

# New Valid SOL-C01 Exam Answers 100% Pass | Valid SOL-C01: Snowflake Certified SnowPro Associate - Platform Certification 100% Pass

## **DATABASE MANAGEMENT SYSTEMS EXAM 1 LATEST UPDATE 2026 QUESTIONS WITH CORRECT ANSWERS PLUS RATIONALES | GRADED A**

### **1. What is a Database?**

**Answer:** A structured collection of related data

**Rationale:** Databases store data in an organized way to allow efficient access and management.

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### **2. A DBMS is best described as:**

- A. A programming language
- B. A file system
- C. Software for managing databases
- D. A hardware device

**Answer:** C

**Rationale:** A DBMS is software that creates, manages, and controls access to databases.

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### **3. Which of the following is NOT a function of a DBMS?**

- A. Data storage
- B. Data security
- C. Data redundancy increase
- D. Data retrieval

**Answer:** C

**Rationale:** DBMSs aim to **reduce**, not increase, redundancy.

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### **4. Example of a DBMS:**

- A. Microsoft Word
- B. Oracle
- C. Linux
- D. Python

**Answer:** B

**Rationale:** Oracle is a relational DBMS.

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## **Snowflake SOL-C01 Exam Syllabus Topics:**

<b>Topic</b>	<b>Details</b>
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

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## Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q161-Q166):

### NEW QUESTION # 161

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. Use JavaScript stored procedure to generate SQL string and execute the query.
- B. Directly concatenate the parameter value into the SQL query string using Python string formatting.
- C. 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.
- D. Use the 'snowflake.connector' library to create a prepared statement with parameterized query execution from a Python cell.
- E. Store the parameter in a Snowflake session variable and reference the session variable in the SQL query string.

**Answer: C,D**

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 # 162

A data engineer is tasked with loading JSON data representing customer interactions into Snowflake. The JSON files contain varying schemas and nested arrays. To optimize query performance and minimize storage costs, which approach is MOST appropriate for handling the semi-structured data during loading, considering efficient data access patterns?

- A. Create a relational schema based on the most common JSON structure and load only those fields into corresponding columns, discarding any other data.
- B. Use a CREATE VIEW statement to flatten and transform the VARIANT column into a relational structure for querying.
- C. Utilize Snowflake's schema detection feature during loading to automatically create a relational table with appropriate data types for the JSON data.
- D. Load the JSON data directly into a VARIANT column without any transformations and use LATERAL FLATTEN to extract data during querying.
- E. Parse and pre-process the JSON data outside Snowflake to create a consistent relational structure before loading.

**Answer: C**

Explanation:

Snowflake's schema detection during loading automatically creates a relational table based on the JSON data's structure, assigning appropriate data types. This avoids the overhead of manual schema definition and data transformation. While VARIANT can be used initially, schema detection provides a structured approach for querying semi-structured data. Choosing a relational schema upfront and discarding extra fields (B) leads to data loss. Using a view on a VARIANT column adds query overhead. Pre-processing outside Snowflake adds complexity.

**NEW QUESTION # 163**

What Snowflake object provides a secure connection to external cloud storage?

- A. An external stage
- B. An external table
- C. A directory table
- D. A named file format

**Answer: A**

Explanation:

An external stage is the Snowflake object that encapsulates a secure connection to external cloud storage such as Amazon S3, Azure Blob Storage, or Google Cloud Storage. It stores the location (URL or bucket path) and, where required, credentials or role-based access configuration, and may also reference a file format. External stages are used as the source or target for COPY INTO operations when loading from or unloading to external storage.

An external table provides a logical SQL interface to data stored externally but relies on a stage for connectivity; it does not itself define the connection. A directory table exposes metadata about files stored in a stage, not the connection. A named file format defines parsing rules (type, delimiter, compression) but has no knowledge of or connection to a specific external storage location.

**NEW QUESTION # 164**

A data engineer wants to transfer ownership of a database named 'SALES DATA' to a role named 'DATA ADMIN'. The data engineer executes the following command: "sql GRANT OWNERSHIP ON DATABASE SALES DATA TO ROLE DATA ADMIN; However, the command fails. Which of the following is the MOST likely reason for the failure?

- A. The command is syntactically incorrect. GRANT OWNERSHIP requires a 'REVOKE CURRENT GRANTS' clause to be specified.
- B. The 'DATA ADMIN' role does not exist.
- C. The data engineer must first relinquish ownership before granting ownership to another role.
- D. The 'SALES DATA' database does not exist.
- E. The data engineer does not have the 'OWNERSHIP' privilege on the 'SALES \_DATA database.

**Answer: E**

Explanation:

To transfer ownership of an object in Snowflake, the user executing the command must have the 'OWNERSHIP' privilege on the object. Without the 'OWNERSHIP' privilege, the user cannot grant ownership to another role, regardless of whether the role exists or the database exists. Options B and C are invalid reasons because Snowflake would throw specific error messages indicating that the database/role does not exist. Option D is incorrect because the 'REVOKE CURRENT GRANTS' clause is not always required. Option E is incorrect because the user with ownership can directly transfer it without first relinquishing it.

**NEW QUESTION # 165**

What is the purpose of a FILE FORMAT object in Snowflake?

- A. To define security policies for data files
- B. To create data backups.
- C. To manage virtual warehouse sizes.
- D. To specify the format and structure of data files being loaded (e.g., CSV delimiter, JSON compression)

## Answer: D

Explanation:

AFILE FORMAT object defines how Snowflake interprets files during loading and unloading operations. It includes settings such as:

- \* Type (CSV, JSON, Parquet, Avro)
- \* FIELD\_DELIMITER, SKIP\_HEADER, NULL\_IF
- \* Compression (GZIP, BZ2)
- \* Time and date format handling
- \* Encoding and escape character rules

By encapsulating these parsing rules, organizations standardize ingestion logic across stages and COPY INTO commands.

FILE FORMATS improve data consistency, reduce errors, and simplify maintenance by centralizing file parsing configurations. They do not manage compute resources, create backups, or define data security policies-those belong to warehouses, fail-safe/Time Travel, and RBAC respectively.

## NEW QUESTION # 166

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