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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q196-Q201):

NEW QUESTION # 196

You have a Python UDF in Snowflake designed to enrich customer data by calling an external API to retrieve additional information based on the customer ID. Due to API rate limits, you need to implement a mechanism to cache API responses within the UDF to

avoid exceeding the limits. The UDF is defined as follows:

```
import _snowflake
import requests

def enrich_customer_data(customer_id):
    # Function to call the external API and retrieve customer data
    def get_customer_details(customer_id):
        api_url = f"https://externalapi.com/customers/{customer_id}"
        response = requests.get(api_url)
        if response.status_code == 200:
            return response.json()
        else:
            return None

    # Caching mechanism implementation required here
    customer_details = get_customer_details(customer_id)

    if customer_details:
        return customer_details['name'], customer_details['location']
    else:
        return None, None

_snowflake.create_udf(enrich_customer_data, 'enrich_customer_data', ['string'], ['string', 'string'], replace=True)
```



Which caching mechanism can be implemented MOST effectively WITHIN the Python UDF to minimize API calls while adhering to Snowflake's UDF limitations?

- A. Persist the API responses in a temporary table within Snowflake. The UDF will first query the temporary table for the customer ID; if found, return the cached data. Otherwise, call the API and store the response in the temporary table for future use.
- B. Utilize Snowflake's built-in caching mechanisms (result caching) by ensuring the UDF is deterministic and only depends on its input parameters. Snowflake will automatically cache the results of the UDF for subsequent calls with the same input.
- C. Leverage external caching services like Redis by making API calls to Redis from the UDF to store and retrieve cached API responses. This would require configuring Snowflake to connect with external systems.
- **D. Use the 'functools.lru_cache' decorator to cache the results of the 'get_customer_details' function within the UDF's scope. This will automatically cache the most recently used API responses.**
- E. Create a global dictionary within the UDF to store the API responses, using the customer ID as the key. Before calling the API, check if the customer ID exists in the dictionary; if it does, return the cached response. This approach will keep cached values during the session.

Answer: D

Explanation:

Using 'functools.lru_cache' (Option A) is the most efficient and straightforward solution. It provides a built-in caching mechanism within the Python UDF's scope without requiring external dependencies or complex manual caching logic. Option B is not the best, as it will cause issues in multithreaded environment where this is not thread safe and could cause data inconsistency. Option C is related to Snowflake result cache which is independent of UDF cache needs and concerns. The temp table (option D) adds overhead by querying external tables within the UDF, making API execution slower rather than faster. And Option E needs external connections which increase infrastructure complexity.

NEW QUESTION # 197

A retail company wants to store product data in a Snowflake VARIANT column. The product data is currently in a relational table called 'PRODUCTS' with columns 'PRODUCT ID', 'PRODUCT NAME', 'CATEGORY', 'PRICE', and 'DISCOUNT'. They want to create a JSON structure where each product is represented as a JSON object, and the entire result set is a JSON array. Which of the following SQL statements will achieve this transformation most efficiently?

- ☐ SELECT ARRAY_AGG(OBJECT_CONSTRUCT('PRODUCT_ID', PRODUCT_ID, 'PRODUCT_NAME', PRODUCT_NAME, 'CATEGORY', CATEGORY, 'PRICE', PRICE, 'DISCOUNT', DISCOUNT)) FROM PRODUCTS;
- ☐ SELECT JSON_ARRAYAGG(OBJECT_CONSTRUCT('PRODUCT_ID', PRODUCT_ID, 'PRODUCT_NAME', PRODUCT_NAME, 'CATEGORY', CATEGORY, 'PRICE', PRICE, 'DISCOUNT', DISCOUNT)) FROM PRODUCTS;
- ☐ SELECT TO_JSON(OBJECT_CONSTRUCT('PRODUCT_ID', PRODUCT_ID, 'PRODUCT_NAME', PRODUCT_NAME, 'CATEGORY', CATEGORY, 'PRICE', PRICE, 'DISCOUNT', DISCOUNT)) FROM PRODUCTS;
- ☐ SELECT ARRAY_CONSTRUCT(OBJECT_CONSTRUCT('PRODUCT_ID', PRODUCT_ID, 'PRODUCT_NAME', PRODUCT_NAME, 'CATEGORY', CATEGORY, 'PRICE', PRICE, 'DISCOUNT', DISCOUNT)) FROM PRODUCTS;
- ☐ SELECT JSON_OBJECT('products', ARRAY_AGG(OBJECT_CONSTRUCT('PRODUCT_ID', PRODUCT_ID, 'PRODUCT_NAME', PRODUCT_NAME, 'CATEGORY', CATEGORY, 'PRICE', PRICE, 'DISCOUNT', DISCOUNT))) FROM PRODUCTS;

- A. Option E

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

Answer: D

Explanation:

'JSON_ARRAYAGG' is the most efficient way to construct a JSON array from a result set in Snowflake. returns a Snowflake array, which is different from a JSON array. 'TO_JSON' is used to convert a Snowflake VARIANT to a JSON string, and 'ARRAY_CONSTRUCT' creates a Snowflake array from individual elements. Option E is close but creates an object with single key products and the value being the Array. 'JSON_ARRAYAGG' directly builds a JSON Array.

