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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q280-Q285):

NEW QUESTION # 280

You are tasked with creating an external function in Snowflake that calls a REST API. The API requires a bearer token for authentication, and the function needs to handle potential network errors and API rate limiting. Which of the following code snippets demonstrates the BEST practices for defining and securing this external function, including error handling?

```

○ CREATE OR REPLACE EXTERNAL FUNCTION api_caller(input VARCHAR) RETURNS VARCHAR RETURNS NULL ON NULL INPUT VOLATILE MAX_BATCH_ROWS = 100 ENDPOINT =
  'https://api.example.com/data' AS 'python' IMPORTS = ('@my_stage/api_caller.py') WITH (SECURITY_INTEGRATION = my_security_integration);

○ CREATE OR REPLACE EXTERNAL FUNCTION api_caller(input VARCHAR) RETURNS VARCHAR RETURNS NULL ON NULL INPUT VOLATILE MAX_BATCH_ROWS = 100 ENDPOINT =
  'https://api.example.com/data' CREDENTIAL = (IDENTITY = 'my_identity', PASSWORD = 'my_password') AS 'python' IMPORTS = ('@my_stage/api_caller.py');

○ CREATE OR REPLACE EXTERNAL FUNCTION api_caller(input VARCHAR) RETURNS VARIANT RETURNS NULL ON NULL INPUT VOLATILE MAX_BATCH_ROWS = 100 ENDPOINT =
  'https://api.example.com/data' AUTHN_POLICY = (TYPE = 'CUSTOM', SECRET = 'api_secret') AS 'python' IMPORTS = ('@my_stage/api_caller.py'); CREATE OR
  REPLACE SECRET api_secret TYPE = GENERIC_STRING ENCRYPTED_VALUE = '';

○ CREATE OR REPLACE EXTERNAL FUNCTION api_caller(input VARCHAR) RETURNS VARIANT RETURNS NULL ON NULL INPUT VOLATILE MAX_BATCH_ROWS = 100 ENDPOINT =
  'https://api.example.com/data' AUTHN_POLICY = (TYPE = 'CUSTOM', SECRET = 'api_secret') AS 'python' IMPORTS = ('@my_stage/api_caller.py') USING
  (SYSTEM$GET_SECRET('my_database.my_schema.api_secret'));

○ CREATE OR REPLACE EXTERNAL FUNCTION api_caller(input VARCHAR) RETURNS VARIANT RETURNS NULL ON NULL INPUT VOLATILE MAX_BATCH_ROWS = 100 ENDPOINT =
  'https://api.example.com/data' AS 'python' IMPORTS = ('@my_stage/api_caller.py') WITH (SECURITY_INTEGRATION = my_security_integration)
CONTEXT_HEADERS = (('Authorization', 'Bearer ' || SYSTEM$GET_SECRET('my_database.my_schema.api_secret'))); CREATE OR REPLACE SECRET api_secret TYPE =
  GENERIC_STRING ENCRYPTED_VALUE = '';

```

- A. Option A
- B. Option D
- C. Option B
- D. Option E
- E. Option C

Answer: D

Explanation:

Option A uses SECURITY_INTEGRATION, which is suitable for cloud provider-managed security but doesn't directly handle the API key. Option B uses CREDENTIAL, which is deprecated. Option C and D use AUTHN_POLICY and SECRET, but C doesn't use SYSTEM\$GET_SECRET within a 'USING' clause or CONTEXT_HEADERS. Option D uses the 'USING' clause but does not use 'CONTEXT_HEADERS' to pass the token correctly. Option E is the BEST approach because it utilizes 'SECURITY_INTEGRATION' along with 'CONTEXT_HEADERS' to pass the Bearer token securely retrieved from the Snowflake secret, ensuring proper authentication. Using CONTEXT_HEADERS allows setting the authorization header directly. Also, it's important to create the 'SECRET api_secret' for this code to work correctly and this option uses it.

NEW QUESTION # 281

A large e-commerce company uses Snowflake to store website clickstream data in a table named 'WEB EVENTS'. This table is partitioned using the 'EVENT DATE' column. The company needs to analyze user behavior across different devices. A common query involves joining 'WEB EVENTS' with a smaller 'USER DEVICES' table (containing user-to-device mappings) to determine the device type for each event. However, the performance of this join operation is poor, especially when filtering 'WEB EVENTS' by a specific date range. The 'USER DEVICES' table is small enough to fit in memory. What is the most effective approach to optimize this query for performance?

- A. Convert the 'WEB EVENTS' table to use a VARIANT data type and query with JSON path expressions.
- B. Use a 'LATERAL FLATTEN' function to process the data in parallel.
- C. Broadcast the 'USER DEVICES' table to all compute nodes before performing the join. (Hint: Consider using 'BROADCAST hint')
- D. Use a standard 'JOIN' operation between 'WEB EVENTS' and 'USER DEVICES' without any modifications.
- E. Create a materialized view that pre-joins 'WEB EVENTS' and 'USER DEVICES' tables without filtering

Answer: C

Explanation:

Since the 'USER_DEVICES' table is small, broadcasting it to all compute nodes allows Snowflake to perform a local join, avoiding network transfers and significantly improving performance. Using the 'BROADCAST hint' will make use of this functionality. Standard join will not be efficient. 'LATERAL FLATTEN' is for semi-structured data. While Materialized views improve performance, here Broadcasting is the most cost effective. Using VARIANT data type and JSON path expression slows down the query.

