestion rate of about 2 TB per day, the cluster will be undersized in less than 4 months. A long-term

solution is needed. The data analyst has indicated that most queries only reference the most recent 13 months of data, yet there are also quarterly reports that need to query all the data generated from the past 7 years. The chief technology officer (CTO) is concerned about the costs, administrative effort, and performance of a long-term solution.

Which solution should the data analyst use to meet these requirements?

- A. Create a daily job in AWS Glue to UNLOAD records older than 13 months to Amazon S3 and delete those records from Amazon Redshift
- B. Create an external table in Amazon Redshift to point to the S3 location
- C. Use Amazon Redshift Spectrum to join to data that is older than 13 months.
- D. Take a snapshot of the Amazon Redshift cluster
- E. Restore the cluster to a new cluster using dense storage nodes with additional storage capacity.
- F. Execute a CREATE TABLE AS SELECT (CTAS) statement to move records that are older than 13 months to quarterly partitioned data in Amazon Redshift Spectrum backed by Amazon S3.
- G. Unload all the tables in Amazon Redshift to an Amazon S3 bucket using S3 Intelligent-Tiering
- H. Use AWS Glue to crawl the S3 bucket location to create external tables in an AWS Glue Data Catalog
- I. Create an Amazon EMR cluster using Auto Scaling for any daily analytics needs, and use Amazon Athena for the quarterly reports, with both using the same AWS Glue Data Catalog.

**Answer:** A

#### NEW QUESTION 54

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.

**Answer:** AB

#### Explanation:

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

#### NEW QUESTION 58

A data analyst is designing a solution to interactively query datasets with SQL using a JDBC connection. Users will join data stored in Amazon S3 in Apache ORC format with data stored in Amazon Elasticsearch Service (Amazon ES) and Amazon Aurora MySQL.

Which solution will provide the MOST up-to-date results?

- A. Use AWS Glue jobs to ETL data from Amazon ES and Aurora MySQL to Amazon S3. Query the data with Amazon Athena.
- B. Use Amazon DMS to stream data from Amazon ES and Aurora MySQL to Amazon Redshift
- C. Query the data with Amazon Redshift.
- D. Query all the datasets in place with Apache Spark SQL running on an AWS Glue developer endpoint.
- E. Query all the datasets in place with Apache Presto running on Amazon EMR.

**Answer:** C

#### NEW QUESTION 61

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