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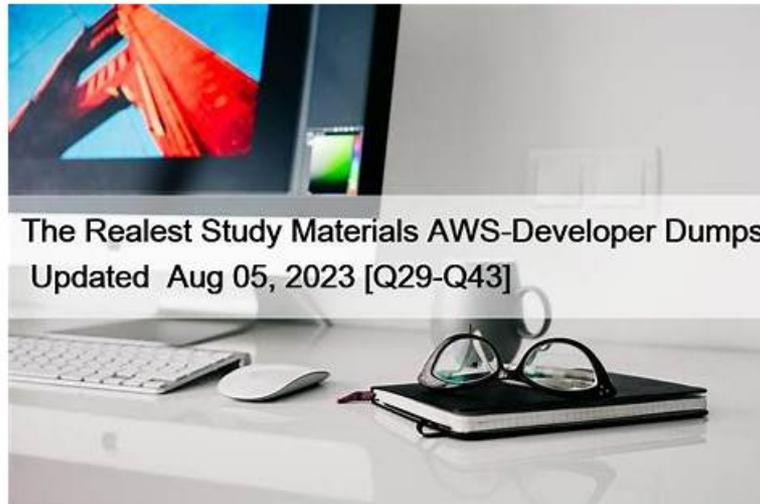

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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q22-Q27):

NEW QUESTION # 22
A data engineering team is tasked with optimizing a complex query that joins three tables: 'ORDERS' , 'CUSTOMERS' , and 'PRODUCTS. The 'ORDERS' table contains millions of records and is frequently joined with 'CUSTOMERS' (containing customer demographics) and 'PRODUCTS' (containing product details). The initial query uses standard JOIN syntax, but performance is slow. The query retrieves order details along with customer and product information, filtering by a specific date range in the 'ORDERS' table and a customer segment in the 'CUSTOMERS table. Which optimization strategy would be MOST effective for significantly improving query performance?

- A. Increase the virtual warehouse size to X-LARGE without analyzing the query profile.
- B. Replace the standard JOINs with LATERAL FLATTEN operations.
- C. Apply clustering keys to the 'ORDERS table based on the date column used in the WHERE clause and clustering keys to

the 'CUSTOMERS' table on the customer segment column. Also create appropriate indexes.
- D. Create materialized views that pre-join the 'ORDERS', 'CUSTOMERS, and 'PRODUCTS tables and filter based on common criteria.
- E. Convert the entire dataset into a single VARIANT column and query using JSON path expressions.

Answer: C,D

Explanation:
Materialized views can pre-compute the joined data and apply filters, significantly reducing the amount of data the query needs to process at runtime. Clustering keys on the frequently filtered columns in 'ORDERS' and 'CUSTOMERS' will enable data skipping, allowing Snowflake to efficiently prune micro-partitions. Creating indexes is not directly supported in Snowflake, however Clustering is equivalent to Indexing strategy. Increasing warehouse size without analysis is not an appropriate strategy. Lateral Flatten is relevant when dealing with array or semi- structured data, and converting the data into VARIANT would severely impact query performance.

NEW QUESTION # 23
You are working on a Snowpark Python application that needs to process a stream of data from Kafka, perform real-time aggregations, and store the results in a Snowflake table. The data stream is highly variable, with occasional spikes in traffic that overwhelm your current Snowpark setup, leading to significant latency in processing. Which of the following strategies, either individually or in combination, would be MOST effective to handle these traffic spikes and ensure near real-time processing?

- A. Configure the Snowflake warehouse used by your Snowpark application to use auto-suspend and auto-resume with a short auto-suspend time to minimize costs during periods of low traffic.
- B. Implement dynamic warehouse scaling. Utilize Snowflake's Resource Monitors and the ability to programmatically resize warehouses through Snowpark. Monitor the queue depth or latency of your Snowpark application, and dynamically scale up the warehouse size when thresholds are exceeded. Then, scale it back down when traffic subsides.
- C. Use 'CACHE RESULT for all queries in snowpark that use Kafka
- D. Implement a message queuing system (e.g., RabbitMQ, Kafka) between Kafka and your Snowpark application to buffer incoming data during traffic spikes.
- E. Use Snowpark's async actions (e.g., to offload data processing to separate threads or processes, allowing your main Snowpark application to continue receiving data.

Answer: B,D

Explanation:
Options A and D offer the best approach. Implementing a message queue (A) provides a buffer for incoming data during spikes, preventing your Snowpark application from being overwhelmed. Dynamic warehouse scaling (D) allows you to automatically increase the compute resources available to your Snowpark application when needed, ensuring it can handle the increased workload. Auto suspend/resume (B) is good for cost optimization but doesn't address the processing capacity during spikes. Async actions (C) can help, but are not as scalable or resilient as a proper message queue combined with dynamic warehouse scaling. Caching results (E) is irrelevant since the data from Kafka is always changing.

NEW QUESTION # 24
You are tasked with creating a development environment from a production database in Snowflake. The production database is named 'PROD DB' and contains several schemas, including 'CUSTOMER DATA' and 'PRODUCT DATA'. You want to create a clone of the 'PROD DB' database named 'DEV DB', but you only need the 'CUSTOMER DATA' schema for development purposes and all the data should be masked with a custom UDF 'MASK EMAIL' for 'email' column in 'CUSTOMER' table. The 'email' column is VARCHAR. Which of the following sequences of SOL statements would achieve this in Snowflake? Note: UDF MASK EMAIL already exists in the account.

