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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q38-Q43):

NEW QUESTION # 38

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. 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.
- B. 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.
- C. 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.
- D. Use a Snowflake Task to regularly truncate and reload 'SALES DATA' from S3 using COPY INTO. This ensures data consistency.
- E. 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.

Answer: C

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 # 39

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 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.
- B. 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.
- C. 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;'
- D. 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.
- E. 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

Answer: C

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 # 40

You are tasked with ingesting a large volume of CSV files from an external stage into a Snowflake table. Some of these CSV files contain corrupted records with inconsistent delimiters or missing values. You need to ensure that only valid records are loaded into the table, and the corrupted records are captured for further analysis. Which of the following COPY INTO options would BEST address this requirement?

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

Answer: A

Explanation:

Option E is the most comprehensive solution. ERROR = CONTINUE allows the COPY INTO statement to proceed despite errors. 'SKIP HEADER = 1' handles potential header issues in corrupted files. MISMATCH = FALSE allows for varying column counts. 'VALIDATION _ MODE' and 'RESULT' provide a mechanism to capture and analyze the rejected records, satisfying the requirement to analyze corrupted records. Options A, B, C, and D are insufficient for capturing corrupted records for analysis or may lead to data loss.

NEW QUESTION # 41

A data engineer accidentally truncated a critical table 'ORDERS' in the 'SALES DB' database. The table contained important historical order data, and the data retention period is set to the default. Which of the following options represents the MOST efficient and reliable way to recover the truncated table and its data, minimizing downtime and potential data loss?

- A. Restore the entire Snowflake account to a previous point in time before the table was truncated.
- B. Contact Snowflake support and request them to restore the table from a system-level backup.
- C. Use the UNDROP TABLE command to restore the table. If UNDROP fails, clone the entire SALES_DB database to a point in time before the truncation using Time Travel.
- D. Create a new table 'ORDERS' and manually re-insert the data from the application's logs and backups.
- **E. Use Time Travel to create a clone of the truncated table from a point in time before the truncation. Then, swap the original table with the cloned table.**

Answer: E

Explanation:

Option D is the most efficient and reliable. Cloning the table using Time Travel to a point before the truncation allows quick recovery with minimal data loss. The clone can then replace the truncated table. Option A relies on Snowflake support, which can be slow. Option B, UNDROP TABLE command, if the data retention period has passed or data has been purged then we cannot use it. Option C is manual and error-prone. Option E is an extreme measure and impacts the entire account.

NEW QUESTION # 42

You are managing a Snowflake environment where data retention is set to the default 1 day for all databases and tables. You need to clone a production table, 'CUSTOMER DATA', to a development environment to test some complex transformations. However, after cloning, you realize that the original 'CUSTOMER DATA' table in production was accidentally dropped 2 days ago. Which of the following statements accurately describe the situation and what can be done, if anything?

- A. The cloned 'CUSTOMER DATA' table in the development environment will no longer be accessible because the source

table has been dropped and the data retention period has expired. The clone is effectively useless.

- B. The cloned 'CUSTOMER DATA' table in the development environment will remain accessible because the clone operation created a point-in-time snapshot.
- C. The cloned 'CUSTOMER DATA' table will only remain accessible if the source database was also cloned at the same time. If only the table was cloned, the cloned table is unusable after 1 day.
- D. While the source 'CUSTOMER DATA' is dropped and outside the retention period, the clone created will remain available and fully functional for querying. It is an independent copy. The clone is usable indefinitely, within the limits of your Snowflake account storage.
- E. The cloned 'CUSTOMER DATA' table in the development environment will inherit the data retention period from the original 'CUSTOMER DATA' table, so it will also be inaccessible after 1 day if dropped in development.

Answer: D

Explanation:

Cloning creates a separate, independent copy of the table's metadata and data at the time of the clone operation. Even if the original table is dropped and the data retention period has passed for the original table, the cloned table remains accessible and fully functional, as it has its own independent copy of the data. Option B is incorrect as future changes to DEV will be recoverable based on DEV retention settings which can be independent from PROD.

NEW QUESTION # 43

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