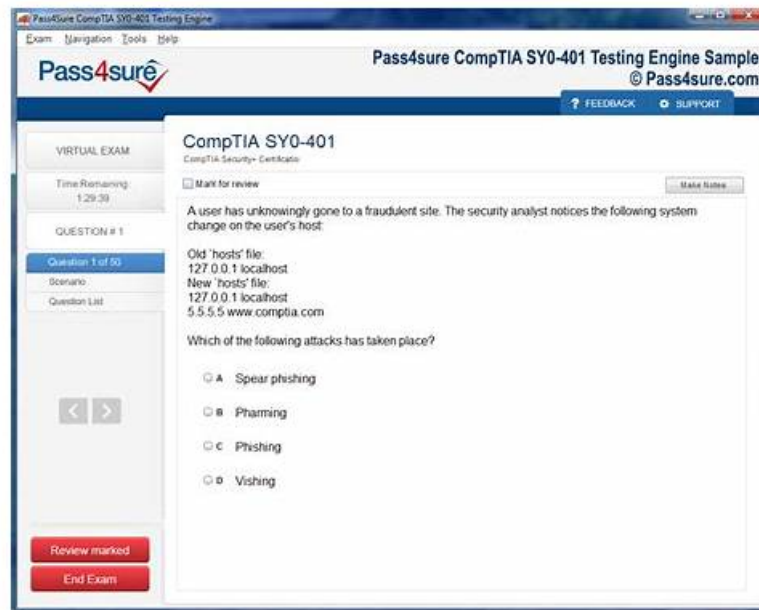


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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q203-Q208):

NEW QUESTION # 203

You are designing a data sharing solution in Snowflake where a provider account shares a view with a consumer account. The view is based on a table that undergoes frequent DML operations (inserts, updates, deletes). The consumer account needs to see a consistent snapshot of the data, even during these DML operations. Which of the following strategies, or combination of strategies, would be MOST effective in ensuring data consistency from the consumer's perspective, and what considerations should be made?

- A. A and B

- B. Using Snowflake's Time Travel feature by querying the view with a specific 'AT' or 'BEFORE' clause in the consumer account. The provider account needs to inform the consumer account of a specific timestamp that guarantees consistency, adding administrative overhead.
- C. Creating a standard view in the provider account and relying on Snowflake's inherent transactional consistency. The consumer account will always see a consistent snapshot of the data as it existed at the beginning of their query execution. No additional configurations are necessary.
- D. Creating a materialized view in the provider account and sharing that materialized view. This adds compute costs to the provider but ensures a consistent snapshot for the consumer account. The materialized view needs to be refreshed periodically, based on the rate of DML changes.
- E. Creating a stream on the base table in the provider account and building a view on top of the stream. This way, changes are only reflected when the stream is consumed, allowing for batch processing and controlled updates in the consumer account.

Answer: C

Explanation:

Snowflake's architecture inherently provides transactional consistency. When the consumer account queries the shared view, they will see a consistent snapshot of the data as it existed at the beginning of their query execution. No additional mechanisms like Time Travel (A) or materialized views (B) are strictly necessary to ensure consistency. While streams (D) can be useful for change data capture, they don't directly guarantee consistency for a standard view shared with a consumer. Time travel in this case would also require significant coordination overhead.

NEW QUESTION # 204

You are using Snowpark to perform a complex join operation between two large tables: 'ORDERS (1 OGB)' and 'CUSTOMER (50GB)'. The join is performed on 'ORDERS.CUSTOMER ID = CUSTOMER.ID'. The query is running slower than expected. You have already confirmed that the warehouse size is adequate. Which of the following strategies, applied in combination, would most likely improve the join performance within a Snowpark context?

- A. Use Snowpark's 'hint function to force a broadcast join, assuming the 'CUSTOMER table can fit into memory on the worker nodes.
- B. Increase the 'AUTO RESIZE' setting on the warehouse to automatically scale up the warehouse size when the load increases.
- C. Ensure both tables are clustered on the join keys 'ORDERS.CUSTOMER_ID' and 'CUSTOMER.ID'.
- D. Analyze the query profile in Snowflake's web UI to identify the specific bottleneck (e.g., excessive data spilling, high CPU utilization) and address it directly.
- E. Use 'session.add_import' to add external JAR dependencies. This would enable use of external libraries and improve performance.

