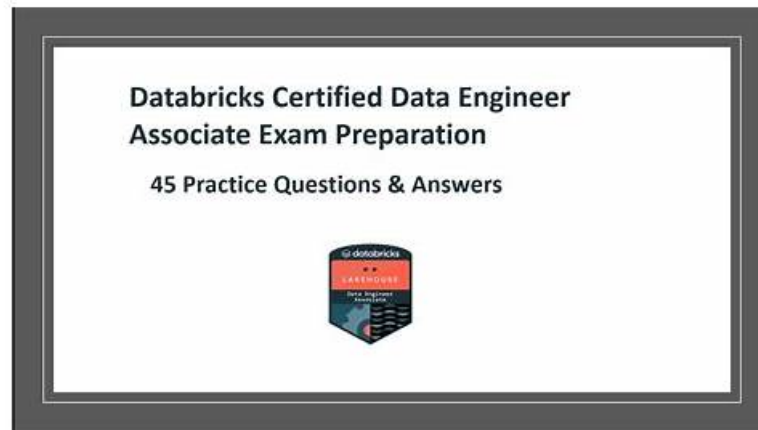


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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q178-Q183):

NEW QUESTION # 178

A company needs to collect logs for an Amazon RDS for MySQL database and make the logs available for audits. The logs must track each user that modifies data in the database or makes changes to the database instance.

Which solution will meet these requirements?

- A. Configure an Amazon EventBridge rule to monitor database activity. Create an AWS Lambda function to process EventBridge events and store them in Amazon OpenSearch Service.
- B. Enable and configure native Amazon RDS database audit logging. Enable Amazon CloudWatch Logs. Configure metric filters and alarms. Configure AWS CloudTrail audit logging.

- C. Configure AWS CloudTrail to log API calls. Use Amazon CloudWatch Logs for basic monitoring. Use IAM policies to control access to the logs. Set up scheduled reporting for log audits.
- D. Enable Amazon CloudWatch Logs. Create metric filters to monitor database changes and instance-level changes. Configure automated notification systems to send near real-time alerts for suspicious database operations.

Answer: B

Explanation:

The correct answer is D: Enable native Amazon RDS database audit logging with CloudWatch and CloudTrail integration.

* Native RDS database audit logging captures SQL-level activities, including which user is modifying data, which is essential for meeting audit requirements.

* Amazon CloudWatch Logs can be used to centralize and store logs.

* CloudTrail logs API calls related to instance-level changes, ensuring all modifications are traceable.

* This approach provides a comprehensive audit trail and supports compliance with security governance policies.

"Enable and configure native Amazon RDS database audit logging. Enable Amazon CloudWatch Logs.

Configure metric filters and alarms. Configure AWS CloudTrail audit logging." Reference: DEA-C01 Official Study Guide - Chapter 7: Data Security and Governance Verified on AWS Docs:

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_LogAccess.Concepts.MySQL.html

NEW QUESTION # 179

A data engineer is building a new data pipeline that stores metadata in an Amazon DynamoDB table. The data engineer must ensure that all items that are older than a specified age are removed from the DynamoDB table daily.

Which solution will meet this requirement with the LEAST configuration effort?

- A. Create an Amazon EventBridge rule that uses a daily cron expression to trigger an AWS Lambda function to delete items that are older than the specified age.
- B. Create a DynamoDB stream that has an AWS Lambda function that reacts to data modifications. Configure the Lambda function to delete items that are older than the specified age.
- C. Add a lifecycle configuration to the DynamoDB table that deletes items that are older than the specified age.
- **D. Enable DynamoDB TTL on the DynamoDB table. Adjust the application source code to set the TTL attribute appropriately.**

Answer: D

Explanation:

DynamoDB Time to Live (TTL) automatically expires and deletes items based on a timestamp attribute - it requires minimal setup and runs without additional infrastructure.

The engineer only needs to define a TTL attribute (e.g., `expiration_time`) and set its epoch value when items are inserted.

"To automatically delete old items from a DynamoDB table, enable TTL and define a timestamp attribute.

Items are removed automatically after the specified time with no extra maintenance."

- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf This is serverless, free, and requires no scheduling or code-based cleanup.

NEW QUESTION # 180

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 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.
- C. 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.

- **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.

Reference: Amazon Athena Federated Query

Alternatives Considered:

A (AWS Glue pipeline): This would work but requires more operational effort to manage and transform the data in AWS Glue.

C (Amazon EMR): Using EMR and writing PySpark code introduces more operational overhead and complexity compared to a SQL-based solution in Athena.

D (Amazon AppFlow): AppFlow is more suitable for transferring data between services but is not as efficient for transformations and joins as Athena federated queries.

References:

Amazon Athena Documentation

Federated Queries in Amazon Athena

NEW QUESTION # 181

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. 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.
- D. 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.

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 insights¹²³.

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.

:

- 1: Amazon Managed Streaming for Apache Flink
- 2: Amazon Timestream
- 3: Amazon QuickSight
- 4: Analyze data in Amazon Timestream using Grafana
- 5: Amazon Kinesis Data Firehose
- 6: Amazon Aurora
- 7: AWS Glue Bookmarks
- 8: AWS Glue Job and Crawler Scheduling

NEW QUESTION # 182

A data engineer is using an AWS Glue ETL job to remove outdated customer records from a table that contains customer account information. The data engineer is using the following SQL command to remove customers that exist in a table named `monthly_accounts_update` from the customer accounts table:

```
MERGE INTO accounts t USING monthly_accounts_update s ON t.customer = s.customer WHEN MATCHED THEN DELETE
```

What will happen when the data engineer runs the SQL command?

- A. All customer records that exist in both the customer accounts table and the `monthly_accounts_update` table will be deleted from the accounts table.
- B. Only customer records that are present in both tables will be retained in the customer accounts table.
- C. The table will be deleted.
- D. No records will be deleted because the command syntax is not valid in AWS Glue.

Answer: A

Explanation:

Option A is correct. The `MERGE INTO` statement is used to conditionally update, insert, or delete rows based on a match condition between a target table and a source table. In this statement, the target table is `accounts` and the source table is `monthly_accounts_update`. The join condition is `t.customer = s.customer`. Because the statement uses `WHEN MATCHED THEN DELETE`, every row in `accounts` that has a matching customer value in `monthly_accounts_update` will be deleted from the target table.

AWS documentation for `MERGE INTO` states that it conditionally updates, deletes, or inserts rows into an Apache Iceberg table, and the syntax explicitly includes `WHEN MATCHED THEN DELETE`. AWS Glue guidance and examples for Iceberg also show `MERGE INTO` as a supported pattern for row-level changes in Glue ETL workflows. This means the syntax is valid for supported Glue-Iceberg use cases, so option D is incorrect. Options B and C are also incorrect because the statement does not retain only matching rows and does not delete the entire table. It deletes only the rows in the target table that satisfy the match condition.

NEW QUESTION # 183

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