

Data-Engineer-Associate인증덤프문제, Data-Engineer-Associate인증시험공부



BONUS!!! ExamPassdump Data-Engineer-Associate 시험 문제집 전체 버전을 무료로 다운로드하세요:
<https://drive.google.com/open?id=1U9GYmqNqsJ1e8G7RrFZmcCt-Kja27NTx>

ExamPassdump덤프를 IT국제인증자격증 시험대비자료중 가장 퍼펙트한 자료로 거듭날수 있도록 최선을 다하고 있습니다. Amazon Data-Engineer-Associate 덤프에는 Amazon Data-Engineer-Associate시험문제의 모든 범위와 유형을 포함하고 있어 시험적중율이 높아 구매한 분이 모두 시험을 패스한 인기덤프입니다.만약 시험문제가 변경되어 시험에서 불합격 받으신다면 덤프비용 전액 환불해드리기에 안심하셔도 됩니다.

ExamPassdump 의 Amazon인증 Data-Engineer-Associate덤프는 PDF버전과 소프트웨어버전 두가지 버전으로 되어있는데 소프트웨어버전은 시뮬레이션버전입니다. 소프트웨어버전의 문제를 푸는 과정은 시험현장을 연상케하여 시험 환경에 먼저 적응하여 실제시험에서 높은 점수를 받도록 도와드릴수 있습니다.

>> Data-Engineer-Associate인증덤프문제 <<

Data-Engineer-Associate인증시험공부, Data-Engineer-Associate최신버전덤프공부문제

ExamPassdump연구한 전문Amazon Data-Engineer-Associate인증시험을 겨냥한 덤프가 아주 많은 인기를 누리고 있습니다. ExamPassdump제공되는 자료는 지식을 장악할 수 있는 반면 많은 경험도 쌓을 수 있습니다. ExamPassdump는 많은 IT인사들의 요구를 만족시켜드릴 수 있는 사이트입니다. 비록Amazon Data-Engineer-Associate인증시험은 어렵지만 우리ExamPassdump의 문제집으로 가이드 하면 여러분은 아주 자신만만하게 응시하실 수 있습니다. 안심하시고 우리 ExamPassdump가 제공하는 알맞춤 문제집을 사용하시고 완벽한Amazon Data-Engineer-Associate인증시험 준비를 하세요.

최신 AWS Certified Data Engineer Data-Engineer-Associate 무료 샘플문제 (Q275-Q280):

질문 # 275

A company maintains multiple extract, transform, and load (ETL) workflows that ingest data from the company's operational databases into an Amazon S3 based data lake. The ETL workflows use AWS Glue and Amazon EMR to process data. The company wants to improve the existing architecture to provide automated orchestration and to require minimal manual effort. Which solution will meet these requirements with the LEAST operational overhead?

- A. AWS Step Functions tasks
- B. AWS Lambda functions
- C. AWS Glue workflows
- D. Amazon Managed Workflows for Apache Airflow (Amazon MWAA) workflows

정답: C

설명:

AWS Glue workflows are a feature of AWS Glue that enable you to create and visualize complex ETL pipelines using AWS Glue components, such as crawlers, jobs, triggers, and development endpoints. AWS Glue workflows provide automated orchestration and require minimal manual effort, as they handle dependency resolution, error handling, state management, and resource allocation for your ETL workflows.

You can use AWS Glue workflows to ingest data from your operational databases into your Amazon S3 based data lake, and then use AWS Glue and Amazon EMR to process the data in the data lake. This solution will meet the requirements with the least operational overhead, as it leverages the serverless and fully managed nature of AWS Glue, and the scalability and flexibility of Amazon EMR12.

The other options are not optimal for the following reasons:

* B. AWS Step Functions tasks. AWS Step Functions is a service that lets you coordinate multiple AWS services into serverless workflows. You can use AWS Step Functions tasks to invoke AWS Glue and Amazon EMR jobs as part of your ETL workflows, and use AWS Step Functions state machines to define the logic and flow of your workflows. However, this option would require more manual effort than AWS Glue workflows, as you would need to write JSON code to define your state machines, handle errors and retries, and monitor the execution history and status of your workflows3.

* C. AWS Lambda functions. AWS Lambda is a service that lets you run code without provisioning or managing servers. You can use AWS Lambda functions to trigger AWS Glue and Amazon EMR jobs as part of your ETL workflows, and use AWS Lambda event sources and destinations to orchestrate the flow of your workflows. However, this option would also require more manual effort than AWS Glue workflows, as you would need to write code to implement your business logic, handle errors and retries, and monitor the invocation and execution of your Lambda functions. Moreover, AWS Lambda functions have limitations on the execution time, memory, and concurrency, which may affect the performance and scalability of your ETL workflows.

