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## Snowflake SnowPro Advanced: Data Analyst Certification Exam Sample Questions (Q56-Q61):

### NEW QUESTION # 56

You are tasked with ingesting data from a REST API that provides daily sales reports in JSON format. The API has rate limits (100 requests per minute) and returns a large dataset (approximately 5GB per day). The data needs to be processed within 2 hours of its availability. You want to leverage Snowflake external functions and tasks. Which approach balances efficiency, cost, and adherence to rate limits?

- A. Create a single Snowflake task that calls an external function which iterates through all API pages sequentially in a single execution to retrieve and load all the data. Rely on Snowflake's automatic scaling to handle the load.
- B. Create a Snowflake task that triggers an external function which retrieves only the metadata (e.g., total records, page count) from the API. Then, create a dynamic number of child tasks, each responsible for retrieving a subset of the data, using the metadata to respect the API rate limits.
- C. Create a Snowflake task that calls an external function. This external function calls an intermediate service (e.g., AWS Lambda, Azure Function) which is responsible for fetching the data in batches, respecting the API rate limits, and storing the data in cloud storage. Snowpipe then loads the data from cloud storage into Snowflake.
- D. Create a Snowflake external function that directly connects to the API and loads data into a staging table. Use Snowpipe with auto-ingest to continuously load the data as it arrives. Ignore the API Rate limits; assume they will be handled by API itself.
- E. Call API directly from a scheduled task without considering Rate Limit. Persist the data using COPY INTO command.

**Answer: C**

Explanation:

Option D is the most balanced approach. It leverages an intermediate service to handle the complexities of API interaction (rate limits, pagination), decouples the data retrieval from Snowflake compute, and uses Snowpipe for efficient bulk loading. This approach addresses both the rate limits and processing time requirements effectively.

### NEW QUESTION # 57

When utilizing User-Defined Functions (UDFs) in SQL, which statement accurately describes their usage?

- A. UDFs are solely used for administrative tasks within databases.
- B. UDFs can't be invoked within Stored Procedures.
- C. UDFs are only applicable to numeric data types.
- D. They allow custom-defined operations on data, extending SQL functionalities.

**Answer: D**

Explanation:

UDFs extend SQL functionalities by enabling custom operations on data, going beyond standard SQL capabilities.

### NEW QUESTION # 58

How does leveraging Time Travel feature in Snowflake aid in query optimization and historical data analysis?

- A. Enables querying of historical data versions
- B. Offers options to alter query execution plans
- C. Provides real-time data updates
- D. Limits query execution time

**Answer: A**

Explanation:

Time Travel feature allows querying historical data versions, facilitating historical data analysis and retrospective query optimizations based on past data states.

### NEW QUESTION # 59

A financial institution needs to collect stock ticker data for intraday trading analysis. The data source provides updates every second. They need to maintain a 5-minute rolling average of stock prices for each ticker. The system needs to be highly available and resilient to data source interruptions. Considering the need for near real-time analysis and potential data source instability, which combination of technologies and approaches would be MOST effective?

- A. Employing a stream processing framework (e.g., Apache Kafka) to ingest the data, perform the rolling average calculation using a tumbling window, and load the aggregated results into Snowflake.
- B. Leveraging Snowflake's dynamic data masking and data classification capabilities to maintain data security and compliance while adhering to real-time data ingestion.
- C. Storing the raw data into Snowflake using Snowpipe in micro-batches and creating a VIEW that performs the rolling average calculation on-demand.
- D. Using a scheduled task to query the API every minute and store the data directly into a Snowflake table with a materialized view calculating the rolling average.
- E. Using a traditional ETL tool to extract, transform (calculate rolling average), and load the data into Snowflake in 15-minute intervals.

**Answer: A**

Explanation:

A stream processing framework like Kafka is ideal for handling high-velocity data streams. Kafka provides fault tolerance and the ability to perform real-time aggregations (rolling average with tumbling window). While Snowpipe can ingest the raw data quickly, calculating the rolling average on-demand (using a VIEW) may not meet the near real-time requirement and can be inefficient. A scheduled task might not be able to handle the volume and frequency of data. The key to answering this question is understanding the need for real-time aggregation AND resilience to potential data source outages, both of which Kafka elegantly addresses.

#### NEW QUESTION # 60

You are tasked with creating a data access strategy for a marketing analytics team. They need access to customer purchase data, but only aggregated by region and product category. They should not be able to see individual customer details due to PII compliance. You decide to use a Secure View. Which of the following are the MOST appropriate steps to ensure data security and minimize performance impact?

- A. Create a regular view that aggregates the data and grant SELECT privilege on the view to the marketing analytics role.
- B. Create a Materialized View directly on the base tables with the aggregation logic. Grant SELECT privilege on the Materialized View to the marketing analytics role.
- C. Create a Secure View that aggregates the data and grant SELECT privilege on the view to the marketing analytics role.
- D. Create a Secure View directly on the base tables with the aggregation logic. Grant SELECT privilege on the view to the marketing analytics role.
- E. Create a Materialized View that aggregates the data. Create a Secure View on top of the Materialized View and grant SELECT privilege on the secure view to the marketing analytics role.

**Answer: C**

Explanation:

Secure Views prevent access to the underlying tables and data lineage. Creating the Secure View directly with the aggregation prevents unauthorized access to detailed data and avoids exposing intermediate tables or views. Materialized views while improving performance, when used along with a Secure View adds unnecessary complexity as aggregation should happen in secure view only.

#### NEW QUESTION # 61

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