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Below are the free 10 sample questions.

## Question 1:

How does a Delta Lake differ from a traditional data lake?

- A. Delta lake is Datawarehouse service on top of data lake that can provide reliability, security, and performance
- B. Delta lake is a caching layer on top of data lake that can provide reliability, security, and performance
- C. Delta lake is an open storage format like parquet with additional capabilities that can provide reliability, security, and performance
- D. Delta lake is an open storage format designed to replace flat files with additional capabilities that can provide reliability, security, and performance
- E. Delta lake is proprietary software designed by Databricks that can provide reliability, security, and performance

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## Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q75-Q80):

### NEW QUESTION # 75

A company needs to implement a new inventory management system that provides near real-time updates and visibility across all AWS Regions. The new solution must provide centralized access control over data access and permissions. The company has a separate inventory management team assigned to each Region. Each inventory management team needs to update inventory levels. A data engineer must implement Amazon Redshift data sharing with write capabilities. The solution must follow the principle of least privilege.

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

- A. Configure separate Redshift datashares for multiple table types that provide full write access. Distribute the datashares across all Regional clusters. Allow self-managed Regional schema permissions.
- B. Configure a single Redshift datashare from the company's headquarters that provides read-only access for all Regions. Configure a separate AWS Glue ETL job to update data for each Region.
- C. **Configure a single Redshift datashare from the company's headquarters that has selective write permissions for inventory. Set up Regional namespace controls.**
- D. Configure three Regional Redshift datashares that provide full write access. Allow full self-managed access controls.

### Answer: C

Explanation:

Amazon Redshift data sharing now supports bi-directional and selective write access through datashare namespaces. This allows centralized management of permissions from headquarters while giving Regional clusters controlled write access to specific datasets - adhering to least privilege and minimizing admin overhead.

"Use Redshift datashares with write permissions and namespaces to enable controlled cross-Region data collaboration while maintaining centralized governance."

- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf This configuration ensures near real-time inventory updates, centralized access management, and compliance with AWS security best practices.

### NEW QUESTION # 76

A manufacturing company collects sensor data from its factory floor to monitor and enhance operational efficiency. The company uses Amazon Kinesis Data Streams to publish the data that the sensors collect to a data stream. Then Amazon Kinesis Data Firehose writes the data to an Amazon S3 bucket.

The company needs to display a real-time view of operational efficiency on a large screen in the manufacturing facility. Which solution will meet these requirements with the LOWEST latency?

- A. Use AWS Glue bookmarks to read sensor data from the S3 bucket in real time. Publish the data to an Amazon Timestream database. Use the Timestream database as a source to create a Grafana dashboard.
- B. **Use Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) to process the sensor data. Create a new Data Firehose delivery stream to publish data directly to an Amazon Timestream database. Use the Timestream database as a source to create an Amazon QuickSight dashboard.**
- C. Configure the S3 bucket to send a notification to an AWS Lambda function when any new object is created. Use the Lambda function to publish the data to Amazon Aurora. Use Aurora as a source to create an Amazon QuickSight dashboard.
- D. Use Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) to process the sensor data. Use a connector for Apache Flink to write data to an Amazon Timestream database. Use the Timestream database as a source to create a Grafana dashboard.

### Answer: B

Explanation:

This solution will meet the requirements with the lowest latency because it uses Amazon Managed Service for Apache Flink to process the sensor data in real time and write it to Amazon Timestream, a fast, scalable, and serverless time series database. Amazon Timestream is optimized for storing and analyzing time series data, such as sensor data, and can handle trillions of events per day with millisecond latency. By using Amazon Timestream as a source, you can create an Amazon QuickSight dashboard that displays a real-time view of operational efficiency on a large screen in the manufacturing facility. Amazon QuickSight is a fully managed business intelligence service that can connect to various data sources, including Amazon Timestream, and provide

interactive visualizations and insights<sup>123</sup>.

The other options are not optimal for the following reasons:

\* A. Use Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) to process the sensor data. Use a connector for Apache Flink to write data to an Amazon Timestream database. Use the Timestream database as a source to create a Grafana dashboard. This option is similar to option C, but it uses Grafana instead of Amazon QuickSight to create the dashboard.