* D. Amazon Managed Workflows for Apache Airflow (Amazon MWAA) workflows. Amazon MWAA is a managed service that makes it easy to run open source Apache Airflow on AWS. Apache Airflow is a popular tool for creating and managing complex ETL pipelines using directed acyclic graphs (DAGs).

You can use Amazon MWAA workflows to orchestrate AWS Glue and Amazon EMR jobs as part of your ETL workflows, and use the Airflow web interface to visualize and monitor your workflows.

However, this option would have more operational overhead than AWS Glue workflows, as you would need to set up and configure your Amazon MWAA environment, write Python code to define your DAGs, and manage the dependencies and versions of your Airflow plugins and operators.

References:

- * 1: AWS Glue Workflows
- * 2: AWS Glue and Amazon EMR
- * 3: AWS Step Functions
- * : AWS Lambda
- * : Amazon Managed Workflows for Apache Airflow

질문 # 276

A data engineer is using Amazon Athena to analyze sales data that is in Amazon S3. The data engineer writes a query to retrieve sales amounts for 2023 for several products from a table named sales_data. However, the query does not return results for all of the products that are in the sales_data table. The data engineer needs to troubleshoot the query to resolve the issue.

The data engineer's original query is as follows:

```
SELECT product_name, sum(sales_amount)
FROM sales_data
```

WHERE year = 2023

GROUP BY product_name

How should the data engineer modify the Athena query to meet these requirements?

- A. Change WHERE year = 2023 to WHERE extract(year FROM sales_data) = 2023.
- B. Replace sum(sales amount) with count(*) for the aggregation.
- C. Remove the GROUP BY clause
- D. Add HAVING sum(sales amount) > 0 after the GROUP BY clause.

정답: A

설명:

The original query does not return results for all of the products because the year column in the sales_data table is not an integer, but a timestamp. Therefore, the WHERE clause does not filter the data correctly, and only returns the products that have a null value for the year column. To fix this, the data engineer should use the extract function to extract the year from the timestamp and compare it with 2023. This way, the query will return the correct results for all of the products in the sales_data table. The other options are either incorrect or irrelevant, as they do not address the root cause of the issue. Replacing sum with count does not change the filtering condition, adding HAVING clause does not affect the grouping logic, and removing the GROUP BY clause does not solve the problem of missing products. References:

* Troubleshooting JSON queries - Amazon Athena (Section: JSON related errors)

* When I query a table in Amazon Athena, the TIMESTAMP result is empty (Section: Resolution)

* AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide (Chapter 7, page 197)

질문 # 277

A transportation company wants to track vehicle movements by capturing geolocation records. The records are 10 bytes in size. The company receives up to 10,000 records every second. Data transmission delays of a few minutes are acceptable because of unreliable network conditions.

The transportation company wants to use Amazon Kinesis Data Streams to ingest the geolocation data. The company needs a reliable mechanism to send data to Kinesis Data Streams. The company needs to maximize the throughput efficiency of the Kinesis shards.

Which solution will meet these requirements in the MOST operationally efficient way?

- A. Kinesis SDK
- B. Amazon Data Firehose
- C. Kinesis Agent
- D. Kinesis Producer Library (KPL)

정답: D

설명:

* Problem Analysis:

* The company ingests geolocation records (10 bytes each) at 10,000 records per second into Kinesis Data Streams.

* Data transmission delays are acceptable, but the solution must maximize throughput efficiency.

* Key Considerations:

* The Kinesis Producer Library (KPL) batches records and uses aggregation to optimize shard throughput.

* Efficiently handles high-throughput scenarios with minimal operational overhead.

* Solution Analysis:

* Option A: Kinesis Agent

* Designed for file-based ingestion; not optimized for geolocation records.

* Option B: KPL

* Aggregates records into larger payloads, significantly improving shard throughput.

* Suitable for applications generating small, high-frequency records.

* Option C: Kinesis Firehose

* Firehose is for delivery to destinations like S3 or Redshift and is not optimized for direct ingestion to Kinesis Data Streams.

* Option D: Kinesis SDK

* The SDK lacks advanced features like aggregation, resulting in lower throughput efficiency.

* Final Recommendation:

* Use Kinesis Producer Library (KPL) for its built-in aggregation and batching capabilities.

