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## 100% Pass Quiz 2026 Amazon Data-Engineer-Associate: High-quality Reliable AWS Certified Data Engineer - Associate (DEA-C01) Exam Registration

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### Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q179-Q184):

#### NEW QUESTION # 179

A company needs to build a data lake in AWS. The company must provide row-level data access and column-level data access to specific teams. The teams will access the data by using Amazon Athena, Amazon Redshift Spectrum, and Apache Hive from Amazon EMR.

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

- A. Use Amazon S3 for data lake storage. Use S3 access policies to restrict data access by rows and columns. Provide data access through Amazon S3.
- B. Use Amazon S3 for data lake storage. Use AWS Lake Formation to restrict data access by rows and columns. Provide

data access through AWS Lake Formation.

- C. Use Amazon S3 for data lake storage. Use Apache Ranger through Amazon EMR to restrict data access by rows and columns. Provide data access by using Apache Pig.
- D. Use Amazon Redshift for data lake storage. Use Redshift security policies to restrict data access by rows and columns. Provide data access by using Apache Spark and Amazon Athena federated queries.

**Answer: B**

Explanation:

Option D is the best solution to meet the requirements with the least operational overhead because AWS Lake Formation is a fully managed service that simplifies the process of building, securing, and managing data lakes. AWS Lake Formation allows you to define granular data access policies at the row and column level for different users and groups. AWS Lake Formation also integrates with Amazon Athena, Amazon Redshift Spectrum, and Apache Hive on Amazon EMR, enabling these services to access the data in the data lake through AWS Lake Formation.

Option A is not a good solution because S3 access policies cannot restrict data access by rows and columns.

S3 access policies are based on the identity and permissions of the requester, the bucket and object ownership, and the object prefix and tags. S3 access policies cannot enforce fine-grained data access control at the row and column level.

Option B is not a good solution because it involves using Apache Ranger and Apache Pig, which are not fully managed services and require additional configuration and maintenance. Apache Ranger is a framework that provides centralized security administration for data stored in Hadoop clusters, such as Amazon EMR.

Apache Ranger can enforce row-level and column-level access policies for Apache Hive tables. However, Apache Ranger is not a native AWS service and requires manual installation and configuration on Amazon EMR clusters. Apache Pig is a platform that allows you to analyze large data sets using a high-level scripting language called Pig Latin. Apache Pig can access data stored in Amazon S3 and process it using Apache Hive. However, Apache Pig is not a native AWS service and requires manual installation and configuration on Amazon EMR clusters.

Option C is not a good solution because Amazon Redshift is not a suitable service for data lake storage.

Amazon Redshift is a fully managed data warehouse service that allows you to run complex analytical queries using standard SQL. Amazon Redshift can enforce row-level and column-level access policies for different users and groups. However, Amazon Redshift is not designed to store and process large volumes of unstructured or semi-structured data, which are typical characteristics of data lakes. Amazon Redshift is also more expensive and less scalable than Amazon S3 for data lake storage.

References:

- \* AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide
- \* What Is AWS Lake Formation? - AWS Lake Formation
- \* Using AWS Lake Formation with Amazon Athena - AWS Lake Formation
- \* Using AWS Lake Formation with Amazon Redshift Spectrum - AWS Lake Formation
- \* Using AWS Lake Formation with Apache Hive on Amazon EMR - AWS Lake Formation
- \* Using Bucket Policies and User Policies - Amazon Simple Storage Service
- \* Apache Ranger
- \* Apache Pig
- \* What Is Amazon Redshift? - Amazon Redshift

### NEW QUESTION # 180

A company stores logs in an Amazon S3 bucket. When a data engineer attempts to access several log files, the data engineer discovers that some files have been unintentionally deleted.

The data engineer needs a solution that will prevent unintentional file deletion in the future.

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

- **A. Enable S3 Versioning for the S3 bucket.**
- B. Manually back up the S3 bucket on a regular basis.
- C. Configure replication for the S3 bucket.
- D. Use an Amazon S3 Glacier storage class to archive the data that is in the S3 bucket.

**Answer: A**

Explanation:

To prevent unintentional file deletions and meet the requirement with minimal operational overhead, enabling S3 Versioning is the best solution.

\* S3 Versioning:

\* S3 Versioning allows multiple versions of an object to be stored in the same S3 bucket. When a file is deleted or overwritten, S3 preserves the previous versions, which means you can recover from accidental deletions or modifications.

\* Enabling versioning requires minimal overhead, as it is a bucket-level setting and does not require additional backup processes or data replication.

\* Users can recover specific versions of files that were unintentionally deleted, meeting the needs of the data engineer to avoid accidental data loss.

Reference: Amazon S3 Versioning

Alternatives Considered:

A (Manual backups): Manually backing up the bucket requires higher operational effort and maintenance compared to enabling S3 Versioning, which is automated.

C (S3 Replication): Replication ensures data is copied to another bucket but does not provide protection against accidental deletion. It would increase operational costs without solving the core issue of accidental deletion.

D (S3 Glacier): Storing data in Glacier provides long-term archival storage but is not designed to prevent accidental deletion. Glacier is also more suitable for archival and infrequently accessed data, not for active logs.

References:

Amazon S3 Versioning Documentation

S3 Data Protection Best Practices

### NEW QUESTION # 181

A company ingests data from multiple data sources and stores the data in an Amazon S3 bucket. An AWS Glue extract, transform, and load (ETL) job transforms the data and writes the transformed data to an Amazon S3 based data lake. The company uses Amazon Athena to query the data that is in the data lake.

The company needs to identify matching records even when the records do not have a common unique identifier.

Which solution will meet this requirement?

