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Snowflake SOL-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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 4	• 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.

Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q57-Q62):

NEW QUESTION # 57
You have enabled directory tables on an external stage pointing to an AWS S3 bucket. The S3 bucket contains millions of small JSON files. When you query the directory table, you notice that the query performance is slow, even when filtering by 'METADATA$FILENAME'. What strategies can you implement to optimize the performance of querying the directory table?

- A. Periodically refresh the directory table using 'ALTER STAGE REFRESH;'.
- B. Reduce the number of files in the S3 bucket. Directory tables perform better with fewer files.
- C. Create a materialized view on top of the directory table, including the 'METADATA$FILENAME , , and any other frequently filtered columns.
- D. Increase the virtual warehouse size used for querying the directory table.
- E. Create an index on the 'METADATA$FILENAME column of the directory table.

Answer: C

Explanation:
Creating a materialized view (Option B) is the most effective way to optimize the performance of querying a directory table. Materialized views pre-compute and store the results of a query, allowing for faster retrieval of data, especially when the underlying table (the directory table in this case) is large. Increasing warehouse size (Option A) can help to a certain extent, but a materialized view provides a more significant performance boost. Refreshing the directory table (Option C) keeps the metadata up- to-date but doesn't directly improve query performance.
Creating an index (Option D) is not possible on directory tables. While reducing the number of files (Option E) might help slightly, it's often impractical and doesn't address the underlying issue of querying a large dataset. It's best to handle millions of files with proper indexing and data partitioning.

NEW QUESTION # 58
What file extension is commonly used for Snowflake notebooks?

- A. .ipnb
- B. .txt
- C. .sql

- D. .ipynb

Answer: D

Explanation:
Snowflake notebooks use the.ipynbfile extension, the standard format for Jupyter notebooks. This format stores executable code, markdown, metadata, and cell outputs in a structured JSON layout. Snowflake adopts this format to ensure compatibility with the broader Python ecosystem, thereby enabling seamless migration between Snowflake and external notebook environments.
The .ipynb structure allows mixed SQL and Python cells, visualizations, Streamlit components, documentation, and stepwise development within Snowsight. It supports reproducibility, collaboration, and integration with Snowpark and Cortex.
Incorrect formats:
* .ipnbis a misspelling and invalid.
* .sqlis used for SQL scripts only.
* .txtcannot represent notebook metadata or cell structure.
Thus, .ipynb is the correct and only supported notebook format.

NEW QUESTION # 59
Which command is synonymous with the LIST command in Snowflake?

- A. LIS
- B. DESC
- C. LS
- D. SHOW

Answer: C

Explanation:
Snowflake allows users to list files in a stage using the LIST command, and it provides a shorthand alias: LS.
Both commands return identical results, including file name, size, last modified timestamp, and other metadata stored in the stage.
This is relevant for internal stages (user, table, named stages) and external stages backed by cloud storage. SHOW and DESC are unrelated commands-SHOW lists Snowflake metadata objects such as tables, schemas, or roles, while DESC describes object structures. "LIS" is not a Snowflake command. Therefore, LS is the exact shorthand synonym for LIST and is used identically in queries.

NEW QUESTION # 60
You are responsible for optimizing the data loading process into a Snowflake table 'PRODUCT REVIEWS'. The source data is in JSON format and contains nested structures. You notice that the virtual warehouse is consistently overloaded during the data loading process, and queries against the 'PRODUCT REVIEWS' table are slow after the data load. Which of the following strategies would BEST improve both the data loading performance and subsequent query performance, considering the use of INSERT statements?

- A. Use INSERT with SELECT statements to load the data and utilize the SLATERAL FLATTEN' function during the insertion process to flatten the nested JSON structure into relational columns.
Ensure the virtual warehouse used is appropriately sized and consider clustering the
'PRODUCT_REVIEWS' table based on commonly queried fields after loading.
- B. Create a smaller virtual warehouse specifically for data loading, and a separate, larger warehouse for querying. Use INSERT statements with 'OBJECT_CONSTRUCT to pre-process the JSON data before insertion.
- C. Use INSERT statements to load the data into a staging table with a VARIANT column. After the load, use CREATE TABLE AS SELECT (CTAS) with 'LATERAL FLATTEN' to transform the data into a structured table. Finally, swap the original table with the newly created structured table. Use smallest virtual warehouse.
- D. Use INSERT with SELECT statements to load the data and utilize the `LATERAL FLATTEN' function during the insertion process to flatten the nested JSON structure into relational columns.Use 'auto suspend' feature on virtual warehouse to save costs.
- E. Increase the size of the virtual warehouse used for data loading. Use INSERT statements to load directly from the staged files using the JSON data.

Answer: A

Explanation:
Option C provides the most comprehensive solution. `LATERAL FLATTEN' efficiently transforms the nested JSON data during

the insert process, improving query performance by eliminating the need to process JSON at query time. Using an appropriately sized warehouse and clustering the table on commonly queried fields further enhances query performance. Option A only addresses warehouse sizing but does not account for query optimization via flattening. Option B might help with resource allocation, but constructing JSON objects is not efficient. Option D does not use insert statement. Option E, turning on auto suspend will impact performance.

NEW QUESTION # 61
What is a key benefit of using Snowsight for loading data into Snowflake?

- **A. Simplified and intuitive data loading process**
- B. Manual data storage configuration
- C. Limited to specific file formats
- D. Requires external tools for data loading

Answer: A

Explanation:
Snowsight provides an intuitive UI-based workflow for loading data, enabling drag-and-drop file upload, schema inference, previewing records, automatic table creation, and loading into existing tables. Users can load CSV, JSON, Parquet, AVRO, ORC, and other supported formats without writing COPY INTO commands manually.
Snowsight also generates the equivalent SQL code, helping users understand and reuse ingestion scripts in pipelines. It eliminates the need for external tools such as SnowSQL CLI or custom ETL scripts.
Incorrect statements:
* External tools are not required.
* Manual storage configuration is unnecessary; Snowflake abstracts all storage.
* Snowsight supports a wide variety of formats, not limited ones.
Thus, the key advantage is a simple, guided data-loading workflow, especially useful for new Snowflake users.

NEW QUESTION # 62
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As is known to us, the leading status of the knowledge-based economy has been established progressively. It is more and more important for us to keep pace with the changeable world and improve ourselves for the beautiful life. So the SOL-C01 certification has also become more and more important for all people. Because a lot of people long to improve themselves and get the decent job. In this circumstance, more and more people will ponder the question how to get the SOL-C01 Certification successfully in a short time.

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