

Snowflake DEA-C01 Prep & test bundle, DEA-C01 Exam Cram pdf,



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Snowflake DEA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• Data Transformation: The SnowPro Advanced: Data Engineer exam evaluates skills in using User-Defined Functions (UDFs), external functions, and stored procedures. It assesses the ability to handle semi-structured data and utilize Snowpark for transformations. This section ensures Snowflake engineers can effectively transform data within Snowflake environments, critical for data manipulation tasks.
Topic 2	• Performance Optimization: This topic assesses the ability to optimize and troubleshoot underperforming queries in Snowflake. Candidates must demonstrate knowledge in configuring optimal solutions, utilizing caching, and monitoring data pipelines. It focuses on ensuring engineers can enhance performance based on specific scenarios, crucial for Snowflake Data Engineers and Software Engineers.
Topic 3	• Security: The Security topic of the DEA-C01 test covers the principles of Snowflake security, including the management of system roles and data governance. It measures the ability to secure data and ensure compliance with policies, crucial for maintaining secure data environments for Snowflake Data Engineers and Software Engineers.
Topic 4	• Data Movement: Snowflake Data Engineers and Software Engineers are assessed on their proficiency to load, ingest, and troubleshoot data in Snowflake. It evaluates skills in building continuous data pipelines, configuring connectors, and designing data sharing solutions.
Topic 5	• Storage and Data Protection: The topic tests the implementation of data recovery features and the understanding of Snowflake's Time Travel and micro-partitions. Engineers are evaluated on their ability to create new environments through cloning and ensure data protection, highlighting essential skills for maintaining Snowflake data integrity and accessibility.

DEA-C01 Pass Test Will Be Your Best Friend to Pass SnowPro Advanced: Data Engineer Certification Exam

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Snowflake SnowPro Advanced: Data Engineer Certification Exam Sample Questions (Q76-Q81):

NEW QUESTION # 76

A company is building data processing pipelines by using AWS Glue. The pipelines access data stored in Amazon S3. The company has organized the data into folders with prefixes that represent different classification levels. The company needs to restrict AWS Glue jobs to access only specific prefixes based on the data classification. The company must also restrict access to business hours (9 AM to 5 PM). Which elements must the company include in a custom IAM policy to meet these requirements?

- A. A Resource element with S3 object Amazon Resource Name (ARN) patterns that use wildcards for each prefix and a Condition element that uses the \$util.time variable with TimeGreaterThan and TimeLessThan operators
- B. A Condition element that uses the s3:ResourceAccount condition key to restrict bucket access and a Deny statement that applies outside of business hours
- C. A Condition element that uses the s3:prefix condition key to restrict folder access and aws:CurrentTime with DateGreaterThanEquals and DateLessThanEquals to restrict hours of operation
- D. A Resource element with S3 object Amazon Resource Name (ARN) patterns that use wildcards for each prefix and a Condition element that uses the aws:CurrentTime condition key with DateGreaterThan and DateLessThan operators

Answer: D

Explanation:

IAM policies can restrict access to specific S3 prefixes by defining object ARNs with wildcard patterns in the Resource element. Time-based access control is implemented using the aws:CurrentTime condition key with DateGreaterThan and DateLessThan operators to enforce business-hour access.

NEW QUESTION # 77

A data engineer creates an AWS Glue Data Catalog table by using an AWS Glue crawler that is named Orders. The data engineer wants to add the following new partitions:

s3://transactions/orders/order_date=2023-01-01

s3://transactions/orders/order_date=2023-01-02

The data engineer must edit the metadata to include the new partitions in the table without scanning all the folders and files in the location of the table.

Which data definition language (DDL) statement should the data engineer use in Amazon Athena?

- A. ALTER TABLE Orders ADD PARTITION(order_date='2023-01-01') LOCATION 's3://transactions/orders/order_date=2023-01-01';
ALTER TABLE Orders ADD PARTITION(order_date='2023-01-02') LOCATION 's3://transactions/orders/order_date=2023-01-02';
- B. REPAIR TABLE Orders;
- C. MSCK REPAIR TABLE Orders;
- D. ALTER TABLE Orders MODIFY PARTITION(order_date='2023-01-01') LOCATION 's3://transactions/orders/2023-01-01';
ALTER TABLE Orders MODIFY PARTITION(order_date='2023-01-02') LOCATION 's3://transactions/orders/2023-01-02';

Answer: A

Explanation:

<https://docs.aws.amazon.com/athena/latest/ug/alter-table-add-partition.html>

NEW QUESTION # 78

You have been tasked with migrating an on-premises MySQL database to Amazon Aurora PostgreSQL using AWS Database Migration Service (DMS). The stakeholder emphasizes that the source database must remain fully operational during the migration process.

Which of the following statements about DMS is accurate with respect to this scenario?

- A. AWS DMS only supports full-load migrations, which would require downtime for the source database.
- B. AWS DMS can convert the MySQL database schema directly to PostgreSQL without any manual intervention.
- C. AWS DMS supports both full-load and continuous replication, allowing the source MySQL database to remain operational during migration.
- D. AWS DMS requires the source MySQL database to be version 5.7 or higher for migrating to Amazon Aurora PostgreSQL.
- E. When using DMS, the target Amazon Aurora PostgreSQL instance cannot be accessed or queried until the migration is complete.

Answer: C

NEW QUESTION # 79

A company generates yearly financial statements for customers and stores the statements in an Amazon S3 bucket. Customers rarely access the documents after 1 week. The company must retain the statements for 7 years. The statements must remain readily accessible for customers.

Which solution will meet these requirements in the MOST cost-effective way?

- A. Create an S3 Lifecycle rule to transition objects to S3 Glacier Instant Retrieval after 7 days. Expire the objects after 7 years.
- B. Create an S3 Lifecycle rule to transition objects to S3 Glacier Deep Archive after 7 days. Expire the objects after 7 years.
- C. Set the S3 bucket to use S3 Glacier Instant Retrieval when new objects are uploaded. Create an AWS Lambda function that runs daily to delete any objects that are older than 7 years.
- D. Set the S3 bucket to use S3 Intelligent-Tiering when new objects are uploaded. Set objects to expire after 7 years.

Answer: A

Explanation:

S3 Glacier Instant Retrieval is the most cost-effective option that still keeps the statements readily accessible because it is designed for archival data that is rarely accessed but must be retrieved immediately, with millisecond access. A lifecycle rule can keep the files in a standard S3 class for the first 7 days, then transition them to Glacier Instant Retrieval for the remainder of the 7-year retention period, and expire them automatically at the end. S3 Glacier Deep Archive is cheaper but does not provide immediate access, and S3 Intelligent-Tiering is less cost-effective here because the access pattern is already known.

Reference:

<https://aws.amazon.com/ru/s3/storage-classes/glacier/instant-retrieval/>

NEW QUESTION # 80

A data engineer needs to use AWS Step Functions to design an orchestration workflow. The workflow must parallel process a large collection of data files and apply a specific transformation to each file.

Which Step Functions state should the data engineer use to meet these requirements?

- A. Wait state
- B. Choice state
- C. Parallel state
- D. Map state

Answer: D

Explanation:

Map state is designed precisely for the requirement described. It allows you to iterate over a collection of items, processing each item individually. The Map state can automatically manage the iteration and execute the specified transformation on each item in parallel, making it the perfect choice for parallel processing of a large collection of data files.

NEW QUESTION # 81

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