

Data-Engineer-Associate 인기 자격증 시험덤프 공부, Data-Engineer-Associate 최신덤프 데모다운



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Amazon인증 Data-Engineer-Associate시험패스 공부방법을 찾고 있다면 제일 먼저PassTIP를 추천해드리고 싶습니다. Amazon인증 Data-Engineer-Associate시험이 많이 어렵다는것은 모두 알고 있는 것입니다. PassTIP에서 출시한 Amazon인증 Data-Engineer-Associate덤프는 실제시험을 대비하여 연구제작된 멋진 작품으로서 Amazon인증 Data-Engineer-Associate시험적중율이 최고입니다. Amazon인증 Data-Engineer-Associate시험패스를 원하신다면PassTIP의 제품이 고객님의 소원을 들어줄것입니다.

Amazon Data-Engineer-Associate Exam Syllabus Topics:

Section	Weight	Objectives
Data Operations and Support	22%	- Monitor data pipelines 1. Logging and metrics 2. Amazon CloudWatch 3. AWS CloudTrail
		- Manage and troubleshoot data processes 1. Performance tuning 2. Cost optimization 3. Debugging failed jobs
		- Automate data pipelines 1. AWS Lambda triggers 2. Scheduling jobs 3. Event-driven triggers

		- Design data models • 1. Normalization and denormalization • 2. Schema design • 3. Partitioning and indexing strategies - Understand data cataloging • 1. AWS Glue Data Catalog • 2. Schema evolution • 3. Data discovery and classification
Data Store Management	26%	- Manage data lifecycle • 1. Amazon S3 storage classes • 2. Data retention policies • 3. Data archiving - Choose a data store • 1. Access and storage patterns • 2. Data lakes vs. data warehouses • 3. Amazon S3, Amazon RDS, Amazon DynamoDB, Amazon Redshift • 4. Data characteristics (structured, semi-structured, unstructured) - Orchestrate data pipelines • 1. AWS Glue Workflows • 2. Amazon Managed Workflows for Apache Airflow (MWAA) • 3. Event-driven architectures • 4. AWS Step Functions - Transform and process data • 1. Data transformation services (AWS Glue, Amazon EMR, AWS Lambda) • 2. Batch and stream processing • 3. ETL/ELT patterns • 4. Data partitioning and compression
Data Ingestion and Transformation	34%	- Apply programming concepts • 1. Version control • 2. SQL, Python, Scala • 3. Infrastructure as Code (IaC) - Perform data ingestion • 1. Replayability of data • 2. Batch data ingestion (scheduled ingestion, event-driven ingestion) • 3. Throughput and latency characteristics for AWS services • 4. Data ingestion patterns (frequency and data history) • 5. Streaming data ingestion

		- Ensure data encryption • 1. AWS KMS • 2. Encryption at rest and in transit - Implement data quality checks • 1. AWS Glue DataBrew • 2. Data validation
Data Security and Governance	18%	- Apply authentication and authorization • 1. Amazon S3 bucket policies • 2. Service control policies (SCPs) • 3. AWS IAM policies and roles - Manage data privacy and compliance • 1. Data masking and tokenization • 2. PII data handling • 3. AWS Lake Formation permissions

>>> Data-Engineer-Associate 인기자격증 시험덤프공부 <<<

Data-Engineer-Associate 인기자격증 시험덤프공부 덤프 업데이트 버전

성공을 위해 길을 찾고 실패를 위해 구실을 찾지 않는다는 말이 있습니다. Amazon인증 Data-Engineer-Associate 시험이 영어로 출제되어 시험패스가 너무 어렵다 혹은 회사다니느라 공부할 시간이 없다는 등등은 모두 공부하기 싫은 구실에 불과합니다. PassTIP의 Amazon인증 Data-Engineer-Associate 덤프만 마련하면 실패를 성공으로 바꿀수 있는 기적을 체험할수 있습니다. 제일 간단한 방법으로 가장 어려운 문제를 해결해드리는 것이 PassTIP의 취지입니다.

최신 AWS Certified Data Engineer Data-Engineer-Associate 무료 샘플문제 (Q273-Q278):

질문 # 273

A company maintains an Amazon Redshift provisioned cluster that the company uses for extract, transform, and load (ETL) operations to support critical analysis tasks. A sales team within the company maintains a Redshift cluster that the sales team uses for business intelligence (BI) tasks.

The sales team recently requested access to the data that is in the ETL Redshift cluster so the team can perform weekly summary analysis tasks. The sales team needs to join data from the ETL cluster with data that is in the sales team's BI cluster.

The company needs a solution that will share the ETL cluster data with the sales team without interrupting the critical analysis tasks. The solution must minimize usage of the computing resources of the ETL cluster.

Which solution will meet these requirements?

- A. Create materialized views based on the sales team's requirements. Grant the sales team direct access to the ETL cluster.
- B. Unload a copy of the data from the ETL cluster to an Amazon S3 bucket every week. Create an Amazon Redshift Spectrum table based on the content of the ETL cluster.
- C. Set up the sales team BI cluster as a consumer of the ETL cluster by using Redshift data sharing.
- D. Create database views based on the sales team's requirements. Grant the sales team direct access to the ETL cluster.

정답: C

설명:

Redshift data sharing is a feature that enables you to share live data across different Redshift clusters without the need to copy or move data. Data sharing provides secure and governed access to data, while preserving the performance and concurrency benefits of Redshift. By setting up the sales team BI cluster as a consumer of the ETL cluster, the company can share the ETL cluster data with the sales team without interrupting the critical analysis tasks. The solution also minimizes the usage of the computing resources of the ETL cluster, as the data sharing does not consume any storage space or compute resources from the producer cluster. The other options are either not feasible or not efficient. Creating materialized views or database views would require the sales team to have direct access to the ETL cluster, which could interfere with the critical analysis tasks.

