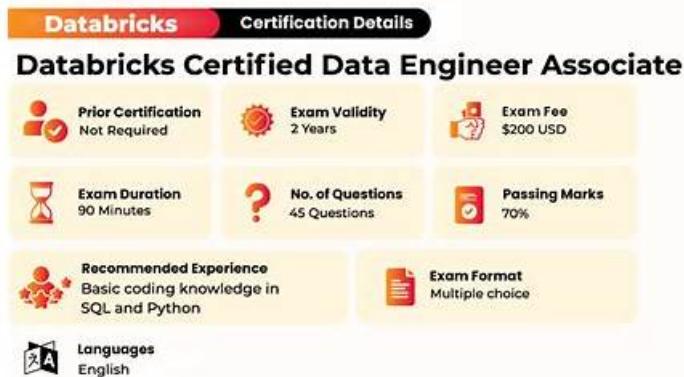# New Data-Engineer-Associate Test Answers | Exam Data-Engineer-Associate Registration

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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q79-Q84):

NEW QUESTION # 79
A company needs to build an extract, transform, and load (ETL) pipeline that has separate stages for batch data ingestion, transformation, and storage. The pipeline must store the transformed data in an Amazon S3 bucket. Each stage must automatically retry failures. The pipeline must provide visibility into the success or failure of individual stages.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Deploy AWS Step Functions workflows to orchestrate AWS Lambda functions that ingest data. Use AWS Glue jobs to transform the data and store the data in the S3 bucket.
- B. Schedule Apache Airflow directed acyclic graphs (DAGs) on Amazon Managed Workflows for Apache Airflow (Amazon MWAA) to orchestrate pipeline steps. Use Amazon Simple Queue Service (Amazon SQS) to ingest data. Use AWS Glue jobs to transform data and store the data in the S3 bucket.

- C. Build an Amazon EventBridge-based pipeline that invokes AWS Lambda functions to perform each stage.
- D. Chain AWS Glue jobs that perform each stage together by using job triggers. Set the MaxRetries field to 0.

Answer: A

Explanation:
Comprehensive and Detailed Explanation (150-250 words)
AWS Step Functions is a fully managed, serverless orchestration service designed to coordinate multiple AWS services into reliable workflows. Step Functions natively provide automatic retries, error handling, state-level visibility, and execution history, which directly satisfy the requirements for retry logic and monitoring individual pipeline stages.
In this solution, AWS Lambda functions are used for batch data ingestion, AWS Glue jobs handle transformation, and Amazon S3 is used for storage. Step Functions orchestrate these stages while maintaining clear separation of responsibilities. Each step can be configured with retry and catch policies, allowing the workflow to automatically recover from transient failures without manual intervention.
Chaining AWS Glue jobs alone does not provide detailed stage-level visibility or flexible retry control, and setting MaxRetries to 0 contradicts the retry requirement. EventBridge-based pipelines lack native workflow state tracking. Amazon MWAA introduces unnecessary operational overhead, including environment management and Airflow maintenance.
Therefore, using AWS Step Functions to orchestrate Lambda and Glue provides the most scalable, observable, and low-maintenance solution.

NEW QUESTION # 80
A data engineer needs to build an enterprise data catalog based on the company's Amazon S3 buckets and Amazon RDS databases. The data catalog must include storage format metadata for the data in the catalog.
Which solution will meet these requirements with the LEAST effort?

- A. Use an AWS Glue crawler to build a data catalog. Use AWS Glue crawler classifiers to recognize the format of data and store the format in the catalog.
- B. Use scripts to scan data elements and to assign data classifications based on the format of the data.
- C. Use Amazon Macie to build a data catalog and to identify sensitive data elements. Collect the data format information from Macie.
- D. Use an AWS Glue crawler to scan the S3 buckets and RDS databases and build a data catalog. Use data stewards to inspect the data and update the data catalog with the data format.

Answer: D

Explanation:
To build an enterprise data catalog with metadata for storage formats, the easiest and most efficient solution is using anAWS Glue crawler. The Glue crawler can scanAmazon S3buckets andAmazon RDSdatabases to automatically create a data catalog that includes metadata such as the schema and storage format (e.g., CSV, Parquet, etc.). By usingAWS Glue crawler classifiers, you can configure the crawler to recognize the format of the data and store this information directly in the catalog.
* Option B: Use an AWS Glue crawler to build a data catalog. Use AWS Glue crawler classifiers to recognize the format of data and store the format in the catalog.This option meets the requirements with the least effort because Glue crawlers automate the discovery and cataloging of data from multiple sources, including S3 and RDS, while recognizing various file formats via classifiers.
Other options (A, C, D) involve additional manual steps, like having data stewards inspect the data, or using services likeAmazon Maciethat focus more on sensitive data detection rather than format cataloging.
References:
AWS Glue Crawler Documentation
AWS Glue Classifiers

NEW QUESTION # 81
An airline company is collecting metrics about flight activities for analytics. The company is conducting a proof of concept (POC) test to show how analytics can provide insights that the company can use to increase on-time departures.
The POC test uses objects in Amazon S3 that contain the metrics in .csv format. The POC test uses Amazon Athena to query the dat a. The data is partitioned in the S3 bucket by date.
As the amount of data increases, the company wants to optimize the storage solution to improve query performance.
Which combination of solutions will meet these requirements? (Choose two.)

