DAS-C01 Q&As

AWS Certified Data Analytics - Specialty (DAS-C01)

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QUESTION 1

A software company wants to use instrumentation data to detect and resolve errors to improve application recovery time. The company requires API usage anomalies, like error rate and response time spikes, to be detected in near-real time (NRT) The company also requires that data analysts have access to dashboards for log analysis in NRT.

Which solution meets these requirements\\'?

A. Use Amazon Kinesis Data Firehose as the data transport layer for logging data Use Amazon Kinesis Data Analytics to uncover the NRT API usage anomalies Use Kinesis Data Firehose to deliver log data to Amazon OpenSearch Service (Amazon Elasticsearch Service) for search, log analytics, and application monitoring Use OpenSearch Dashboards (Kibana) in Amazon OpenSearch Service (Amazon Elasticsearch Service) for the dashboards.

B. Use Amazon Kinesis Data Analytics as the data transport layer for logging data. Use Amazon Kinesis Data Streams to uncover NRT monitoring metrics. Use Amazon Kinesis Data Firehose to deliver log data to Amazon OpenSearch Service (Amazon Elasticsearch Service) for search, log analytics, and application monitoring Use Amazon QuickSight for the dashboards

C. Use Amazon Kinesis Data Analytics as the data transport layer for logging data and to uncover NRT monitoring metrics Use Amazon Kinesis Data Firehose to deliver log data to Amazon OpenSearch Service (Amazon Elasticsearch Service) for search, log analytics, and application monitoring Use OpenSearch Dashboards (Kibana) in Amazon OpenSearch Service (Amazon Elasticsearch Service) for the dashboards

D. Use Amazon Kinesis Data Firehose as the data transport layer for logging data Use Amazon Kinesis Data Analytics to uncover NRT monitoring metrics Use Amazon Kinesis Data Streams to deliver log data to Amazon OpenSearch Service (Amazon Elasticsearch Service) for search, log analytics, and application monitoring Use Amazon QuickSight for the dashboards.

Correct Answer: C

Reference: https://docs.aws.amazon.com/opensearch-service/latest/developerguide/integrations.html

QUESTION 2

A technology company has an application with millions of active users every day. The company queries daily usage data with Amazon Athena to understand how users interact with the application. The data includes the date and time, the location ID, and the services used. The company wants to use Athena to run queries to analyze the data with the lowest latency possible.

Which solution meets these requirements?

A. Store the data in Apache Avro format with the date and time as the partition, with the data sorted by the location ID.

B. Store the data in Apache Parquet format with the date and time as the partition, with the data sorted by the location ID.

C. Store the data in Apache ORC format with the location ID as the partition, with the data sorted by the date and time.

D. Store the data in .csv format with the location ID as the partition, with the data sorted by the date and time.

Correct Answer: B

Reference: https://cwiki.apache.org/confluence/display/hive/languagemanual+orc

QUESTION 3

A marketing company has data in Salesforce, MySQL, and Amazon S3. The company wants to use data from these three locations and create mobile dashboards for its users. The company is unsure how it should create the dashboards and needs a solution with the least possible customization and coding.

Which solution meets these requirements?

A. Use Amazon Athena federated queries to join the data sources. Use Amazon QuickSight to generate the mobile dashboards.

B. Use AWS Lake Formation to migrate the data sources into Amazon S3. Use Amazon QuickSight to generate the mobile dashboards.

C. Use Amazon Redshift federated queries to join the data sources. Use Amazon QuickSight to generate the mobile dashboards.

D. Use Amazon QuickSight to connect to the data sources and generate the mobile dashboards.

Correct Answer: C

Reference: https://aws.amazon.com/blogs/big-data/accessing-and-visualizing-data-from-multiple-data-sources-with-amazon-athena-and-amazon-quicksight/

QUESTION 4

A financial company uses Amazon Athena to query data from an Amazon S3 data lake. Files are stored in the S3 data lake in Apache ORC format. Data analysts recently introduced nested fields in the data lake ORC files, and noticed that queries are taking longer to run in Athena. A data analysts discovered that more data than what is required is being scanned for the queries.

What is the MOST operationally efficient solution to improve query performance?

A. Flatten nested data and create separate files for each nested dataset.

B. Use the Athena query engine V2 and push the query filter to the source ORC file.

C. Use Apache Parquet format instead of ORC format.

D. Recreate the data partition strategy and further narrow down the data filter criteria.

Correct Answer: C

QUESTION 5

A company receives data in CSV format from partners. The company stores this incoming raw data in Amazon S3. The company must clean the data by addressing missing values, incorrect formatting, and outlier values before the company sends the data to a reporting dashboard.

Which solution will meet these requirements with the LEAST development effort?

A. Implement an AWS Glue ETL job. Include the data cleaning logic in the ETL job.

B. Create an AWS Glue DataBrew recipe job. Include appropriate steps in the recipe job to detect and change specific data fields.

C. Launch an Amazon EMR cluster. Run an Apache Spark job to read and clean the data. Include the data cleaning logic in the Spark job.

D. Use an Amazon EMR serverless runtime. Run an Apache Spark job to read and clean the data. Include the data cleaning logic in the Spark job.

Correct Answer: A