

DAA-C01試験感想、DAA-C01日本語版復習資料

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Introduction

1.1 Introduction to AWS Certified Data Engineer – Associate

Welcome to the comprehensive study guide for the AWS Certified Data Engineer – Associate (DEA-C01) Certification Exam. This guide is meticulously designed to help you understand, prepare, and excel in the DEA-C01 exam, a pivotal certification for professionals aiming to demonstrate their expertise in data engineering on the AWS platform.

The certification focuses on validating a candidate's ability to implement, maintain, and optimize data pipelines and solutions in the AWS cloud environment.

1.1.1 Exam Objectives Overview

Domain 1: Data Ingestion and Transformation (34% of scored content)

Data Ingestion and Transformation are central to data engineering. Ingestion involves importing data from various sources into AWS, while transformation refers to converting data into a useful format.

- **AWS Services for Data Ingestion:** AWS offers a range of services like AWS Data Pipeline, AWS Glue, and Amazon Kinesis for efficient data ingestion.
- **Transformation Techniques:** AWS Glue and AWS Lambda are commonly used for transforming data. This includes format conversion, data cleansing, and aggregation.

Example:

Imagine you have a dataset in a CSV format stored in Amazon S3. You use AWS Glue to ingest this data, transform it into a JSON format, and then store the transformed data in Amazon Redshift for analysis.

Table: Key AWS Services for Ingestion & Transformation

Service	Purpose	Key Features
AWS Data Pipeline	Orchestration of data flow	Supports data movement across different AWS services
AWS Glue	ETL service	Serverless, integrates with S3, Redshift
Amazon Kinesis	Real-time data streaming	High throughput, real-time processing

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学習資料が時代に遅れないようにしながら、DAA-C01学習の質問をより専門的にするために多数の専門家を選択しました。もちろん、必要な情報を取得するためにすべてを行っており、より迅速に進めることができます。また、DAA-C01試験トレーニングプロフェッショナルからいつでもサポートを受けることができます。私たちは、DAA-C01テストガイドの専門家の助けを借りて、確実に非常に良い経験を得ることを確信できます。優れた材料と方法は、より少ない労力でより多くの成果を上げるのに役立ちます。DAA-C01テストガイドを選択して、成功に近づきましょう！

多くのIT業界の友達によるとSnowflake認証試験を準備することが多くの時間とエネルギーをかからなければなりません。もし訓練班とオンライン研修などのルートを通じないと試験に合格するのが比較的難しい、一回に合格率非常に低いです。Tech4Examはもっとも頼られるトレーニングツールで、SnowflakeのDAA-C01認定試験の実践テストソフトウェアを提供したり、SnowflakeのDAA-C01認定試験の練習問題と解答もあって、最高で最新のSnowflakeのDAA-C01認定試験「SnowPro Advanced: Data Analyst Certification Exam」問題集も一年間に更新いたします。

>> DAA-C01試験感想 <<

DAA-C01日本語版復習資料、DAA-C01資格認定試験

Snowflake目標を簡単に達成しながら最短時間で試験に合格することは、Tech4Exam一部の試験受験者にとって大きな夢ようです。実際、適切なDAA-C01のSnowPro Advanced: Data Analyst Certification Exam学習教材を使用することで可能になります。練習に適した方法と試験のシラバスに不可欠なものを識別するために、当社の専門家はそれらに多大な貢献をしました。すべてのDAA-C01練習エンジンは、SnowPro Advanced: Data Analyst Certification Exam試験と密接に関連しています。これはあなたにとって素晴らしい機会であることがわかります。

Snowflake SnowPro Advanced: Data Analyst Certification Exam 認定 DAA-C01 試験問題 (Q74-Q79):

質問 # 74

You are tasked with creating a dashboard that displays the average transaction amount for each customer segment. However, sensitive customer information, such as credit card numbers, is stored in the 'TRANSACTIONS' table and protected by Dynamic Data Masking. The masking policy replaces the credit card number with 'XXXX-XXXX-XXXX-XXXX'. The dashboard needs to allow analysts to drill down into individual transactions to identify fraud patterns, but without exposing the actual credit card numbers. Which of the following approaches is the MOST secure and efficient way to achieve this?

- A. Create a stored procedure that executes with 'CALLER rights. The stored procedure queries the 'TRANSACTIONS' table and returns the data. Grant the 'ANALYST ROLE' execute privilege on the stored procedure. This approach bypasses the masking policy but provides more control over which data is displayed during drill-down.
- B. Create a UDF (User-Defined Function) that partially unmask the credit card number, revealing only the last four digits. Apply this UDF in the dashboard when drilling down. This allows analysts to identify patterns while protecting most of the sensitive data.
- C. Create a view that selects all columns from the 'TRANSACTIONS' table. Grant the 'ANALYST ROLE' 'SELECT' privilege on the view. The masking policy will automatically apply, preventing analysts from seeing the actual credit card numbers. Allow drill-down on all available fields.
- D. Create a tokenization service outside of Snowflake. Replace the credit card numbers in the 'TRANSACTIONS' table with tokens. Store the mapping between tokens and credit card numbers securely. Provide the analysts with access to the tokenization service to de-tokenize the credit card numbers only when absolutely necessary for fraud investigation. The dashboard displays the tokenized values, and drill-down leads to a request to the tokenization service.
- E. Create a role hierarchy where the 'ANALYST ROLE' inherits from a 'ROLE' that has the 'APPLY MASKING POLICY' privilege on the column. Grant the 'ANALYST_ROLE' 'SELECT' privilege on the 'TRANSACTIONS' table. This allows drill-down while preserving the masked credit card numbers.

