

Snowflake SOL-C01 Exam Tips, New SOL-C01 Exam Preparation



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Snowflake SOL-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
Topic 4	<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.

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

NEW QUESTION # 21

A data engineering team uses Snowflake to load and transform large datasets. They have observed that a specific transformation job consistently takes an unacceptably long time to complete, even though the warehouse is sized at X-LARGE. Which of the following actions, individually or in combination, would be MOST effective in reducing the job's execution time?

- A. Upgrade the warehouse to a 2X-LARGE size. This ensures more compute resources are available.
- B. Change the warehouse from 'Auto-Suspend' to 'Never-suspend' to keep the warehouse active even when idle.
- C. Enable Multi-cluster warehouse and set the minimum and maximum clusters to 1 and 1 respectively.
This will allow for automatic scaling.
- **D. Review the query execution plan to identify performance bottlenecks such as full table scans or inefficient joins, and optimize the SQL code accordingly. This is often more effective than simply increasing warehouse size.**
- E. Partition the source data into smaller files. Smaller files are always loaded faster.

Answer: D

Explanation:

While increasing warehouse size (A) might help, it's a brute-force approach. Multi-cluster with min/max set to 1 (B) is essentially a single warehouse. 'Never-suspend' (D) only keeps the warehouse running, not faster. Smaller files (E) is relevant during data loading, but the question focuses on transformation. The most effective action is always optimizing the SQL query itself (C). This addresses the root cause of the performance issue, which is likely inefficient query processing, rather than simply throwing more hardware at the problem. Analyzing the query plan will reveal bottlenecks that can be addressed with indexing, query rewriting, or data clustering.

NEW QUESTION # 22

You are developing a Snowflake Notebook to analyze sales data. You want to create a dynamic SQL query that filters data based on a parameter passed from a user interface element (e.g., a dropdown). How can you best achieve this within a Snowflake Notebook, ensuring SQL injection vulnerabilities are mitigated?

- A. Directly concatenate the parameter value into the SQL query string using Python string formatting.
- **B. Use Snowflake's built-in parameterization feature within the SQL cell. For example: ``sql SELECT FROM sales WHERE region = :region_param; and then assign the `region_param` variable in a Python cell.**
- C. Use JavaScript stored procedure to generate SQL string and execute the query.
- D. Store the parameter in a Snowflake session variable and reference the session variable in the SQL query string.
- **E. Use the `snowflake.connector` library to create a prepared statement with parameterized query execution from a Python cell.**

Answer: B,E

Explanation:

Options B and C are the most secure and recommended approaches. Option B leverages Snowflake Notebook's built-in parameterization, which handles escaping and prevents SQL injection. Option C uses the `snowflake.connector` to achieve similar result. Option A is highly susceptible to SQL injection. Option D is less suitable for dynamic parameters from a UI. Option E increases the complexity significantly and doesn't directly address parameterization within the notebook environment.

NEW QUESTION # 23

What types of worksheets can be created in Snowsight? (Select TWO).

- A. SQL
- B. Javascript
- C. Java
- D. Scala
- E. Python

Answer: A,E

Explanation:

Snowsight supports two worksheet types: SQL worksheets and Python worksheets. SQL worksheets allow users to execute queries, create objects, and perform data analysis using ANSI SQL and Snowflake-specific extensions. Python worksheets, powered by Snowpark, allow users to write Python code that interacts directly with Snowflake tables, data frames, and machine learning workflows.

Java, Scala, and JavaScript are supported via Snowpark APIs or UDF development, but they cannot be used as worksheet languages. Worksheets are designed for interactive analysis, visualization, and iterative development, with native runtimes only for SQL and Python.

Thus, only SQL and Python worksheets can be created within Snowsight.

NEW QUESTION # 24

What options are available under the settings for Python worksheets? (Choose any 2 options)

- A. Return Type
- B. Output
- C. Handler
- D. Return Value

Answer: A,C

Explanation:

In Snowflake Python worksheets, settings include the Handler and Return Type. The Handler identifies the specific Python function that serves as the entry point for execution-essential when deploying code as stored procedures or user-defined functions. The Return Type defines how Snowflake interprets the output, such as STRING, VARIANT, or TABLE, ensuring proper result rendering. "Return Value" is not a worksheet setting but rather the outcome produced by the code itself, and "Output" is not a configuration option.

NEW QUESTION # 25

What are the steps to create a new stage in Snowsight?

- A. Data >> Create Schema
- B. Data Product >> Create Schema
- C. Data >> Database >> Schema >> Create Stage
- D. Data >> add data >> Create Schema

Answer: C

Explanation:

To create a new stage in Snowsight, users navigate through: Data # Database # Schema # Create Stage. Within the schema, selecting the "+" icon opens the option to create a stage. Users may configure internal or external stages, encryption settings, and directory table options. Other paths listed reference creating schemas rather than creating stages and are therefore incorrect.

NEW QUESTION # 26

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