NEW QUESTION # 198

You are tasked with optimizing the performance of a Snowflake virtual warehouse used for running several types of queries: short-running analytical queries with strict latency requirements, long-running batch data transformations, and ad-hoc queries from data scientists. The workload is unpredictable, and the team wants to minimize queueing and maximize resource utilization. Which warehouse configuration would be MOST appropriate to handle this mixed workload, minimizing cost and maximizing performance?

- **A. A multi-cluster warehouse with a scaling policy of 'Standard' and a minimum of 1 and maximum of 3 clusters with auto-suspend set to 10 minutes.**
- B. A single X-Large warehouse with auto-suspend set to 5 minutes.
- C. Three separate warehouses: a Medium warehouse for analytical queries, a Large warehouse for batch transformations, and an X-Small warehouse for ad-hoc queries.
- D. A single Small warehouse with auto-suspend set to 60 minutes.
- E. A multi-cluster warehouse with a scaling policy of 'Economy' and a minimum of 1 and maximum of 2 clusters with auto-suspend set to 5 minutes.

Answer: A

Explanation:

A multi-cluster warehouse with a 'Standard' scaling policy allows Snowflake to automatically scale up the number of clusters based on workload demands, providing better performance during peak times and reducing queueing. The 'Standard' policy aims to minimize query start times which is essential for the mix of short and long running queries. Option A is less flexible than multi-cluster. Option B is too small for the workload. Option D might be cost-effective but will likely lead to performance issues during peak times. Option E can work, but it increases administrative overhead and might not be as efficient as a multi-cluster warehouse for handling unpredictable workloads.

NEW QUESTION # 199

A data engineer is responsible for a Snowflake data pipeline that ingests data from multiple external sources, transforms it, and loads it into a data warehouse. The engineer needs to implement a notification system to alert them when specific data quality issues occur, such as data duplication exceeding a threshold or a sudden drop in data volume. Which approach offers the MOST flexible and scalable solution for implementing these notifications?

- A. Rely solely on Snowflake's Data Sharing feature to share the data with a data quality team who will manually review the data and report any issues.
- **B. Implement a data quality monitoring tool that integrates with Snowflake via JDBC/ODBC and uses its own rules engine and notification system to detect and alert on data quality issues.**
- **C. Create a series of Snowflake Tasks that execute SQL queries to check for data quality issues. If an issue is detected, the task triggers an external function to send a notification to a messaging service (e.g., AWS SNS, Azure Event Grid).**
- D. Use Snowflake's built-in resource monitors to track data volume and configure alerts based on predefined thresholds. This approach is simple but limited in its ability to detect complex data quality issues.
- E. Develop custom SQL scripts to periodically query the data for quality issues and send email notifications using Snowflake's stored procedures and the 'EMAIL' external function.

Answer: B,C

Explanation:

Options C and D provide the most flexible and scalable solutions. Using a dedicated data quality monitoring tool (C) offers a

comprehensive solution with a rules engine and notification system. Option D allows for a modular and scalable approach where individual tasks check for specific data quality issues and trigger notifications via external functions. Option A is too limited. Option B lacks scalability and maintainability compared to dedicated tools or task-based solutions. Option E is a manual and inefficient approach.

NEW QUESTION # 200

You are tasked with designing a data pipeline to load data from an Azure Blob Storage container into Snowflake using an external stage. The data is in CSV format, compressed using GZIP. The container contains millions of small CSV files. To optimize the data loading process and minimize cost, which of the following strategies would you implement, considering both stage configuration and COPY INTO options? Choose TWO that apply.

- A. Use the 'MATCH BY COLUMN NAME = CASE INSENSITIVE' option with a copy transformation in the 'COPY INTO' statement to ensure that the column order in the CSV files doesn't affect the data load.
- B. Leverage Snowflake's Snowpipe with a REST API endpoint to trigger data loads whenever new files are available in the Azure Blob Storage container.
- C. Consolidate the small CSV files in the Azure Blob Storage container into larger files before loading them into Snowflake. This reduces the overhead of processing numerous small files.
- D. Use the 'VALIDATION MODE = RETURN ERRORS' option in the 'COPY INTO' statement to identify and correct any data quality issues during the load. This ensures that only clean data is loaded into Snowflake.
- E. Create a pipe object with 'AUTO INGEST = TRUE' to automatically ingest new files as they are added to the Azure Blob Storage container. This ensures near real-time data ingestion.

Answer: B,C

Explanation:

Consolidating small files into larger files (option E) significantly improves COPY INTO performance by reducing overhead. Using Snowpipe with a REST API endpoint (option C) allows for efficient, triggered data loading. 'VALIDATION MODE' (option A) is useful for data quality but doesn't directly address optimization for millions of small files. 'AUTO INGEST' (option B) is specific to AWS S3 and Google Cloud Storage, not Azure Blob Storage event notifications. Column matching (option D) addresses schema flexibility, not optimization.

NEW QUESTION # 201

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