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Kinesis Producer Library (KPL) Overview

질문 # 278

A data engineer needs to create a new empty table in Amazon Athena that has the same schema as an existing table named old-table.

Which SQL statement should the data engineer use to meet this requirement?

- A.

```
INSERT INTO new_table SELECT * FROM old_table;
```



- B.

```
CREATE TABLE new_table AS (SELECT * FROM old_table) WITH NO DATA;
```



- C.

```
CREATE TABLE new_table AS SELECT * FROM old_table;
```



- D.

```
CREATE TABLE new_table AS SELECT * FROM old_table;
```



정답: B

설명:

Problem Analysis:

The goal is to create a new empty table in Athena with the same schema as an existing table (old_table).

The solution must avoid copying any data.

Key Considerations:

CREATE TABLE AS (CTAS) is commonly used in Athena for creating new tables based on an existing table.

Adding the WITH NO DATA clause ensures only the schema is copied, without transferring any data.

Solution Analysis:

Option A: Copies both schema and data. Does not meet the requirement for an empty table.

Option B: Inserts data into an existing table, which does not create a new table.

Option C: Creates an empty table but does not copy the schema.

Option D: Creates a new table with the same schema and ensures it is empty by using WITH NO DATA.

Final Recommendation:

Use D. CREATE TABLE new_table AS (SELECT * FROM old_table) WITH NO DATA to create an empty table with the same schema.

Reference:

Athena CTAS Queries

CREATE TABLE Statement in Athena

질문 # 279

A company uses Amazon Redshift as a data warehouse solution. One of the datasets that the company stores in Amazon Redshift contains data for a vendor.

Recently, the vendor asked the company to transfer the vendor's data into the vendor's Amazon S3 bucket once each week.

Which solution will meet this requirement?

- A. Create an AWS Lambda function to connect to the Redshift data warehouse. Configure the Lambda function to use the Redshift COPY command to copy the required data to the vendor's S3 bucket on a schedule.
- B. Configure Amazon Redshift Spectrum to use the vendor's S3 bucket as destination. Enable data querying in both directions.
- C. Use the Amazon Redshift data sharing feature. Set the vendor's S3 bucket as the destination. Configure the source to be as a custom SQL query that selects the required data.
- D. Create an AWS Glue job to connect to the Redshift data warehouse. Configure the AWS Glue job to use the Redshift UNLOAD command to load the required data to the vendor's S3 bucket on a schedule.

정답: D

설명:

The Redshift UNLOAD command is specifically designed to export query results to Amazon S3, and AWS Glue can orchestrate this as part of a scheduled job. This is the cleanest and most appropriate approach for recurring weekly data transfers:

"Use the Redshift UNLOAD command with AWS Glue to export data to Amazon S3. This pattern enables routine exports of selected data to external locations."

- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf This avoids complexities of Redshift Spectrum or unsupported use of COPY commands in Lambda.

질문 # 280

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안심하시고 ExamPassdump 를 선택하게 하기 위하여, ExamPassdump에서는 이미 Amazon Data-Engineer-Associate 인증 시험의 일부 문제와 답을 사이트에 올려놨으니 체험해보실 수 있습니다. 그러면 저희한테 신뢰가 갈 것이며 또 망설임 없이 선택하게 될 것입니다. 저희 덤프로 여러분은 한번에 시험을 패스할 수 있으며 또 개인시간도 절약하고 무엇보다도 금전상으로 절약이 제일 크다고 봅니다. ExamPassdump는 여러분들한테 최고의 Amazon Data-Engineer-Associate 문제와 답을 제공함으로 100%로의 보장 도를 자랑합니다, 여러분은 Amazon Data-Engineer-Associate 인증 시험의 패스로 IT업계에서도 또 직장에서도 한층 업그레이드되실 수 있습니다. 여러분의 미래는 더욱더 아름다울 것입니다.

Data-Engineer-Associate 인증 시험 공부 : https://www.exampassdump.com/Data-Engineer-Associate_valid-braindumps.html

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Data-Engineer-Associate 인증 덤프문제 시험 공부

ExamPassdump 덤프자료가 여러분의 시험준비자료로 부족한 부분이 있는지는 구매사이트에서 무료샘플을 다운로드하여 덤프의 일부 문제들을 우선 체험해보시면 됩니다, 만약 시험을 응시하고 싶으시다면 우리의 최신 Amazon Data-Engineer-Associate 최신 시험 덤프자료로 시험 패스하실 수 있습니다.

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