Grafana is an open source visualization tool that can also connect to Amazon Timestream, but it requires additional steps to set up and configure, such as deploying a Grafana server on Amazon EC2, installing the Amazon Timestream plugin, and creating an IAM role for Grafana to access Timestream.

These steps can increase the latency and complexity of the solution.

\* B. Configure the S3 bucket to send a notification to an AWS Lambda function when any new object is created. Use the Lambda function to publish the data to Amazon Aurora. Use Aurora as a source to create an Amazon QuickSight dashboard. This option is not suitable for displaying a real-time view of operational efficiency, as it introduces unnecessary delays and costs in the data pipeline. First, the sensor data is written to an S3 bucket by Amazon Kinesis Data Firehose, which can have a buffering interval of up to 900 seconds. Then, the S3 bucket sends a notification to a Lambda function, which can incur additional invocation and execution time. Finally, the Lambda function publishes the data to Amazon Aurora, a relational database that is not optimized for time series data and can have higher storage and performance costs than Amazon Timestream.

\* D. Use AWS Glue bookmarks to read sensor data from the S3 bucket in real time. Publish the data to an Amazon Timestream database. Use the Timestream database as a source to create a Grafana dashboard.

This option is also not suitable for displaying a real-time view of operational efficiency, as it uses AWS Glue bookmarks to read sensor data from the S3 bucket. AWS Glue bookmarks are a feature that helps AWS Glue jobs and crawlers keep track of the data that has already been processed, so that they can resume from where they left off. However, AWS Glue jobs and crawlers are not designed for real-time data processing, as they can have a minimum frequency of 5 minutes and a variable start-up time.

Moreover, this option also uses Grafana instead of Amazon QuickSight to create the dashboard, which can increase the latency and complexity of the solution.

References:

\* 1: Amazon Managed Streaming for Apache Flink

\* 2: Amazon Timestream

\* 3: Amazon QuickSight

\* : Analyze data in Amazon Timestream using Grafana

\* : Amazon Kinesis Data Firehose

\* : Amazon Aurora

\* : AWS Glue Bookmarks

\* : AWS Glue Job and Crawler Scheduling

## NEW QUESTION # 77

A company loads transaction data for each day into Amazon Redshift tables at the end of each day. The company wants to have the ability to track which tables have been loaded and which tables still need to be loaded.

A data engineer wants to store the load statuses of Redshift tables in an Amazon DynamoDB table. The data engineer creates an AWS Lambda function to publish the details of the load statuses to DynamoDB.

How should the data engineer invoke the Lambda function to write load statuses to the DynamoDB table?

- A. Use the Amazon Redshift Data API to publish a message to an Amazon Simple Queue Service (Amazon SQS) queue. Configure the SQS queue to invoke the Lambda function.
- B. Use the Amazon Redshift Data API to publish an event to Amazon EventBridge. Configure an EventBridge rule to invoke the Lambda function.
- C. Use a second Lambda function to invoke the first Lambda function based on AWS CloudTrail events.
- D. Use a second Lambda function to invoke the first Lambda function based on Amazon CloudWatch events.

**Answer: A**

Explanation:

The Amazon Redshift Data API enables you to interact with your Amazon Redshift data warehouse in an easy and secure way. You can use the Data API to run SQL commands, such as loading data into tables, without requiring a persistent connection to the cluster. The Data API also integrates with Amazon EventBridge, which allows you to monitor the execution status of your SQL commands and trigger actions based on events.