- A. Use an S3 bucket that is in the same AWS Region where the company runs Athena queries.
- B. Preprocess the .csv data to JSON format by fetching only the document keys that the query requires.

- C. Preprocess the .csv data to Apache Parquet format by fetching only the data blocks that are needed for predicates.
- D. Add a randomized string to the beginning of the keys in Amazon S3 to get more throughput across partitions.
- E. Use an S3 bucket that is in the same account that uses Athena to query the data.

Answer: A,C

Explanation:
Using an S3 bucket that is in the same AWS Region where the company runs Athena queries can improve query performance by reducing data transfer latency and costs. Preprocessing the .csv data to Apache Parquet format can also improve query performance by enabling columnar storage, compression, and partitioning, which can reduce the amount of data scanned and fetched by the query. These solutions can optimize the storage solution for the POC test without requiring much effort or changes to the existing data pipeline. The other solutions are not optimal or relevant for this requirement. Adding a randomized string to the beginning of the keys in Amazon S3 can improve the throughput across partitions, but it can also make the data harder to query and manage. Using an S3 bucket that is in the same account that uses Athena to query the data does not have any significant impact on query performance, as long as the proper permissions are granted. Preprocessing the .csv data to JSON format does not offer any benefits over the .csv format, as both are row-based and verbose formats that require more data scanning and fetching than columnar formats like Parquet. Reference:
Best Practices When Using Athena with AWS Glue
Optimizing Amazon S3 Performance
AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide

NEW QUESTION # 82
A company needs to optimize storage for an Amazon S3 bucket. Objects older than 1 year must be accessible within 5 hours. All versions of the objects must be retained and immutable for 7 years. All versions of the objects must use the write-once-read-many (WORM) model.
Which solution will meet these requirements?

- A. Configure S3 Versioning on the bucket and use the S3 Intelligent-Tiering storage class. Configure a lifecycle policy for the bucket to transition objects that are older than 1 year to S3 Glacier Deep Archive. Configure the policy to delete objects that are older than 7 years.
- B. Configure S3 Object Lock on the bucket and use the S3 Intelligent-Tiering storage class. Configure a lifecycle policy for the bucket to transition objects that are older than 1 year to S3 Glacier Flexible Retrieval. Configure the policy to delete objects that are older than 7 years.
- C. Configure S3 Versioning on the bucket and use the S3 Intelligent-Tiering storage class. Configure a lifecycle policy for the bucket to transition objects that are older than 1 year to S3 Glacier Flexible Retrieval. Configure the policy to delete objects that are older than 7 years.
- D. Configure S3 Object Lock on the bucket and use the S3 Intelligent-Tiering storage class. Configure a lifecycle policy for the bucket to transition objects that are older than 1 year to S3 Glacier Deep Archive. Configure the policy to delete objects that are older than 7 years.

Answer: B

Explanation:
Comprehensive and Detailed Explanation (150-250 words)
The requirement to retain immutable object versions using a WORM model mandates the use of S3 Object Lock, not just S3 Versioning. Object Lock enforces immutability by preventing deletion or modification of objects for a specified retention period, which is required for compliance scenarios such as regulatory data retention.
To meet the access requirement of retrieving data within 5 hours, the appropriate archival storage class is S3 Glacier Flexible Retrieval, which supports expedited and standard retrieval within minutes to hours. S3 Glacier Deep Archive does not meet this requirement because retrieval times are typically 12 hours or longer.
Using S3 Intelligent-Tiering for active data optimizes storage costs automatically before transitioning older objects. A lifecycle policy can then transition objects older than 1 year to Glacier Flexible Retrieval and delete them after the 7-year retention period expires.
Options that rely only on S3 Versioning do not provide immutability guarantees. Options using Glacier Deep Archive fail the access-time requirement. Therefore, Option C is the only solution that satisfies WORM compliance, retrieval-time constraints, and cost optimization.

NEW QUESTION # 83
A company needs to store semi-structured transactional data in a serverless database.
The application writes data infrequently but reads it frequently, with millisecond retrieval required.

- A. Store the data in an Amazon RDS for MySQL cluster. Configure RDS Optimized Reads.
- B. Store the data in an Amazon S3 Standard bucket. Enable S3 Transfer Acceleration.
- C. Store the data in an Amazon DynamoDB table. Configure a DynamoDB Accelerator (DAX) cache.
- D. Store the data in an Amazon S3 Apache Iceberg table. Enable S3 Transfer Acceleration.

Answer: C

Explanation:
Amazon DynamoDB is a serverless, low-latency, NoSQL database ideal for semi-structured data.
Adding DynamoDB Accelerator (DAX) provides microsecond response times for read-heavy workloads.
"For applications requiring millisecond or sub-millisecond reads with serverless operation, use DynamoDB with DAX caching."
- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf

NEW QUESTION # 84
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