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Snowflake SnowPro Advanced: Data Analyst Certification Exam Sample Questions (Q145-Q150):

NEW QUESTION # 145
You are responsible for loading data into a Snowflake table named 'CUSTOMER DATA' from a series of compressed JSON files located in a Google Cloud Storage (GCS) bucket. The data volume is significant, and the loading process needs to be as efficient as possible. The JSON files are compressed using GZIP, and they contain a field called 'registration date' that should be loaded as a DATE type in Snowflake. However, some files contain records where the 'registration_date' is missing or has an invalid format. Your goal is to load all valid data while skipping any files that contain invalid dates, and log any files that contain invalid records. You

want to choose the most efficient approach. Which of the following options represents the best strategy to achieve this?

- A. create a file format object specifying 'TYPE = JSON' and 'COMPRESSION = GZIP'. Use a COPY INTO command with a transformation function 'TRY Configure the 'CUSTOMER DATA' table with a default value for 'registration_date' and use 'ON ERROR = CONTINUE'.
- B. Use Snowpipe with a file format object specifying 'TYPE = JSON' and 'COMPRESSION = GZIP'. Configure error notifications for the pipe and handle errors manually.
- C. Create a file format object specifying 'TYPE = JSON' and 'COMPRESSION = GZIP. Use a COPY INTO command with a transformation function 'TRY TO DATE(registration_date)' and 'ON ERROR = SKIP FILE. Implement a separate process to validate the loaded data for NULL 'registration_date' values.
- D. Create a file format object specifying 'TYPE = JSON' and 'COMPRESSION = GZIP. Use a COPY INTO command with a transformation function 'TO DATE(registration_datey and SON ERROR = CONTINUE. Use a validation table to store rejected records.
- E. create a file format object specifying 'TYPE = JSON' and 'COMPRESSION = GZIP. Use a COPY INTO command with 'ON_ERROR = SKIP_FILE. Implement a scheduled task to query the COPY HISTORY view to identify any skipped files and manually investigate the errors.

Answer: A

Explanation:
The correct answer is E. Using gracefully handles invalid dates by returning NULL, which can be managed using a default value on the target table. 'ON ERROR = CONTINUE' ensures the loading process doesn't halt. Combining this with a default value provides for a fast, efficient load. Option A skips the entire file, which is not desired if only some records are invalid. Option B will halt the load process if the target field cannot accept a value. Option C is valid but requires a separate process. Option D makes the manual handling more complex since Snowpipe is designed for near real time instead of batch. E is the best option as all invalid fields will be populated with the default value and load will be unaffected.

NEW QUESTION # 146
Your team is building a data pipeline to ingest data from a REST API that returns JSON payloads. Due to API rate limits, you need to implement a backoff strategy to avoid overwhelming the API. You are using Python and the 'requests' library for data ingestion. Which code snippet BEST demonstrates a robust backoff strategy with exponential backoff and jitter?

```
import requests

def fetch_data(url):
    response = requests.get(url)
    return response.json()
```

- A.

```
import time
import random

def fetch_data(url, max_retries=5):
    retries = 0
    while retries < max_retries:
        try:
            response = requests.get(url)
            response.raise_for_status()
            return response.json()
        except requests.exceptions.RequestException as e:
            retries += 1
            wait_time = (2   retries) + random.uniform(0, 1)
            print(f"Retry {retries} after {wait_time:.2f} seconds
            time.sleep(wait_time)
    print(f"Max retries reached. Failed to fetch data from {url}"
```

- B.

```
import requests
import time


def fetch_data(url):
    try:
        response = requests.get(url)
        response.raise_for_status()
        return response.json()
    except requests.exceptions.RequestException as e
        print(f"Error fetching data: {e}")
```

- C.
```
    return None
import requests
import time

def fetch_data(url):
    while True:
        try:
            response = requests.get(url)
            response.raise_for_status()
            return response.json()
        except requests.exceptions.RequestException:
            time.sleep(5)
```

- D.
```
import requests
import time
import random

def fetch_data(url):
    try:
        response = requests.get(url, timeout=10)
        response.raise_for_status()
        return response.json()
    except requests.exceptions.RequestException as e:
        time.sleep(random.randint(1,5))
        return fetch_data(url)
```

- E.

Answer: B

Explanation:
Option B provides the most robust backoff strategy. It implements exponential backoff (wait time increases exponentially with each retry) and adds jitter (a random amount of time) to the wait time to avoid synchronized retries from multiple clients. also handles error codes correctly. Option A doesn't have a backoff strategy. Option C has a simple retry mechanism but lacks exponential backoff and a limit on retries. Option D lacks error handling and retry logic. Option E uses recursion, which is generally not recommended and does not feature exponential backoff.

NEW QUESTION # 147
You have a Snowflake table named 'sensor_data' with a column 'reading' containing JSON data'. The JSON structure varies, but you want to extract a specific nested value, 'temperature', using a UDE The path to 'temperature' might be different depending on the 'sensor_type'. Some sensors have the temperature at '$.metrics.temperature' , others at '$.reading.temp_c'. The sensor type is stored in the 'sensor_type' column. You want to create a UDF named which takes the JSON 'reading' and the 'sensor_type' as input and extracts the temperature, returning NULL if the path does not exist in the JSON. How can you implement this using a JavaScript UDF and Snowflake's JSON parsing functions for optimal performance?