- A. Use Amazon Made pattern matching as part of the ETL job.
- B. Train and use the AWS Glue PySpark Filter class in the ETL job.
- C. Partition tables and use the ETL job to partition the data on a unique identifier.
- **D. Train and use the AWS Lake Formation FindMatches transform in the ETL job.**

**Answer: D**

Explanation:

The problem described requires identifying matching records even when there is no unique identifier. AWS Lake Formation FindMatches is designed for this purpose. It uses machine learning (ML) to deduplicate and find matching records in datasets that do not share a common identifier.

\* D. Train and use the AWS Lake Formation FindMatches transform in the ETL job:

\* FindMatches is a transform available in AWS Lake Formation that uses ML to discover duplicate records or related records that might not have a common unique identifier.

\* It can be integrated into an AWS Glue ETL job to perform deduplication or matching tasks.

\* FindMatches is highly effective in scenarios where records do not share a key, such as customer records from different sources that need to be merged or reconciled.

Reference: AWS Lake Formation FindMatches

Alternatives Considered:

A (Amazon Made pattern matching): Amazon Made is not a service in AWS, and pattern matching typically refers to regular expressions, which are not suitable for deduplication without a common identifier.

B (AWS Glue PySpark Filter class): PySpark's Filter class can help refine datasets, but it does not offer the ML-based matching capabilities required to find matches between records without unique identifiers.

C (Partition tables on a unique identifier): Partitioning requires a unique identifier, which the question states is unavailable.

References:

AWS Glue Documentation on Lake Formation FindMatches

FindMatches in AWS Lake Formation

### NEW QUESTION # 182

A financial company wants to implement a data mesh. The data mesh must support centralized data governance, data analysis, and data access control. The company has decided to use AWS Glue for data catalogs and extract, transform, and load (ETL) operations.

Which combination of AWS services will implement a data mesh? (Choose two.)

- A. Use Amazon RDS for data storage. Use Amazon EMR for data analysis.

- B. Use Amazon Aurora for data storage. Use an Amazon Redshift provisioned cluster for data analysis.
- C. Use Amazon S3 for data storage. Use Amazon Athena for data analysis.
- D. Use AWS Lake Formation for centralized data governance and access control.
- E. Use AWS Glue DataBrew for centralized data governance and access control.

**Answer: C,D**

Explanation:

A data mesh is an architectural framework that organizes data into domains and treats data as products that are owned and offered for consumption by different teams<sup>1</sup>. A data mesh requires a centralized layer for data governance and access control, as well as a distributed layer for data storage and analysis. AWS Glue can provide data catalogs and ETL operations for the data mesh, but it cannot provide data governance and access control by itself<sup>2</sup>. Therefore, the company needs to use another AWS service for this purpose. AWS Lake Formation is a service that allows you to create, secure, and manage data lakes on AWS<sup>3</sup>. It integrates with AWS Glue and other AWS services to provide centralized data governance and access control for the data mesh. Therefore, option E is correct.

For data storage and analysis, the company can choose from different AWS services depending on their needs and preferences. However, one of the benefits of a data mesh is that it enables data to be stored and processed in a decoupled and scalable way<sup>1</sup>. Therefore, using serverless or managed services that can handle large volumes and varieties of data is preferable. Amazon S3 is a highly scalable, durable, and secure object storage service that can store any type of data. Amazon Athena is a serverless interactive query service that can analyze data in Amazon S3 using standard SQL. Therefore, option B is a good choice for data storage and analysis in a data mesh. Option A, C, and D are not optimal because they either use relational databases that are not suitable for storing diverse and unstructured data, or they require more management and provisioning than serverless services. Reference:

1: What is a Data Mesh? - Data Mesh Architecture Explained - AWS

2: AWS Glue - Developer Guide

3: AWS Lake Formation - Features

[4]: Design a data mesh architecture using AWS Lake Formation and AWS Glue

[5]: Amazon S3 - Features

[6]: Amazon Athena - Features

### NEW QUESTION # 183

A company uses Amazon Redshift for its data warehouse. The company must automate refresh schedules for Amazon Redshift materialized views.

Which solution will meet this requirement with the LEAST effort?

- A. Use an AWS Glue workflow to refresh the materialized views.
- B. Use the query editor v2 in Amazon Redshift to refresh the materialized views.
- C. Use an AWS Lambda user-defined function (UDF) within Amazon Redshift to refresh the materialized views.
- D. Use Apache Airflow to refresh the materialized views.

**Answer: C**

Explanation:

The query editor v2 in Amazon Redshift is a web-based tool that allows users to run SQL queries and scripts on Amazon Redshift clusters. The query editor v2 supports creating and managing materialized views, which are precomputed results of a query that can improve the performance of subsequent queries. The query editor v2 also supports scheduling queries to run at specified intervals, which can be used to refresh materialized views automatically. This solution requires the least effort, as it does not involve any additional services, coding, or configuration. The other solutions are more complex and require more operational overhead.

Apache Airflow is an open-source platform for orchestrating workflows, which can be used to refresh materialized views, but it requires setting up and managing an Airflow environment, creating DAGs (directed acyclic graphs) to define the workflows, and integrating with Amazon Redshift. AWS Lambda is a serverless compute service that can run code in response to events, which can be used to refresh materialized views, but it requires creating and deploying Lambda functions, defining UDFs within Amazon Redshift, and triggering the functions using events or schedules. AWS Glue is a fully managed ETL service that can run jobs to transform and load data, which can be used to refresh materialized views, but it requires creating and configuring Glue jobs, defining Glue workflows to orchestrate the jobs, and scheduling the workflows using triggers. References:

\* Query editor V2

\* Working with materialized views

\* Scheduling queries

\* [AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide]

## NEW QUESTION # 184

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