正解: C

解説:

Option A is the most secure and efficient approach. Dynamic Data Masking is designed to automatically apply masking policies to columns when they are queried, regardless of whether the query is executed directly or through a view. This ensures that analysts will always see the masked credit card numbers, preventing unauthorized access to sensitive data. Options C and E introduce external services, while Option D weakens masking and option B does not apply the masking by itself. Role hierarchy is an authorization concept, not a masking concept.

質問 # 75

A Snowflake data pipeline utilizes Snowpipe to ingest data from cloud storage into a staging table. After the data is ingested, a series of transformation tasks process the data and load it into a target table. Due to network connectivity issues, Snowpipe occasionally experiences delays in loading data, causing downstream tasks to fail. Which strategies can be implemented to monitor the latency and improve the resilience of this pipeline?

- A. Implement error handling within the transformation tasks to gracefully handle the case where the staging table is empty and log the error to a dedicated logging table.
- B. Configure a Snowflake resource monitor to track the Snowpipe's credit consumption and trigger alerts when consumption exceeds a threshold.
- C. Increase the 'MAX CONCURRENCY' parameter of the Snowpipe to improve the ingestion rate.
- D. Implement a check within the transformation tasks to verify that the staging table contains data newer than a specific timestamp before proceeding with the transformation. Use ' on the staging table to get the last updated timestamp.
- E. Implement a retry mechanism within the transformation tasks that waits for a specified amount of time and then checks the staging table for new data before proceeding.

正解: A、D、E

解説:

Option A is correct because checking the last updated timestamp allows the task to skip its execution or alert if data isn't timely. Option C is correct as it offers a resilient approach. Option E is also a correct since error logging is a critical part of resilience. Option B addresses throughput, not necessarily latency or resilience related to external issues, increasing concurrency does not guarantee latency improvements if connectivity is the issue. Option D only monitors credit consumption, not pipeline latency.

質問 # 76

When working with CSV, JSON, and Parquet data types in Snowflake, how does selecting the appropriate data format impact query performance and storage efficiency?

- A. Parquet format optimizes query performance and reduces storage requirements
- B. CSV format enhances query performance and minimizes storage needs
- C. All formats have similar impacts on query performance and storage
- D. JSON format accelerates query execution but increases storage requirements

正解: A

解説:

Parquet format in Snowflake optimizes query performance and storage efficiency by enhancing data compression, reducing storage needs, and accelerating query execution compared to other formats like CSV and JSON.

質問 # 77

A data analyst is using a data feed from the Snowflake Marketplace which delivers data in JSON format. They need to create a relational table to store this data, but the JSON structure is deeply nested and contains arrays. Which of the following approaches would be the MOST efficient way to create the table and load the JSON data, taking into consideration performance and minimizing data duplication?

(Choose two)

- A. Create a view on top of the JSON data stored in a single VARIANT column, using JSON path expressions to extract specific fields.
- B. Load the JSON data into a staging table, then use a series of INSERT statements with JSON parsing functions to populate the final relational table.
- C. Create multiple relational tables, flattening the JSON structure using LATERAL FLATTEN and storing related data in separate tables.
- D. Use a stored procedure to parse the JSON data and insert it into a pre-defined relational table.
- E. Create a single table with a VARIANT column to store the entire JSON document.

正解: B、C

解説:

Options B and E are the most efficient. Option B: Using 'LATERAL FLATTEN' allows you to break down the JSON structure into relational tables, minimizing data duplication and improving query performance for specific fields. Option E: Loading the JSON data into a staging table and then using INSERT statements with JSON parsing functions provides a controlled and efficient way to transform and load the data into the final relational table. Option A: While storing the entire JSON in a VARIANT column is easy, it can lead to performance issues for queries that need to access specific fields within the JSON. Option C: Stored procedures can be complex and less efficient than using native Snowflake JSON parsing functions. Option D: Creating views on VARIANT columns can still suffer from performance issues compared to flattened relational tables.

質問 # 78

When customizing data presentations in dashboards through filtering and editing techniques, what benefits do these methods offer?

(Select all that apply)

- A. Improved data accuracy
- B. Simplified data representation
- C. Enhanced data relevancy
- D. Limited data exploration

正解: A、C

解説:

Customization through filtering and editing enhances data accuracy and relevancy in dashboards.

質問 # 79

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現在、多くの事務員は自分自身の能力をアップすることに専念しています。彼らは暇を利用して私たちのDAA-C01学習教材を勉強しています。DAA-C01学習教材は定期的に更新されます。また、私たちはいいサービスを提供します。私たちのDAA-C01学習教材はすごく人気があります。そして、利用した人は全部DAA-C01試験に合格しました。

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