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Snowflake SOL-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• Identity and Data Access Management: This domain focuses on Role-Based Access Control (RBAC) including role hierarchies and privileges, along with basic database administration tasks like creating objects, transferring ownership, and executing fundamental SQL commands.
Topic 2	• Data Loading and Virtual Warehouses: This domain covers loading structured, semi-structured, and unstructured data using stages and various methods, virtual warehouse configurations and scaling strategies, and Snowflake Cortex LLM functions for AI-powered operations.
Topic 3	• Data Protection and Data Sharing: This domain addresses continuous data protection through Time Travel and cloning, plus data collaboration capabilities via Snowflake Marketplace and private Data Exchange sharing.

Topic 4	• Interacting with Snowflake and the Architecture: This domain covers Snowflake's elastic architecture, key user interfaces like Snowsight and Notebooks, and the object hierarchy including databases, schemas, tables, and views with practical navigation and code execution skills.

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Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q21-Q26):

NEW QUESTION # 21
A company stores unstructured text data (PDFs, DOCX) in an external stage (AWS S3). They want to use Snowflake Cortex's PARSE DOCUMENT function to extract specific information, but are encountering performance issues and high costs. Which of the following strategies could optimize performance and reduce costs when using PARSE DOCUMENT in this scenario?

- A. Utilize Snowflake's caching mechanism by storing parsed results in a separate table and refreshing it periodically, avoiding redundant parsing of the same documents and reduce MAX FILE SIZE to lower value like 'MAX FILE SIZE-8388608'.
- B. Pre-process the documents to remove irrelevant sections (e.g., boilerplate text, headers, footers) before loading them into Snowflake for parsing. Also, ensure appropriate partitioning of data in the external stage.
- C. Implement a robust error handling mechanism to prevent processing from halting due to malformed or corrupted documents and monitor the Snowflake resource consumption using Snowflake's monitoring tools.
- D. Increase the size of the virtual warehouse used for processing, even if it means paying for larger compute resources, and use 'MAX in the file format configuration.
- E. Reduce the number of documents being processed in a single batch to minimize memory consumption.

Answer: A,B,C

Explanation:
Option B is correct because pre-processing reduces the amount of data that PARSE_DOCUMENT needs to process. Partitioning in the external stage enables Snowflake to more efficiently retrieve the relevant data. Option C is correct because caching prevents redundant processing and reduce MAX FILE_SIZE to lower value. Option E is correct because error handling ensures processing continues and monitoring provides insights into resource usage. Option A increasing warehouse size and MAX FILE SIZE without other optimizations is often a brute-force approach that doesn't address the root cause of performance problems and leads to unnecessary costs. Option D, limiting batch size, can help with memory issues but doesn't fundamentally improve the efficiency of document parsing.

NEW QUESTION # 22
You need to load a large CSV file (1 TB) into a Snowflake table. Which of the following methods would generally provide the fastest loading performance?

- A. Using the 'COPY INTO' command with multiple parallel streams and a properly sized warehouse and a file format object optimized for CSV files.
- B. Using the Snowflake web interface to upload the file.
- C. Using the 'INSERT INTO statement directly within a Snowflake worksheet.
- D. Using Snowpipe with a properly sized warehouse and a file format object optimized for CSV files.
- E. Using a Python script with the Snowflake Connector to insert rows individually.

Answer: A

Explanation:
The 'COPY INTO' command with a properly sized warehouse and parallel streams provides the fastest loading performance for large files. Snowpipe (option C) is also efficient, but 'COPY INTO' offers more control over the loading process. The web interface (option A) is unsuitable for large files. Python scripts with individual inserts (option B) and direct 'INSERT INTO' statements (option E) are significantly slower due to network overhead and lack of parallelism.

NEW QUESTION # 23
A Snowflake administrator needs to implement RBAC for accessing a highly sensitive dataset.
They decide to create several custom roles: 'DATA OWNER, `DATA CURATOR, 'DATA ANALYST, and `DATA READER.
The requirement is that 'DATA OWNER should be able to grant privileges to other roles, but the 'DATA CURATOR should only be able to modify the data but not grant any permissions. 'DATA ANALYST' should have the ability to create temporary tables to assist with analysis, and the 'DATA READER should only have SELECT privileges on the data.
Which of the following SQL commands would correctly fulfill these requirements?

