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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q113-Q118):

NEW QUESTION # 113

You're using Snowpipe Streaming to ingest JSON data into a Snowflake table. The JSON data contains nested objects and arrays. You're encountering errors related to data type mismatches during ingestion. The target table schema is defined with specific data types for each column. Which of the following approaches is MOST effective for handling this data type mismatch issue within the Snowpipe Streaming context, considering minimal transformation?

- A. Adjust the auto_ingest property of the Snowpipe object to force data type conversion.
- B. Create a Stored Procedure in Snowflake to transform the data after it has been ingested using Snowpipe Streaming.
- C. Use a COPY INTO statement with a transformation function to cast the data during ingestion.
- **D. Modify the client-side application to cast the data to the correct data type before sending it to Snowpipe Streaming.**
- E. Use a variant column in the Snowflake table and perform data type casting during querying.

Answer: D

Explanation:

B is the most effective approach. Snowpipe Streaming is designed for low-latency ingestion with minimal transformation at ingestion time. Data type mismatches are best resolved at the source (client-side) before the data is sent to Snowflake. A introduces complexity at query time and isn't ideal for a fixed schema. C adds latency and post-ingestion processing. D is not applicable to Snowpipe Streaming. COPY INTO is for Classic Snowpipe. E, is not related to data type conversion.

NEW QUESTION # 114

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. Use 'CACHE RESULT for all queries in snowpark that use Kafka
- 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. 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.
- D. 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.
- E. Implement a message queuing system (e.g., RabbitMQ, Kafka) between Kafka and your Snowpark application to buffer incoming data during traffic spikes.

Answer: B,E

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 # 115

A data engineer is tasked with optimizing a Snowflake data pipeline that ingests data from multiple external sources, transforms it, and loads it into a reporting table. The pipeline uses a series of Snowflake tasks orchestrated with a root task and child tasks. Performance monitoring shows inconsistent execution times for the transformation tasks. Which of the following strategies would provide the MOST granular insights into the performance bottlenecks within the pipeline and allow for targeted optimization?

- A. Leverage Snowflake's event tables like QUERY HISTORY and TASK HISTORY in the ACCOUNT USAGE schema joined with custom metadata tags to correlate specific transformation steps to execution times and resource usage. Also set up alerting based on defined performance thresholds.
- B. Implement a custom logging mechanism within the transformation tasks to record execution times for each stage of the transformation process, and store these logs in a Snowflake table for analysis.
- C. Use Snowflake's Resource Monitors to track overall warehouse consumption and assume that high consumption during transformation tasks indicates a bottleneck within those tasks.
- D. Rely solely on the Snowflake web UI's Task History view to identify slow-running tasks.
- E. Enable query profiling for all queries executed within the transformation tasks using 'ALTER SESSION SET QUERY PROFILE = 'ON'', then analyze the query profiles for performance bottlenecks after each task run.

Answer: A

Explanation:

Option E is the most effective because it combines the structured data from Snowflake's account usage views (QUERY HISTORY, TASK_HISTORY) with custom metadata tags that provide context about each task's role in the data pipeline. This allows for granular analysis and correlation of transformation steps to performance metrics. Setting up alerts further proactively notifies the data engineer of performance deviations. Option B is good but harder to scale and maintain. Option D is less scalable and can be harder to interpret. The other options lack sufficient detail or provide only a high-level overview.

NEW QUESTION # 116

You have a Snowflake table 'CUSTOMER DATA' with the following schema:

```
CREATE TABLE CUSTOMER_DATA (  
  CUSTOMER_ID INT,  
  NAME VARCHAR(255),  
  EMAIL VARCHAR(255),  
  ADDRESS VARCHAR(255),  
  CREATED_AT TIMESTAMP_NTZ  
);
```

Your downstream application requires a new column 'PHONE NUMBER VARCHAR(20)' in the 'CUSTOMER DATA' table. You need to add this column without causing any downtime or disruption to the application. What is the MOST appropriate approach?

- A. Create a view 'CUSTOMER' on top of 'CUSTOMER DATA' that includes the new 'PHONE NUMBER' column with a default value. Update the application to use the view instead of the table.
- B. Create a temporary table which is a copy of 'CUSTOMER_DATA' but with the additional column. Swap the 'CUSTOMER_DATA' and 'CUSTOMER DATA TEMP' tables.
- C. Create a new table 'CUSTOMER DATA NEW' with the new column, copy data from 'CUSTOMER DATA' to 'CUSTOMER DATA NEW', drop 'CUSTOMER DATA', and rename 'CUSTOMER DATA NEW' to 'CUSTOMER DATA'.
- D. Create a new stream on the table 'CUSTOMER DATA'. Then, create a new table 'CUSTOMER DATA NEW' with the extra 'PHONE NUMBER' column as part of the DDL. Use the stream and table to update data from the old to new table. Then, drop 'CUSTOMER_DATA', and rename to 'CUSTOMER DATA'.
- E. Execute 'ALTER TABLE CUSTOMER DATA ADD COLUMN PHONE NUMBER VARCHAR(20);'. This will add the column with a NULL value for existing rows.

Answer: E

Explanation:

Adding a column using 'ALTER TABLE ADD COLUMN' (Option A) is the simplest and most efficient way to modify the table schema without causing downtime. The new column will be added with a NULL value for existing rows, and the application can continue to access the table without interruption. Options B and D involve creating new tables and copying data, which can be time-consuming and cause downtime during the switchover. Option C using a view is a viable option, but it introduces an extra layer of abstraction and might impact performance slightly. Option E does not exist as a valid command in Snowflake.

NEW QUESTION # 117

You are tasked with building a data pipeline that incrementally loads data from an external cloud storage location (AWS S3) into a Snowflake table named 'SALES DATA'. You want to optimize the pipeline for cost and performance. Which combination of Snowflake features and configurations would be MOST efficient and cost-effective for this scenario, assuming the data volume is substantial and constantly growing?

- A. Create an external stage pointing to the S3 bucket. Create a Snowpipe with auto-ingest enabled, using an AWS SNS topic and SQS queue for event notifications. Configure the pipe with an error notification integration to monitor ingestion failures.
- B. Develop a custom Python script that uses the Snowflake Connector for Python to connect to Snowflake and execute a COPY INTO command. Schedule the script to run on an EC2 instance using cron.
- C. Use a Snowflake Task scheduled every 5 minutes to execute a COPY INTO command from S3, with no file format specified, assuming the data is CSV and auto-detection will work.
- D. Use a Snowflake Task to regularly truncate and reload 'SALES DATA' from S3 using COPY INTO. This ensures data consistency.
- E. Employ a third-party ETL tool to extract data from S3, transform it, and load it into Snowflake using JDBC. Schedule the ETL process using the tool's built-in scheduler.

Answer: A

Explanation:

Snowpipe with auto-ingest is the most efficient and cost-effective solution for continuously loading data into Snowflake from cloud storage. It leverages event notifications to trigger data loading as soon as new files are available, minimizing latency and compute costs. Option A lacks error handling and proper file format specification. Option C involves custom coding and infrastructure management. Option D introduces overhead and costs associated with a third-party ETL tool. Option E is inefficient as it truncates and reloads the entire table, losing any incremental loading benefits.

NEW QUESTION # 118

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