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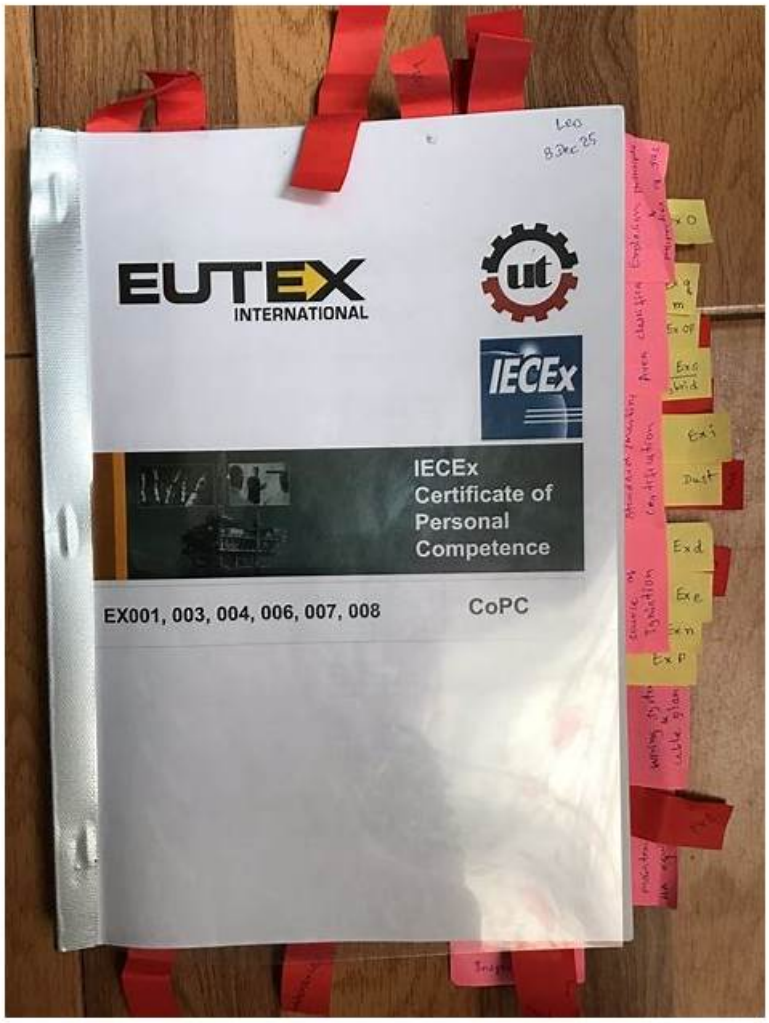

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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q79-Q84):

NEW QUESTION # 79
A Snowflake data pipeline ingests data from multiple external sources into a RAW DATA table. A transformation process then moves the data to a ANALYTICS DATA table, applying several complex UDFs written in Java and Python for data cleansing and enrichment. Performance is significantly slower than expected. Which combination of techniques would BEST improve the performance of this transformation pipeline?

- A. Use external functions instead of UDFs to offload the processing to an external compute environment and configure auto-scaling for the virtual warehouse.
- B. Implement data partitioning in the RAW DATA table based on ingestion time and switch to using stored procedures instead of transformation pipelines.
- C. Increase the virtual warehouse size and re-cluster the ANALYTICS DATA table based on the most frequently filtered columns.
- D. Rewrite the UDFs in SQL or Snowpark Python/Java for better integration with the Snowflake engine and leverage vectorization where possible; cache intermediate results using temporary tables.
- E. Reduce the number of UDF calls by consolidating them into a single, more complex UDF. Replace the transformation pipeline with a series of COPY INTO statements.

Answer: D

Explanation:
Rewriting UDFs in SQL or Snowpark allows the Snowflake engine to optimize them more effectively. Using temporary tables to cache intermediate results prevents redundant computation. Option A helps, but addressing UDF performance is more crucial. Option C might add complexity. Option D is irrelevant to UDF performance. Option E is counterproductive; consolidating UDFs can reduce parallelism and COPY INTO is for initial data loading, not transformation.

NEW QUESTION # 80
You are tasked with building a data pipeline using Snowpark to process sensor data from IoT devices. The data arrives in near real-time as JSON payloads, and you need to transform and load it into a Snowflake table named 'SENSOR DATA'. The transformation logic involves extracting specific fields, converting data types, and filtering out records based on a timestamp. Consider performance optimization for large data volumes. Which of the following approaches, in combination, would be MOST efficient for this scenario?

