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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	• 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 3	• 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.
Topic 4	• 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 5	• 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.

Snowflake SnowPro Advanced: Data Engineer Certification Exam Sample Questions (Q53-Q58):

NEW QUESTION # 53
What are Common Query Problems a Data Engineer can identified using Query Profiler?

- A. Queries Too Large to Fit in Memory
- B. "Exploding" Joins i.e Joins resulting due to a "Cartesian product"
- C. Inefficient Pruning
- D. Ineffective Data Sharing

Answer: A,B,C

Explanation:
Explanation
"Exploding" Joins
One of the common mistakes SQL users make is joining tables without providing a join condition (resulting in a "Cartesian product"), or providing a condition where records from one table match multiple records from another table. For such queries, the Join operator produces significantly (often by orders of magnitude) more tuples than it consumes.
This can be observed by looking at the number of records produced by a Join operator in the profile interface, and typically is also reflected in Join operator consuming a lot of time.
Queries Too Large to Fit in Memory
For some operations (e.g. duplicate elimination for a huge data set), the amount of memory available for the compute resources used to execute the operation might not be sufficient to hold intermediate results. As a result, the query processing engine will start spilling the data to local disk. If the local disk space is not sufficient, the spilled data is then saved to remote disks.

This spilling can have a profound effect on query performance (especially if remote disk is used for spilling).
Spilling statistics can be checked in Query Profile Interface.
Inefficient Pruning
Snowflake collects rich statistics on data allowing it not to read unnecessary parts of a table based on the query filters. However, for this to have an effect, the data storage order needs to be correlat-ed with the query filter attributes.
The efficiency of pruning can be observed by comparing Partitions scanned and Partitions total sta-tistics in the TableScan operators. If the former is a small fraction of the latter, pruning is efficient. If not, the pruning did not have an effect.
Of course, pruning can only help for queries that actually filter out a significant amount of data. If the pruning statistics do not show data reduction, but there is a Filter operator above TableScan which filters out a number of records, this might signal that a different data organization might be beneficial for this query.

NEW QUESTION # 54
A company built a data lake and a data warehouse on AWS. The company wants to implement a data catalog to enhance the current data storage solutions. The company wants to have the capability to add business metadata and glossary information to the data catalog for every asset.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Use an Apache Hive metastore. Create a user table for the business glossary. Use the ALTER TABLE command to change table properties to add business metadata. Create a web application to access the metadata.
- B. Use Amazon OpenSearch Service. Create an index for the business glossary. Create a second index for the business metadata. Use the OpenSearch Service dashboard to access the metadata.
- C. Use AWS Glue Catalog. Create a user table for the business glossary. Use the AWS Glue API to change table properties to add business metadata. Create a web application to access the metadata.
- D. Use Amazon DataZone. Create the business glossaries. Create metadata forms. Use the Amazon DataZone data portal to access the metadata.

Answer: D

Explanation:
Amazon DataZone provides a fully managed data catalog and governance service with built-in support for business glossaries, custom metadata forms, and a user-friendly data portal. You can onboard your existing data assets, define glossaries, and capture business metadata without building or maintaining custom tables, APIs, or applications, minimizing operational overhead.

NEW QUESTION # 55
A Data Engineer is building a set of reporting tables to analyze consumer requests by region for each of the Data Exchange offerings annually, as well as click-through rates for each listing Which views are needed MINIMALLY as data sources?

- A. SNOWFLAKE.DATA_SHARING_USAGE.LISTING_CONSOKE>TION_DAILY
- B. SNOWFLAKE- DATA_SHARING_USAGE - LISTING_EVENTS_BAILY
- C. SNOWFLAKE.ACCOUNT_USAGE.DATA _TRANSFER_HISTORY
- D. SNOWFLAKE. DATA_SHARING_USAGE. LISTING_TELEMETRY_DAILy

Answer: A

Explanation:
Explanation
The SNOWFLAKE.DATA SHARING _USAGE.LISTING_CONSOKE>TION_DAILY view provides information about consumer requests by region for each of the Data Exchange offeringsannually, as well as click-through rates for each listing. This view is the minimal data source needed for building the reporting tables. The other views are not relevant for this use case.

NEW QUESTION # 56
A data engineer needs to create an AWS Lambda function that converts the format of data from .csv to Apache Parquet. The Lambda function must run only if a user uploads a .csv file to an Amazon S3 bucket.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Create an S3 event notification that has an event type of s3:*. Use a filter rule to generate notifications only when the suffix includes .csv. Set the Amazon Resource Name (ARN) of the Lambda function as the destination for the event notification.

- B. Create an S3 event notification that has an event type of s3:ObjectTagging:* for objects that have a tag set to .csv. Set the Amazon Resource Name (ARN) of the Lambda function as the destination for the event notification.
- C. Create an S3 event notification that has an event type of s3:ObjectCreated:*. Use a filter rule to generate notifications only when the suffix includes .csv. Set an Amazon Simple Notification Service (Amazon SNS) topic as the destination for the event notification. Subscribe the Lambda function to the SNS topic.
- D. Create an S3 event notification that has an event type of s3:ObjectCreated:*. Use a filter rule to generate notifications only when the suffix includes .csv. Set the Amazon Resource Name (ARN) of the Lambda function as the destination for the event notification.

Answer: D

Explanation:
This solution directly triggers the Lambda function only when a .csv file is uploaded to the S3 bucket, minimizing unnecessary invocations of the Lambda function. It uses a specific event type (s3:ObjectCreated:*) and a filter rule to ensure that the Lambda function is invoked only for relevant events. Additionally, it directly invokes the Lambda function without the need for additional services like Amazon SNS, reducing operational overhead.

NEW QUESTION # 57
In efforts to recover the dropped child tables within schema named SCV_SCHEMA by Data Engi-neer, She found that DATA_RETENTION_TIME_IN_DAYS parameter set with value 45 days at Schema level &the data retention period for child tables explicitly set at 85 days. What will happen when she will try to run undrop table command on Child tables to recover them on the 50th day as-suming SCV_SCHEMA is already dropped on 45th day?

- A. Child tables can be recovered using Fail-Safe SQL commands.
- B. To honor the data retention period for child tables, She will ab able to recover the child tables on 50th day as DATA_RETENTION_TIME_IN_DAYS is explicitly set with higher retention value.
- C. When a schema is already dropped, the data retention period for child tables, if explicit-ly set to be different from the retention of the schema, is not honoured. So UNDROP command will fail to run on 50th day for Child tables recovery.
- D. Data Engineer needs to first recover the Schema & then Child tables will automatically be recovered irrespective of Retention Inheritance.

Answer: C

Explanation:
Explanation
Dropped Containers and Object Retention Inheritance
Currently, when a database is dropped, the data retention period for child schemas or tables, if ex-plicitly set to be different from the retention of the database, is not honored. The child schemas or tables are retained for the same period of time as the database.
Similarly, when a schema is dropped, the data retention period for child tables, if explicitly set to be different from the retention of the schema, is not honored. The child tables are retained for the same period of time as the schema.
To honor the data retention period for these child objects (schemas or tables), drop them explicitly before you drop the database or schema.

NEW QUESTION # 58
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