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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q31-Q36):

NEW QUESTION # 31

A data engineering team has implemented a continuous data pipeline that loads data into a Snowflake table named 'SALES DATA'. They notice that the pipeline intermittently experiences performance degradation, particularly during peak business hours. The team wants to implement alerts to proactively identify and address these performance issues. Which of the following approaches would be MOST effective for monitoring the pipeline and triggering alerts based on specific performance metrics related to data loading?

- A. Implement a data streaming service that monitors the 'SALES_DATX' table in real-time. The streaming service should track the number of rows inserted per minute and trigger an alert if the insertion rate drops below a predefined threshold. No Snowflake object or Alert required.
- B. Enable Snowflake's query acceleration service. This service automatically analyzes query performance and identifies opportunities for optimization, removing the need for manual monitoring and alerting. Use Snowflake's resource monitors to track credit usage.
- C. Create a custom Snowflake Alert that triggers when the function for the 'SALES_DATA' table indicates significant delay in data loading. Use a Snowflake Notification Integration to send alerts via email or Slack.
- D. Create a Snowflake Alert based on a metric in the Account Usage views (e.g., that identifies when load durations for the data warehouse associated with the data pipeline exceed a specified threshold. Configure a Notification Integration to route alerts to a designated channel.
- E. Create a Snowflake Task that periodically queries the 'QUERY_HISTORY' view, calculates the average load duration for 'SALES_DATX', and triggers an alert if the duration exceeds a predefined threshold. Use a Stored Procedure to handle the alert logic and send notifications.

Answer: D,E

Explanation:

Options A and E offer the most effective approaches. Option A leverages Snowflake's Task and Stored Procedure capabilities to monitor query history and trigger alerts based on load duration. Option E utilizes Snowflake Alerts based on Account Usage views to monitor warehouse load history. Option B is not Snowflake native, and doesn't directly leverage snowflake alerting capabilities. Option C, while helpful for overall performance, doesn't directly address the specific alerting requirements of the scenario. Option D's 'SYSTEM\$LAST CHANGE COMMIT TIME' function may not provide granular enough information for performance monitoring.

NEW QUESTION # 32

You are implementing a data pipeline to load data from AWS S3 into Snowflake. The source data consists of CSV files with a header row. Some of the CSV files have inconsistent data types in a specific column (e.g., sometimes an integer, sometimes a string). You want to use the 'COPY' command to load the data and handle these data type inconsistencies gracefully. Which of the following 'COPY' command options, used in conjunction, would BEST address this issue and avoid load failures? Assume the file format is already defined to specify CSV type, header skip, and field delimiter.

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

Answer: D

Explanation:

Option C using "ON ERROR = 'CONTINUE'" allows the copy operation to proceed even if some rows have data type conversion errors. Rows with errors will be skipped, but the load will not fail entirely. 'SKIP FILE' (Options A, D, and E) would skip the entire file if any error is encountered, which is too aggressive. 'VALIDATION MODE = RETURN ALL ERRORS' (Option B and D) is useful for identifying errors, but doesn't change the behavior of the 'COPY' command itself regarding how to handle errors. We want to ingest the data gracefully, not just identify the issues.

NEW QUESTION # 33

You are loading data from an S3 bucket into a Snowflake table using the COPY INTO command. The source data contains dates in various formats (e.g., 'YYYY-MM-DD', 'MM/DD/YYYY', 'DD-Mon-YYYY'). You want to ensure that all dates are loaded correctly and consistently into a DATE column in Snowflake. Which of the following COPY INTO options and commands is the MOST appropriate to handle this?

- A. Utilize the 'DATE' function with explicit format strings inside a Snowpipe transformation pipeline. This involves pattern matching using 'CASE WHEN' statements to identify date formats before converting to the DATE data type.
- B. Use the 'STRTOK TO DATE function within a SELECT statement in a Snowpipe transformation to dynamically parse the dates based on different patterns.
- C. Use the 'ON_ERROR = 'SKIP FILE" option to skip files with invalid date formats.
- D. Use the 'VALIDATE(O)' command before the COPY INTO command to identify files with invalid date formats and then process them separately.
- E. Use the 'DATE FORMAT option in the COPY INTO command with a single format string that covers all possible date formats.

Answer: A

Explanation:

Option E is the most robust. It uses regular expressions for pattern matching to accurately determine the format of each date and then uses TO DATE with the correct format string. This ensures consistent conversion to Snowflake's DATE data type. While Option D aims to use STRTOK TO DATE, Snowflake doesn't offer dynamic date parsing during data loading, so each date pattern will be handled manually using CASE statement approach mentioned in the option E, making it more suitable for a varied array of patterns. Options A, B, and C are inadequate. A single 'DATE FORMAT' won't handle multiple formats. B skips files, leading to data loss. C requires manual intervention and doesn't automate the loading process.

NEW QUESTION # 34

You have a Snowflake table 'orders_raw' with a VARIANT column named 'order_details' that contains an array of order items represented as JSON objects. Each object has 'item_id', 'quantity', and 'price'. You need to calculate the total revenue for each order. Which SQL statement efficiently flattens the array and calculates the total revenue using LATERAL FLATTEN and appropriate casting?

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

Answer: D

Explanation:

Option E is the most efficient and correct. It uses 'LATERAL FLATTEN' to unnest the 'order_details' array. It then casts both the 'quantity' and 'price' fields to FLOAT, ensuring accurate calculations for total revenue. A, B and D are incorrect due to incorrect join syntax or function usage with lateral flatten, or improper datatypes. C doesn't properly flatten the array so it only accesses the first element.

NEW QUESTION # 35

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. 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.
- B. 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.
- 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. 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.

Answer: E

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 # 36

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