- A. Employing Snowpipe to ingest the raw JSON data into a VARIANT column in a staging table, followed by a Snowpark DataFrame operation using 'functions.get' to extract and transform the data, and finally loading into 'SENSOR DATA'
- B. Creating an external table pointing to the JSON data in cloud storage and using Snowpark DataFrames to read the external table, apply transformations, and load the result into 'SENSOR DATA'.
- C. Leveraging Snowflake's native JSON parsing functions within a SQL transformation step implemented as a Snowpark DataFrame operation, combined with a Snowpipe for initial data ingestion into a staging table.
- D. Using a Snowpark Python UDF to parse JSON and perform transformations, loading the result into a temporary table, and then merging into 'SENSOR DATA'.
- E. Using a stored procedure written in Java to parse the JSON data and insert directly into the "SENSOR DATA' table.

Answer: A,C

Explanation:
Options B and E, used in combination, offer the best performance. Snowpipe provides efficient near real-time ingestion into a VARIANT column. Then, using Snowpark DataFrames with Snowflake's native JSON parsing functions like 'functions.get' and 'functions.to_timestamp' allows for vectorized operations within Snowflake's engine, minimizing data movement and maximizing processing speed. This combination avoids the overhead of UDFs (Option A) or external tables (Option C), and leverages the strengths of both Snowpipe and Snowpark. A Java stored procedure (Option D) would likely be less performant than leveraging Snowpark's DataFrame API.

NEW QUESTION # 81
You're loading data into a Snowflake table using 'COPY INTO'. You notice that some rows are being rejected due to data validation errors (e.g., data type mismatch, uniqueness constraint violations). You want to implement a strategy to capture these rejected rows for further analysis and correction. Which of the following approaches offers the MOST efficient and reliable method for capturing and storing the rejected rows, minimizing performance impact during the data loading process? Assume no staging table exists before loading data to production table.

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

Answer: B

Explanation:
Option E, utilizing 'ERROR INTEGRATION', is the most efficient and reliable. It automatically captures rejected rows during the 'COPY INTO' process and stores them in a designated error table or stage, minimizing performance impact and providing a structured way to analyze and correct errors. Options A, B, C, and D have drawbacks. A requires pre-validation, adding overhead. B uses sampling, which might not identify all errors. C only provides a record count, not the actual rejected rows. D aborts the entire statement, impacting availability.

NEW QUESTION # 82
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. Create a materialized view that pre-joins 'WEB_EVENTS' and 'USER_DEVICES' tables without filtering
- 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. Convert the 'WEB EVENTS' table to use a VARIANT data type and query with JSON path expressions.
- E. Use a standard 'JOIN' operation between 'WEB_EVENTS' and USER_DEVICES' without any modifications.

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 improves performance, here Broadcasting is the most cost effective. Using VARIANT data type and JSON path expression slows down the query.

NEW QUESTION # 83
You are designing a continuous data pipeline to load data from AWS S3 into Snowflake. The data arrives in near real-time, and you need to ensure low latency and minimal impact on your Snowflake warehouse. You plan to use Snowflake Tasks and Streams. Which of the following approaches would provide the most efficient and cost-effective solution for this scenario, considering data freshness and resource utilization?

- A. Create a single, root Snowflake Task that triggers every 5 minutes, executing a COPY INTO command to load all new data from the S3 bucket into a staging table, followed by a MERGE statement to update the target table. Use 'VALIDATE (STAGE NAME '0'.////' before COPY INTO.
- B. Create a Stream on the target table and a Snowflake Task. The task executes a COPY INTO command into a staging table when the Stream has data and then a MERGE statement. Schedule the task to run continuously with 'WHEN SYSTEM$STREAM HAS but limit the 'WAREHOUSE SIZE' to
- C. Configure an AWS SQS queue to receive S3 event notifications whenever a new file is uploaded. Use a Lambda function

triggered by the SQS queue to invoke a Snowflake stored procedure. This stored procedure executes a COPY INTO command to load the specific file into Snowflake. Use 'ON ERROR = CONTINUE' during COPY INTO.

- D. Create a Pipe object in Snowflake using Snowpipe and configure the S3 bucket for event notifications to the Snowflake-provided SQS queue. Monitor the Snowpipe status using 'SYSTEM$PIPE STATUS and address any errors by manually retrying failed loads with 'ALTER PIPE REFRESH;'
- E. Create a Stream on the target table and a Snowflake Task that runs every minute. The task executes a MERGE statement to apply changes from the Stream to the target table, filtering the Stream data using the 'SYSTEM$STREAM GET TABLE TIMESTAMP function to process only newly arrived data since the last task execution. Use 'WHEN SYSTEM$STREAM HAS to run the Task.

Answer: D

Explanation:
Snowpipe is specifically designed for continuous data ingestion with minimal latency. It leverages event notifications and serverless compute resources, making it more efficient than polling-based approaches (Task + Stream) or Lambda function invocations. The use of 'SYSTEM$PIPE STATUS' for monitoring and 'ALTER PIPE ... REFRESH' for manual retries provides better control and error handling compared to manual COPY INTO commands and MERGE statements. Option A is inefficient, B is complex, C might have performance issues due to high concurrency and E requires more coding and Stream-related management.

NEW QUESTION # 84
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