By using the Data API to publish an event to EventBridge, the data engineer can invoke the Lambda function that writes the load statuses to the DynamoDB table. This solution is scalable, reliable, and cost-effective. The other options are either not possible or not optimal. You cannot use a second Lambda function to invoke the first Lambda function based on CloudWatch or CloudTrail events, as these services do not capture the load status of Redshift tables. You can use the Data API to publish a message to an

SQS queue, but this would require additional configuration and polling logic to invoke the Lambda function from the queue. This would also introduce additional latency and cost. References:

- \* Using the Amazon Redshift Data API
- \* Using Amazon EventBridge with Amazon Redshift
- \* AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 2: Data Store Management, Section 2.2: Amazon Redshift

### NEW QUESTION # 78

A company has three subsidiaries. Each subsidiary uses a different data warehousing solution. The first subsidiary hosts its data warehouse in Amazon Redshift. The second subsidiary uses Teradata Vantage on AWS. The third subsidiary uses Google BigQuery.

The company wants to aggregate all the data into a central Amazon S3 data lake. The company wants to use Apache Iceberg as the table format.

A data engineer needs to build a new pipeline to connect to all the data sources, run transformations by using each source engine, join the data, and write the data to Iceberg.

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

- A. Use the native Amazon Redshift connector, the Java Database Connectivity (JDBC) connector for Teradata, and the open source Apache Spark BigQuery connector to build the pipeline in Amazon EMR. Write code in PySpark to join the data. Run a Merge operation on the data lake Iceberg table.
- B. Use native Amazon Redshift, Teradata, and BigQuery connectors to build the pipeline in AWS Glue. Use native AWS Glue transforms to join the data. Run a Merge operation on the data lake Iceberg table.
- C. Use the native Amazon Redshift, Teradata, and BigQuery connectors in Amazon Appflow to write data to Amazon S3 and AWS Glue Data Catalog. Use Amazon Athena to join the data. Run a Merge operation on the data lake Iceberg table.
- D. Use the Amazon Athena federated query connectors for Amazon Redshift, Teradata, and BigQuery to build the pipeline in Athena. Write a SQL query to read from all the data sources, join the data, and run a Merge operation on the data lake Iceberg table.

### Answer: D

Explanation:

Amazon Athena provides federated query connectors that allow querying multiple data sources, such as Amazon Redshift, Teradata, and Google BigQuery, without needing to extract the data from the original source. This solution is optimal because it offers the least operational effort by avoiding complex data movement and transformation processes.

\* Amazon Athena Federated Queries:

\* Athena's federated queries allow direct querying of data stored across multiple sources, including Amazon Redshift, Teradata, and BigQuery. With Athena's support for Apache Iceberg, the company can easily run a Merge operation on the Iceberg table.

\* The solution reduces complexity by centralizing the query execution and transformation process in Athena using SQL queries.

### NEW QUESTION # 79

A company uses AWS Key Management Service (AWS KMS) to encrypt an Amazon Redshift cluster. The company wants to configure a cross-Region snapshot of the Redshift cluster as part of disaster recovery (DR) strategy.

A data engineer needs to use the AWS CLI to create the cross-Region snapshot.

Which combination of steps will meet these requirements? (Select TWO.)

- A. In the source AWS Region, enable snapshot copying. Specify the name of the snapshot copy grant that is created in the source AWS Region.
- B. Create a KMS key and configure a snapshot copy grant in the destination AWS Region.
- C. Convert the cluster to a Multi-AZ deployment.
- D. In the source AWS Region, enable snapshot copying. Specify the name of the snapshot copy grant that is created in the destination AWS Region.
- E. Create a KMS key and configure a snapshot copy grant in the source AWS Region.

### Answer: A,B

Explanation:

To perform cross-Region snapshot copying of an encrypted Redshift cluster, AWS documentation and the exam study guide clearly outline two essential steps:

\* You must create a snapshot copy grant in the destination Region. This allows Amazon Redshift to encrypt the snapshots using the

specified AWS KMS key.

\* You must enable snapshot copying in the source Region and specify the name of the snapshot copy grant that was created in the destination Region.

From the study guide:

"To enable cross-region copy of encrypted snapshots, you must create a snapshot copy grant in the destination Region and enable snapshot copying in the source Region by specifying the snapshot copy grant name."

-Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf OptionE(Multi-AZ deployment) is not applicable to Amazon Redshift, which does not support Multi-AZ configurations like Amazon RDS.

## NEW QUESTION # 80

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