- GRANT OWNERSHIP ON TABLE TO ROLE DATA_OWNER; GRANT INSERT, UPDATE, DELETE ON TABLE TO ROLE DATA_CURATOR; GRANT CREATE TEMPORARY TABLE ON DATABASE TO ROLE DATA_ANALYST; GRANT SELECT ON TABLE TO ROLE DATA_READER;
- GRANT ALL PRIVILEGES ON TABLE TO ROLE DATA_OWNER; GRANT INSERT, UPDATE, DELETE ON TABLE TO ROLE DATA_CURATOR; GRANT CREATE TEMPORARY TABLE ON DATABASE TO ROLE DATA_ANALYST; GRANT SELECT ON TABLE TO ROLE DATA_READER;
- GRANT OWNERSHIP ON TABLE TO ROLE DATA_OWNER; GRANT INSERT, UPDATE, DELETE ON TABLE TO ROLE DATA_CURATOR; GRANT CREATE TABLE ON DATABASE TO ROLE DATA_ANALYST; GRANT SELECT ON TABLE TO ROLE DATA_READER;
- GRANT OWNERSHIP ON TABLE TO ROLE DATA_OWNER; GRANT INSERT, UPDATE ON TABLE TO ROLE DATA_CURATOR; GRANT CREATE TEMPORARY TABLE ON DATABASE TO ROLE DATA_ANALYST; GRANT SELECT ON TABLE TO ROLE DATA_READER;
- GRANT OWNERSHIP ON TABLE TO ROLE DATA_OWNER; GRANT INSERT, UPDATE, DELETE ON TABLE TO ROLE DATA_CURATOR; GRANT CREATE TEMPORARY TABLE ON DATABASE TO ROLE DATA_ANALYST; GRANT SELECT ON TABLE TO ROLE DATA_READER; GRANT ROLE DATA_CURATOR TO ROLE DATA_OWNER;

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

Answer: D

Explanation:
Option A correctly grants ownership to DATA OWNER, allowing them to grant privileges, provides modification access to DATA_CURATOR, permits DATA_ANALYST to create temporary tables, and gives DATA_READER select privileges. Ownership is necessary for the OWNER to grant access to others. The CREATE TEMPORARY TABLE privilege is the correct privilege to allow creation of temp tables, and the SELECT privilege gives the read-only access needed. Option B will give ability to data_owner to change the security permissions. So it voilates the principle of Least Privilege. Option C gives CREATE TABLE which is not temporary table, and it voilates the Least Privilege principle. Option D does not grant the data_curator the delete permission, so violates the access requirements defined in the problem statement.

NEW QUESTION # 24
You are responsible for managing a Snowflake environment where data is loaded from various external sources. You want to use Snowsight to quickly identify all tables within a specific database and schema that have not been loaded in the last 7 days. Which of the following methods, or combination of methods, provides the most efficient and accurate way to achieve this using Snowsight features?

- A. Use the Snowsight Data > Databases navigation to select the database and schema. Filter the table list by 'Last Modified' date using the built-in filter options. If filter is not avaialbe manually inspect each table by scrolling table by table.
- B. Use the Snowsight Search functionality to search for tables within the database and schema. Then, manually inspect each table's 'Last Modified' timestamp in the table details panel.
- C. Execute a 'SHOW TABLES' command in the Snowsight SQL Worksheet and manually inspect the 'last_altered' column in the results.
- D. Use the Snowsight Data > Databases navigation to select the database and schema. Then, use the Snowsight SQL Worksheet to create a custom dashboard displaying a table with columns for 'table_name' and 'last_altered' by querying the Information Schema 'TABLES' view and filter by the last_altered within the last

7 days.
- E. Query the Snowflake Information Schema using the Snowsight SQL Worksheet to retrieve the 'TABLES' view and filter by 'last_altered' column. Then navigate to the table in Snowsight to verify.

Answer: D,E

Explanation:
Options B and E offer the most efficient and accurate solutions. Option B utilizes the Information Schema, a built-in Snowflake resource, and a SQL query within Snowsight to directly retrieve the required information. Filtering by the 'last_altered' column provides a precise list of tables not loaded in the last 7 days. Option E is the correct and more convenient. Creating a custom dashboard using the Information Schema within Snowsight is the most convenient way of monitoring data. Option A requires manual inspection, which is inefficient. Option C doesn't provide precise filtering. Option D will retrieve the 'last_altered' value but then manual filtering required.

NEW QUESTION # 25
A financial institution is using Snowflake to store customer communications. They need to translate all incoming emails from various languages into English for compliance purposes. The
'EMAILS' table has columns 'EMAIL ID', 'EMAIL CONTENT', and DETECTED LANGUAGE. Due to the high volume of emails, they want to optimize the translation process using a virtual warehouse and caching. Which of the following strategies will BEST improve the performance and cost-effectiveness of translating the emails using Snowflake Cortex LLM's 'TRANSLATE function? (Select all that apply)

- A. Bypass the Translate and do a simple copy of the EMAIL CONTENT in the destination table as its much faster.
- B. Create a materialized view that stores the translated emails, updating it incrementally as new emails arrive.
- C. Utilize Snowflake's result caching by ensuring the SQL queries calling the `TRANSLATE function are deterministic (same input always produces the same output) and the underlying data doesn't change frequently.
- D. Use a smaller virtual warehouse size to reduce costs, even if it takes longer to translate the emails.
- E. Use a larger virtual warehouse size for faster processing, even during off-peak hours.

Answer: B,C

Explanation:
Options C and D are the best strategies. Snowflake's result caching can significantly improve performance if the same translation requests are repeated, and the data hasn't changed.
Materialized views allow you to pre-compute and store the translations, reducing the need to call the 'TRANSLATE' function repeatedly. Larger warehouses (Option A) increase costs without necessarily improving efficiency if caching is not utilized. Smaller warehouses (Option B) might be cost-effective but increase processing time. Option E bypasses the problem, therefore is not a valid answer

NEW QUESTION # 26
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