- A.
```
CREATE DATABASE DEV_DB CLONE PROD_DB;
DROP SCHEMA DEV_DB.PRODUCT_DATA;
CREATE OR REPLACE TABLE DEV_DB.CUSTOMER_DATA.CUSTOMER AS
SELECT   FROM PROD_DB.CUSTOMER_DATA.CUSTOMER;
UPDATE DEV_DB.CUSTOMER_DATA.CUSTOMER SET email = MASK_EMAIL(email);
```

```
CREATE DATABASE DEV_DB CLONE PROD_DB;
DROP SCHEMA DEV_DB.PRODUCT_DATA;
CREATE OR REPLACE TABLE DEV_DB.CUSTOMER_DATA.CUSTOMER AS
SELECT   ,
MASK_EMAIL(email) as email
FROM PROD_DB.CUSTOMER_DATA.CUSTOMER;
ALTER TABLE DEV_DB.CUSTOMER_DATA.CUSTOMER DROP COLUMN email;
ALTER TABLE DEV_DB.CUSTOMER_DATA.CUSTOMER ADD COLUMN email VARCHAR;
```

- B.
```
CREATE DATABASE DEV_DB CLONE PROD_DB;
DROP SCHEMA DEV_DB.PRODUCT_DATA;
CREATE OR REPLACE VIEW DEV_DB.CUSTOMER_DATA.CUSTOMER AS
SELECT   ,
MASK_EMAIL(email) as email
```
- C. FROM PROD_DB.CUSTOMER_DATA.CUSTOMER;
- D.
```
CREATE DATABASE DEV_DB CLONE PROD_DB;
DROP SCHEMA DEV_DB.PRODUCT_DATA;
CREATE OR REPLACE TABLE DEV_DB.CUSTOMER_DATA.CUSTOMER CLONE PROD_DB.CUSTOMER_DATA.CUSTOMER;
ALTER TABLE DEV_DB.CUSTOMER_DATA.CUSTOMER
MODIFY COLUMN email SET MASKING POLICY mask_email;
```
```
CREATE DATABASE DEV_DB CLONE PROD_DB;
DROP SCHEMA DEV_DB.PRODUCT_DATA;
CREATE OR REPLACE TABLE DEV_DB.CUSTOMER_DATA.CUSTOMER AS
SELECT   ,
MASK_EMAIL(email) as email
```
- E. FROM PROD_DB.CUSTOMER_DATA.CUSTOMER:

Answer: D

Explanation:
Option B is the most appropriate solution. It clones the entire production database, drops the unnecessary schema, then clone table from PROD and after cloning, it uses masking policy on email column on the cloned DEV environment. Option A is incorrect because you cannot use MASK EMAIL while createing the table. Option C requires to drop and add column again, option D, using a view will not permanently mask data at the storage level. And Option E updates the table after cloning, which consumes resources and isn't as elegant as using a masking policy.

NEW QUESTION # 25
A data engineering team is running a series of complex analytical queries against a large Snowflake table. They notice that query performance is inconsistent, with some queries running much slower than others. After investigation, they determine that the queries are not properly leveraging the data clustering. Which of the following actions could improve the query performance related to the data clustering? Select all that apply.

- A. Run 'ALTER TABLE DROP CLUSTERING KEY to remove the existing clustering key and allow Snowflake to automatically cluster the data.
- B. Run 'SHOW TABLES LIKE ' ' and review the 'clustering_information' column to understand the current clustering depth and benefit.
- C. Increase the virtual warehouse size to improve the performance of all queries, regardless of clustering.
- D. Execute SYSTEM$CLUSTERING INFORMATION(')' y to assess the impact of clustering on query performance and determine if re-clustering is needed.
- E. Run 'ALTER TABLE CLUSTER BY (columnl, column2Y to explicitly define a clustering key on the table.

Answer: B,D,E

Explanation:
Option A is correct because explicitly defining a clustering key allows Snowflake to optimize data organization for common query patterns. Option C is correct because understanding the current clustering state helps diagnose if clustering is effective. Option E is correct, using SYSTEM$CLUSTERING INFORMATION is a crucial method to determine reclustering needs. Option B can worsen performance, especially if the automatic clustering does not align with common query patterns. Option D may improve performance to a small extend but doesn't directly address the clustering issue.

NEW QUESTION # 26
You have a Snowflake stage pointing to an external cloud storage location containing numerous Parquet files. A directory table is created on top of it. Over time, some files are deleted or moved from the external location. You notice discrepancies between the directory table's metadata and the actual files present in the storage location. Choose the option that best describes how Snowflake handles these discrepancies and the actions you should take.

- A. Snowflake requires you to drop and recreate the directory table periodically to synchronize the metadata with the external storage. Using 'ALTER DIRECTORY TABLE REFRESH' will not remove deleted files from the directory table's metadata. However, these invalid files wont be shown in select unless explicitly used.
- B. Snowflake automatically updates the directory table in real-time, reflecting the changes immediately. No action is needed.
- C. Snowflake does not automatically detect these changes. You must manually refresh the directory table using 'ALTER DIRECTORY TABLE ... REFRESH' to synchronize the metadata. Snowflake does not provide an automated cleanup of metadata associated with removed files.
- D. Snowflake automatically detects deleted files and marks them as 'invalid' in the directory table. Queries will automatically exclude these invalid files.
- E. Snowflake does not track file deletions. If a file is deleted from cloud storage after being added to a directory table, Snowflake continues to reference the deleted file, potentially causing errors during data loading. Run 'VALIDATE on the directory table.

Answer: E

Explanation:
Snowflake's directory tables do not automatically reflect changes in external storage due to file deletions. The 'ALTER DIRECTORY TABLE ... REFRESH' command updates the metadata, but it doesn't automatically remove entries for deleted files. Attempting to load data from a deleted file will likely result in errors. Running 'VALIDATE on the directory table will identify the files that no longer exist in the external stage. Options A, B, C, and D are incorrect because they misrepresent how Snowflake manages changes in the underlying storage.

NEW QUESTION # 27
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