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Snowflake SOL-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 2	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 4	<ul style="list-style-type: none">• 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 (Q38-Q43):

NEW QUESTION # 38

What is the primary benefit of the separation of storage and compute in Snowflake?

- A. It allows independent scaling of resources.
- B. It reduces network latency.
- C. It eliminates the need for data loading.
- D. It simplifies data governance.

Answer: A

Explanation:

Snowflake's architecture separates storage and compute, enabling:
* Compute scaling (up/down or multi-cluster) without changing storage
* Storage expansion without affecting compute
* Cost optimization by paying for compute only when needed

This separation does not impact governance, latency, or data loading requirements.

NEW QUESTION # 39

What file extension is commonly used for Snowflake notebooks?

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

Answer: B

Explanation:

Snowflake notebooks use the.ipynb file 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 # 40

You need to configure Snowflake to automatically suspend a virtual warehouse named 'ANALYTICS' after 10 minutes of inactivity and resume it when a query is submitted. Which of the following SQL commands achieve this?

- A. `sql ALTER WAREHOUSE ANALYTICS WH SET AUTO SUSPEND = TRUE; ALTER WAREHOUSE ANALYTICS WH SET INACTIVITY TIMEOUT = 600
- B. `sql ALTER WAREHOUSE ANALYTICS WH SET AUTO SUSPEND = 10; ALTER WAREHOUSE ANALYTICS WH SET AUTO RESUME = TRUE;
- C. ALTER WAREHOUSE ANALYTICS_WH SET AUTO SUSPEND = 600; ALTER WAREHOUSE ANALYTICS_WH SET AUTO RESUME = TRUE; ALTER WAREHOUSE ANALYTICS_WH SET AUTO RESUME INITIAL SIZE = 'MEDIUM';
- D. **ALTER WAREHOUSE ANALYTICS_WH SET AUTO SUSPEND = 600; ALTER WAREHOUSE ANALYTICS_WH SET AUTO RESUME = TRUE;**
- E. ALTER WAREHOUSE ANALYTICS_WH SET AUTO SUSPEND = 600; ALTER WAREHOUSE ANALYTICS_WH SET AUTO RESUME = 'ON'

Answer: D

Explanation:

The 'AUTO_SUSPEND' parameter controls the number of seconds of inactivity before a warehouse is automatically suspended. 10 minutes is equal to 600 seconds. 'AUTO RESUME' set to 'TRUE' enables the warehouse to automatically resume when a query is submitted. Option B is incorrect because 'INACTIVITY_TIMEOUT' does not exist. Option C is incorrect as 'AUTO_RESUME' only accepts boolean values. Option D is incorrect as auto suspend is configured for only 10 seconds. Option E is unnecessarily complicated, the core functionality is achieved by the two commands in option A. Setting initial warehouse size is an optimization, not essential for auto resume to function.

NEW QUESTION # 41

You have created a virtual warehouse in Snowflake and loaded data into several tables. You observe that query performance is inconsistent, with some queries running quickly and others taking significantly longer, even though they access similar data. You suspect resource contention is the issue. What steps can you take to improve query performance and manage resource contention effectively? Select all that apply.

- A. Increase the size of the virtual warehouse to provide more computing resources.
- B. Reduce the number of concurrent users accessing the system.
- C. Create separate virtual warehouses for different workloads (e.g., data loading, reporting) to isolate resource usage.
- D. Enable query acceleration to offload suitable workloads and reduce warehouse load.
- E. Implement workload management rules to prioritize critical queries and limit resource consumption for less important tasks.

Answer: A,C,D,E

Explanation:

Options A, B, C, and D are all valid strategies for improving query performance and managing resource contention. Increasing warehouse size (A) provides more resources. Query Acceleration Service (B) can significantly reduce latency for eligible queries and reduce overall warehouse load. Separate warehouses (C) isolate workloads. Workload management (D) allows prioritizing critical queries and limiting resources for others. Option E, while it might alleviate contention, is not a scalable solution and limits usability; better resource management is preferred.

NEW QUESTION # 42

You have a Snowflake virtual warehouse named 'XSMALL WI-4' configured to auto-suspend after 5 minutes of inactivity. You execute a complex query that takes 7 minutes to complete. What will happen to the query's execution and the virtual warehouse?

- A. The query will complete successfully, and the warehouse will remain active until manually suspended.
- B. The query will complete successfully, and the warehouse will be suspended 5 minutes after the query finishes.
- C. The query will complete successfully, and the warehouse will remain active for another 5 minutes after the query completes, before auto-suspending.
- D. The query will be terminated after 5 minutes, and the warehouse will be suspended.
- E. The query will complete successfully, and the warehouse will be suspended immediately after the query finishes.

Answer: C

Explanation:

The auto-suspend timer is reset each time the warehouse is used. Since the query takes 7 minutes, the warehouse is active during that time. After the query completes, the 5-minute auto-suspend timer starts. Therefore, the warehouse will remain active for another 5 minutes before auto-suspending.

NEW QUESTION # 43

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