NEW QUESTION # 282

You have a table named 'EVENT LOGS' with columns including 'EVENT ID', 'EVENT TIMESTAMP', 'USER ID', 'EVENT_TYPE', and 'EVENT DATA' (which stores JSON data). Users frequently query the table filtering by specific key-value pairs within the 'EVENT DATA' column. Which of the following approaches will BEST improve query performance when filtering on

values inside the JSON column, considering the use of search optimization?

- A. Create a materialized view that extracts the key-value pairs from the 'EVENT_DATX' column and enable search optimization on the materialized view's columns.
- B. Convert the 'EVENT_DATX' column to a VARCHAR column and enable search optimization on it.
- C. Enable search optimization directly on the 'EVENT DATA' column.
- D. Increase the warehouse size.
- E. Extract the frequently queried key-value pairs from the 'EVENT_DATR JSON' into separate virtual columns and enable search optimization on these virtual columns.

Answer: E

Explanation:

Extracting the frequently queried key-value pairs into separate virtual columns and then enabling search optimization on these columns is the most effective approach (Option B). Snowflake's search optimization works best on columns with well-defined data types. Direct search optimization on a JSON column (Option A) is not directly supported and will not provide the desired performance benefits. Materialized views (Option C) are an option, but virtual columns are generally more lightweight for this scenario. Converting to VARCHAR (Option D) is not the correct approach for JSON data and would prevent proper JSON parsing and filtering. Increasing the warehouse size (Option E) might improve overall performance but doesn't specifically address the JSON filtering bottleneck.

NEW QUESTION # 283

You're tasked with optimizing a Snowflake data pipeline that transforms and loads data into a target table. The pipeline uses a series of complex SQL queries with multiple joins and aggregations. After analyzing the query execution plans, you identify a few key bottlenecks. Which of the following optimization techniques would MOST directly address common performance bottlenecks in such a data pipeline within Snowflake?

- A. Utilizing materialized views to pre-compute and store the results of expensive aggregations, and ensuring the query optimizer rewrites queries to use the materialized views where applicable.
- B. Increasing the virtual warehouse size to the largest available option (e.g., X-Large). The bigger the warehouse, the faster all queries will run.
- C. Converting all SQL queries to use stored procedures for improved performance and security. Stored procedures execute faster than ad-hoc SQL.
- D. Applying appropriate clustering keys to the target table, ensuring that commonly used filter columns are included in the clustering key definition.
- E. Disabling the query result cache to ensure that the most up-to-date data is always used.

Answer: A,D

Explanation:

Options B and D are the most effective. Clustering keys optimize data retrieval based on filter conditions, significantly improving query performance, and materialized views reduce compute costs by storing pre-computed data and the optimizer rewrites to use it where possible, reducing processing time for queries that require those aggregations. Option A is a brute force approach that may not be cost effective. Option C is generally incorrect because it is not the most cost efficient method. Option E would negatively affect performance.

NEW QUESTION # 284

You are tasked with setting up a Kafka Connector to ingest data into Snowflake. You need to ensure fault tolerance. Which of the following Kafka Connect configurations are essential for enabling fault tolerance and ensuring minimal data loss during connector failures? Select all that apply.

- A. Configure 'errors.tolerance' to 'all'.
- B. Utilize Snowflake's auto-ingest feature alongside the Kafka Connector.
- C. Enable Kafka Connect's internal offset storage by configuring 'offset.storage.topic' and 'config.storage.topic'.
- D. Set 'tasks.max' to a value greater than 1.
- E. Configure 'errors.deadletterqueue.topic.name' to specify a Dead Letter Queue (DLQ) topic.

Answer: C,D,E

Explanation:

The correct answers are A, C, and E. A: Increasing 'tasks.max' allows the connector to run multiple tasks in parallel, enabling faster processing and improved fault tolerance as the workload is distributed. If one task fails, others continue to operate. C: Kafka Connect relies on internal topics 'offset.storage.topic' and 'config.storage.topic') to store connector configurations and offset information. This ensures that upon a connector restart or worker failure, the connector can resume from where it left off, preventing data loss and duplication. E: Configuring a Dead Letter Queue (DLQ) topic ('errors.deadletterqueue.topic.name') allows the connector to route records that cannot be processed due to errors to a separate topic. This ensures that problematic records do not halt the entire ingestion process and can be analyzed and reprocessed later. B is incorrect since it will only provide details on errors in the log but will not process data and stop the connector. D utilizes Snowflake's auto-ingest, which is independent of the Kafka connector; hence, it will not influence its fault tolerance.

NEW QUESTION # 285

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