Unloading a copy of the data from the ETL cluster to an Amazon S3 bucket every week would introduce additional latency and cost, as well as create data inconsistency issues. References:
Sharing data across Amazon Redshift clusters
AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 2: Data Store Management, Section 2.2: Amazon Redshift

질문 # 274

A company builds a new data pipeline to process data for business intelligence reports. Users have noticed that data is missing from the reports.

A data engineer needs to add a data quality check for columns that contain null values and for referential integrity at a stage before the data is added to storage.

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

- A. Use AWS Glue ETL jobs to perform a SQL transform on the data to determine whether requested columns contain null values. Use a second SQL transform to check referential integrity.
- B. Use Amazon SageMaker Data Wrangler and a custom Python transform to create custom rules to check for null values and referential integrity.
- C. Use AWS Glue ETL jobs to perform a data quality evaluation transform on the data. Use an IsComplete rule on the requested columns. Use a ReferentialIntegrity rule for each join.
- D. Use Amazon SageMaker Data Wrangler to create a Data Quality and Insights report.

정답: C

설명:

AWS Glue Data Quality transforms allow you to define built-in rules like IsComplete for null validation and ReferentialIntegrity for relationship validation—all with minimal code and operational overhead.

"Use AWS Glue Data Quality rules such as IsComplete and ReferentialIntegrity within ETL jobs to automatically validate incoming data."

질문 # 275

A company is planning to upgrade its Amazon Elastic Block Store (Amazon EBS) General Purpose SSD storage from gp2 to gp3. The company wants to prevent any interruptions in its Amazon EC2 instances that will cause data loss during the migration to the upgraded storage.

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

- A. Use AWS DataSync to create new gp3 volumes. Transfer the data from the original gp2 volumes to the new gp3 volumes.
- B. Create new gp3 volumes. Gradually transfer the data to the new gp3 volumes. When the transfer is complete, mount the new gp3 volumes to the EC2 instances to replace the gp2 volumes.
- C. Change the volume type of the existing gp2 volumes to gp3. Enter new values for volume size, IOPS, and throughput.
- D. Create snapshots of the gp2 volumes. Create new gp3 volumes from the snapshots. Attach the new gp3 volumes to the EC2 instances.

정답: C

설명:

Changing the volume type of the existing gp2 volumes to gp3 is the easiest and fastest way to migrate to the new storage type without any downtime or data loss. You can use the AWS Management Console, the AWS CLI, or the Amazon EC2 API to modify the volume type, size, IOPS, and throughput of your gp2 volumes.

The modification takes effect immediately, and you can monitor the progress of the modification using CloudWatch. The other options are either more complex or require additional steps, such as creating snapshots, transferring data, or attaching new volumes, which can increase the operational overhead and the risk of errors. References:

Migrating Amazon EBS volumes from gp2 to gp3 and save up to 20% on costs (Section: How to migrate from gp2 to gp3)

Switching from gp2 Volumes to gp3 Volumes to Lower AWS EBS Costs (Section: How to Switch from GP2 Volumes to GP3

Volumes) Modifying the volume type, IOPS, or size of an EBS volume - Amazon Elastic Compute Cloud (Section: Modifying the volume type)

질문 # 276

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.

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

- B.

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

- C.

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

- D.

```
CREATE TABLE new_table (LIKE old_table);
```

정답: C

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.

Athena CTAS Queries

CREATE TABLE Statement in Athena

질문 # 277

A company has an on-premises PostgreSQL database that contains customer data. The company wants to migrate the customer data to an Amazon Redshift data warehouse. The company has established a VPN connection between the on-premises database and AWS.

The on-premises database is continuously updated. The company must ensure that the data in Amazon Redshift is updated as quickly as possible.

Which solution will meet these requirements?

- A. Create an AWS Database Migration Service (AWS DMS) full-load task. Set Amazon Redshift as the target. Configure the task to use the change data capture (CDC) feature.
- B. Use the pg_dump utility to generate a backup of the PostgreSQL database. Use the AWS Schema Conversion Tool (AWS SCT) to upload the backup to Amazon Redshift. Set up a cron job to perform a backup. Upload the backup to Amazon Redshift every night.
- C. Use the pg_dump utility to generate a backup of the PostgreSQL database. Upload the backup to an Amazon S3 bucket. Use the COPY command to import the data into Amazon Redshift.
- D. Create an AWS Database Migration Service (AWS DMS) full-load task. Set Amazon Redshift as the target. Configure the task to perform a full load of the database to Amazon Redshift every night.

정답: A

설명:

Option B is the only solution that supports near real-time updates from a continuously changing source to Amazon Redshift. The requirement says the on-premises PostgreSQL database is "continuously updated" and the target must be updated "as quickly as possible." Nightly full backups or nightly full loads (Options A and D) inherently introduce at least a daily lag, which violates the freshness requirement. Similarly, exporting with pg_dump and reloading with COPY (Option C) is a batch approach and does not provide continuous change propagation.

The study material explicitly positions AWS Database Migration Service (DMS) for database migrations and highlights that it supports both full-load and change data capture (CDC), and that CDC enables continuous replication so ongoing changes can be applied after the initial load.

Therefore, a DMS task configured for full load + CDC provides the fastest ongoing synchronization pattern: it performs the initial migration and then continuously captures and applies changes so Redshift stays current with minimal delay compared to periodic batch reloads.

질문 # 278

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