

DAS-C01^{Q&As}

AWS Certified Data Analytics - Specialty (DAS-C01)

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QUESTION 1

A company is hosting an enterprise reporting solution with Amazon Redshift. The application provides reporting capabilities to three main groups: an executive group to access financial reports, a data analyst group to run long-running ad-hoc queries, and a data engineering group to run stored procedures and ETL processes. The executive team requires queries to run with optimal performance. The data engineering team expects queries to take minutes.

Which Amazon Redshift feature meets the requirements for this task?

- A. Concurrency scaling
- B. Short query acceleration (SQA)
- C. Workload management (WLM)
- D. Materialized views

Correct Answer: D

Materialized views:

Reference: <https://aws.amazon.com/redshift/faqs/>

QUESTION 2

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.

Correct Answer: AC

Reference: <https://docs.aws.amazon.com/redshift/latest/mgmt/working-with-db-encryption.html>

QUESTION 3

A company needs to implement a solution to restrict the launch of new Amazon EMR clusters in public subnets. With the exception of SSH and HTTPS connections, no employee should be able to launch a new EMR cluster in a public subnet unless inbound traffic from the internet is blocked.

Which combination of steps should the company take to meet this requirement? (Choose two.)

- A. Turn on EMR block public access for an IAM user group. Add all the employees to the group.
- B. Turn on EMR block public access for the account.
- C. Add port 443 as an exception in the block public access configuration.
- D. Add port 22 as an exception in the block public access configuration.
- E. Create a private internal subnet. Require all the employees to specify this subnet when they launch clusters.

Correct Answer: DE

QUESTION 4

A data analyst at a fast-growing retail company needs to store data coming in from several dozen marketing campaigns. Each source will write its output to a CSV file that is stored in Amazon S3. The data will later be analyzed by individual campaign managers using Amazon Athena to roughly track the number of daily unique visits to their specific campaign websites over time. The company wants to minimize the cost of data analysis.

Which combination of actions would lead to the MOST efficient one-time analysis of the data? (Choose two.)

- A. Use an AWS Glue job to convert all files to Apache ORC format. Use the COUNT(DISTINCT column) function to obtain a count of unique visitors.
- B. Create one S3 bucket for all the data. Partition the data by date.
- C. Create a separate S3 bucket for each campaign. Partition the data by date.
- D. Create a separate S3 bucket for each month. Partition the data by campaign.
- E. Use an AWS Glue job to convert all files to Apache Parquet format. Use the approx_distinct() function to obtain a count of unique visitors.

Correct Answer: AE

QUESTION 5

A banking company plans to build a data warehouse solution on AWS to run join queries on 20 TB of data. These queries will be complex and analytical. About 10% of the data is from the past 3 months. Data older than 3 months needs to be accessed occasionally to run queries.

Which solution MOST cost-effectively meets these requirements?

- A. Use Amazon S3 as the data store and use Amazon Athena for the queries. Use Amazon S3 Glacier Flexible Retrieval for storing data older than 3 months by using S3 lifecycle policies.
- B. Use Amazon Redshift to build a data warehouse solution. Create an AWS Lambda function that is orchestrated by AWS Step Functions to run the UNLOAD command on data older than 3 months from the Redshift database to Amazon S3. Use Amazon Redshift Spectrum to query the data in Amazon S3.
- C. Use Amazon Redshift to build a data warehouse solution. Use RA3 instances for the Redshift cluster so that data

requested for a query is stored in a solid state drive (SSD) for fast local storage and Amazon S3 for longer-term durable storage.

D. Use Amazon Elastic File System (Amazon EFS) to build a data warehouse solution for data storage. Use Amazon EFS lifecycle management to retire data older than 3 months to the S3 Standard-Infrequent Access (S3 Standard-IA) class. Use Apache Presto on an Amazon EMR cluster to query the data interactively.

Correct Answer: C

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