Answer: C,D

Explanation:

Options A and D are the most effective in combination. Clustering both tables on the join keys allows Snowflake to efficiently locate and join related rows, drastically reducing the amount of data that needs to be scanned. Analyzing the query profile (D) allows you to pinpoint the exact bottleneck. Broadcasting the customer table might help if it's small enough (B), but it's risky without proper analysis. Auto-resizing (C) might help but is not a targeted solution and can lead to higher costs. Importing JARs (E) is unrelated to core join performance optimization unless custom join logic is needed which it isn't in this case.

NEW QUESTION # 205

You have a table named 'EMPLOYEES with a retention period of 1 day. You accidentally deleted several important rows from this table, but you need to recover the data'. You know the deletion occurred 25 hours ago. What actions should be taken to attempt to recover the deleted data, and what outcome can you expect? Assume you are working in an Enterprise edition of Snowflake account.

- A. Attempt to clone the table using Time Travel to a point in time before the deletion, then extract the deleted rows. Expect the recovery to be successful as long as the deletion occurred within the data retention period.
- B. Attempt to use Time Travel or cloning to recover the data. Expect the recovery to fail because the deletion occurred outside the 1-day data retention period.
- C. Attempt to use Time Travel to query the table before the deletion and re-insert the deleted rows. Expect the recovery to be successful as long as the deletion occurred within the data retention period.

- D. Since its Enterprise edition of Snowflake account, the Time travel and cloning will work with 7 days retention period, hence attempt clone table using Time Travel and recover data successfully
- E. Attempt to use UNDROP TABLE command if the table was dropped. Expect the recovery to be successful as long as the deletion occurred within the data retention period.

Answer: B

Explanation:

Option D is the correct answer. Snowflake's Time Travel feature allows data recovery within the defined data retention period. Since the deletion occurred 25 hours ago and the retention period is only 1 day (24 hours), the data is no longer recoverable using Time Travel or cloning. It's important to note that even if the deletion was only 25 hours ago, it's still outside of the 1-day data retention period.

NEW QUESTION # 206

You are tasked with building a Snowpipe to ingest JSON data from an AWS S3 bucket into a Snowflake table named 'SALES DATA'. The data is landing in the bucket frequently, and you want to use Snowpipe's auto-ingest feature. However, you are observing significant latency in data appearing in your Snowflake table after it lands in S3, despite verifying that S3 event notifications are correctly configured and the Snowflake event queue is receiving them. You've already checked that the pipe is enabled and has the necessary permissions. The Snowflake Pipe definition is as follows:

```
CREATE OR REPLACE PIPE SALES_PIPE
  AUTO_INGEST = TRUE
AS
  COPY INTO SALES_DATA
  FROM @SALES_STAGE
  FILE_FORMAT = (TYPE = JSON);
```

What is the MOST LIKELY reason for this delay, and what steps can you take to further troubleshoot?

- A. Snowflake's internal metadata cache is out of sync. Run 'ALTER PIPE SALES PIPE' to refresh the cache.
- B. The Snowflake virtual warehouse associated with the pipe is undersized. Increase the warehouse size to improve ingestion performance.
- C. The S3 bucket is not in the same region as the Snowflake account. Ensure the S3 bucket and Snowflake account are in the same region to reduce network latency.
- **D. There is a backlog of files in the internal Snowflake queue waiting to be processed. Monitor the 'SYSTEM\$PIPE STATUS' function and consider increasing the 'MAX CONCURRENCY' parameter (if applicable, based on underlying infrastructure considerations) on the pipe definition.**
- E. Snowpipe auto-ingest only supports CSV files. Convert your JSON data to CSV format before loading.

Answer: D

Explanation:

While warehouse size (A) can impact performance, latency in auto-ingest scenarios is more frequently tied to the processing of files within Snowflake's internal queue. The 'SYSTEM\$PIPE STATUS' function provides insights into the queue's state. Increasing 'MAX CONCURRENCY' (if supported and resource constraints allow) can help process more files concurrently. Option C is incorrect as Snowpipe supports JSON. Option D, regional disparity would impact performance but is less likely to cause significant delays if the configuration is correct. Option E is incorrect; 'ALTER PIPE ... REFRESH' primarily applies to schema evolution or changes in the underlying data structure, not queue processing issues.

NEW QUESTION # 207

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 to regularly truncate and reload 'SALES DATA' from S3 using COPY INTO. This ensures data consistency.
- 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. 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. 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.
- E. 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.

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 # 208

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