○ ```sql CREATE OR REPLACE FUNCTION get_temperature(reading VARCHAR, sensor_type VARCHAR) RETURNS FLOAT LANGUAGE JAVASCRIPT AS $$ var reading_json = JSON.parse(reading); if (sensor_type === 'type1') { return reading_json.metrics.temperature; } else if (sensor_type === 'type2') { return reading_json.reading.temp_c; } else { return null; } $$; ```

○ ```sql CREATE OR REPLACE FUNCTION get_temperature(reading VARIANT, sensor_type VARCHAR) RETURNS FLOAT LANGUAGE JAVASCRIPT AS $$ if (sensor_type === 'type1') { return reading.metrics.temperature; } else if (sensor_type === 'type2') { return reading.reading.temp_c; } else { return null; } $$; ```

○ ```sql CREATE OR REPLACE FUNCTION get_temperature(reading VARIANT, sensor_type VARCHAR) RETURNS FLOAT LANGUAGE JAVASCRIPT AS $$ try { if (sensor_type === 'type1') { return reading.metrics.temperature; } else if (sensor_type === 'type2') { return reading.reading.temp_c; } else { return null; } } catch (e) { return null; } $$; ```

○ ```sql CREATE OR REPLACE FUNCTION get_temperature(reading VARCHAR, sensor_type VARCHAR) RETURNS FLOAT LANGUAGE JAVASCRIPT AS $$ var reading_json = JSON.parse(reading); try { if (sensor_type === 'type1') { return reading_json.metrics.temperature; } else if (sensor_type === 'type2') { return reading_json.reading.temp_c; } else { return null; } } catch (e) { return null; } $$; ```

○ ```sql CREATE OR REPLACE FUNCTION get_temperature(reading VARIANT, sensor_type VARCHAR) RETURNS FLOAT LANGUAGE JAVASCRIPT AS $$ if (sensor_type === 'type1') { return reading['metrics']['temperature']; } else if (sensor_type === 'type2') { return reading['reading']['temp_c']; } else { return null; } $$; ```

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

Answer: E

Explanation:
Option C is the MOST optimal. It uses 'VARIANT as the input data type for 'reading' , which avoids the unnecessary parsing of JSON using as Snowflake automatically parses JSON data into a VARIANT type. It also includes a 'try...catch' block to handle cases where the specified path does not exist within the JSON, returning 'NULL' as required. This prevents errors from halting the query. Using 'VARIANT directly and exception handling offers superior performance. Option A and D parse VARIANT as String, leading to parsing overhead. B misses the try catch block and is prone to failure when temp is not available for a given sensor. Option E is less efficient than option C due to using array notation.

NEW QUESTION # 148
You are tasked with building a near real-time data pipeline that ingests streaming data from Kafka into Snowflake. The data is semi-structured JSON. The goal is to transform and load only records with a 'status' field equal to 'active' into a table named 'ACTIVE RECORDS'. Which approach provides the most efficient and scalable solution, minimizing latency and Snowflake resource consumption?

- A. Ingest all data into a raw table using Snowpipe. Create a materialized view on top of the raw table, filtering for 'status' = 'active', and store the results in 'ACTIVE RECORDS'.
- B. Create an external table pointing to the Kafka topic. Use a Snowflake stream on the external table to track changes, and a task to transform and load 'active' records into 'ACTIVE RECORDS'
- C. Use Snowflake's Kafka connector to load all data into a staging table, then create a scheduled task that runs every minute to transform and load the 'active' records into 'ACTIVE RECORDS
- D. Use a third-party ETL tool to consume the Kafka stream, filter for 'status' = 'active', and then load the data directly into 'ACTIVE RECORDS' using the Snowflake JDBC driver.
- E. Implement a Snowpipe with a continuous ingest endpoint. Use a transformation defined within the COPY INTO statement to filter for 'status' = 'active' during the load process.

Answer: E

Explanation:
Snowpipe with a transformation in the COPY INTO statement offers the most efficient and scalable near real-time data ingestion solution. This approach allows filtering during the load process, avoiding the need to load all data and then filter later. Option A involves a scheduled task, which introduces latency. Option C's external table + stream approach is generally slower for continuous ingest. Option D adds the overhead and cost of a 3rd party ETL tool, while Option E's materialized view would work, it isn't the most efficient approach for the initial data filtering.

NEW QUESTION # 149
You are building a data pipeline to ingest customer data into Snowflake. You have identified a need to dynamically determine the data load timestamp during the ingestion process itself, without relying on external systems or pre-defined variables. Which system

function(s) would be the MOST appropriate and efficient choice to accomplish this?

- A. GETDATE()
- B. NOW()
- C. SYSDATE()
- D. SYSTEM$GET_LOAD_TIMESTAMP()
- E. CURRENT _ TIMESTAMP()

Answer: E

Explanation:
The function returns the current timestamp at the start of the statement. 'SYSDATE()' and 'GETDATE()' functions does not exists in Snowflake. is a synonym for CURRENT TIMESTAMP(). However, is not a standard documented function.

NEW QUESTION # 150
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