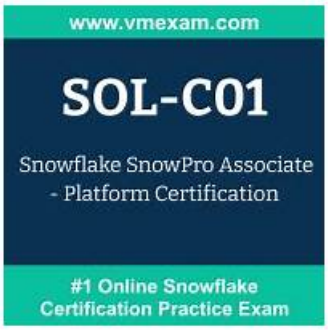
Snowflake - SOL-C01 - Snowflake Certified SnowPro Associate - Platform Certification–High-quality Exam Introduction



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Snowflake SOL-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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 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 (Q196-Q201):

NEW QUESTION # 196
Which two statements describe Snowflake's elasticity features? (Choose two)

- A. Snowflake supports semi-structured data formats
- B. Storage and compute are tightly coupled for high performance
- C. Storage scales automatically based on demand
- D. Compute resources can scale independently

Answer: C,D

NEW QUESTION # 197
What types of worksheets can be created in Snowsight? (Select TWO).

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

Answer: B,E

Explanation:
Snowsight supports two worksheet types:SQL worksheetsandPython 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 # 198
You are tasked with creating a Snowflake Notebook that reads data from an external stage (AWS S3), transforms it using Python, and then loads the transformed data into a Snowflake table. The external stage requires authentication using AWS IAM roles. Which of the following steps are necessary to configure the connection and access the data from the external stage within your Snowflake Notebook using Python? (Choose all that apply.)

- A. Grant the necessary privileges (e.g., USAGE, READ) on the storage integration object to the Snowflake role used by the Notebook session.
- B. Use the AWS SDK for Python (bot03) within the Snowflake Notebook to assume the IAM role and access the S3 bucket directly.
- C. Create a Snowflake storage integration object that defines the AWS IAM role ARN and the S3 bucket URL.

- D. Configure the AWS IAM role to trust the Snowflake account and grant it access to the S3 bucket.
- E. Create a Snowflake external table that points to the S3 bucket and uses the storage integration.

Answer: A,C,D,E

Explanation:
Options A, B, C, and E are essential. To access data in an external stage secured with IAM roles, you need a Snowflake storage integration object (A) that defines the connection to S3. You must grant privileges on this integration to the appropriate Snowflake role (B). The IAM role must be configured to trust Snowflake (C). Finally, you typically create an external table (E) that uses the storage integration to access the data in S3. Using bot03 directly (D) is generally not necessary and bypasses Snowflake's security and governance mechanisms for accessing external stages.

NEW QUESTION # 199
You have a Snowflake table named 'SALES DATA' that you load data into daily from a CSV file using Snowsight. Recently, the load times have increased significantly. You suspect the Virtual Warehouse size is the bottleneck. You have the following Virtual Warehouse sizes available: X- Small, Small, Medium, Large, X-Large. Choosing the best size depends on cost and speed. You examine the Query History in Snowsight and notice that the COPY INTO commands are consistently using only a small fraction of the X-Large warehouse's compute resources. Which of the following actions would be the MOST cost- effective while also potentially improving (or at least maintaining) the data loading performance?

- A. Increase the Virtual Warehouse size to 2X-Large. This will guarantee faster load times.
- B. Switch to using Snowpipe for continuous data ingestion instead of COPY INTO. This may improve load times but requires additional configuration and cost analysis.
- C. Decrease the Virtual Warehouse size to Small or Medium. Since the current warehouse is underutilized, a smaller size will reduce costs without significantly impacting performance.
- D. Enable auto-suspend on the X-Large warehouse if it isn't already enabled. This will reduce costs when the warehouse is idle but won't address the loading bottleneck.
- E. Keep the X-Large warehouse but investigate other potential bottlenecks, such as the file format definition, network latency, or concurrency issues with other queries. Consider using a dedicated warehouse for loading only. Also consider increasing number of parallel threads for loading.

Answer: E

Explanation:
Since the X-Large warehouse is underutilized, increasing its size is not cost-effective. Reducing the size might further degrade performance. Enabling auto-suspend only addresses idle costs.
The best approach is to investigate other potential bottlenecks while maintaining the current (potentially oversized) warehouse. Using a dedicated warehouse isolates the loading workload.
Snowpipe is a good alternative, but it's a more complex solution that requires evaluation and isn't the immediately cost effective solution. Option D addresses both performance and cost concerns without making assumptions about Snowpipe's suitability in this specific scenario. Parallel threads increase concurrency, which can speed up loading of multiple files.

NEW QUESTION # 200
You are developing a Snowflake Notebook to analyze sales data. You need to connect to a Snowflake database using Python and execute a query to retrieve the top 10 products by sales volume. Which of the following code snippets is the MOST efficient and secure way to achieve this, assuming you've already configured the necessary connection details and have 'snowflake.connector' installed?

- A.
```
import snowflake.connector import os ctx = snowflake.connector.connect( user=os.environ['SNOWFLAKE_USER'], password=os.environ['SNOWFLAKE_PASSWORD'], account=os.environ['SNOWFLAKE_ACCOUNT'] ) cs = ctx.cursor() query = "SELECT product_name, SUM(quantity) AS total_quantity FROM sales GROUP BY product_name ORDER BY total_quantity DESC LIMIT 10" try: cs.execute(query) results = cs.fetchall() for row in results: print(row) except snowflake.connector.errors.ProgrammingError as e: print(f"Error executing query: {e}") finally: cs.close() ctx.close()
```
- B.
```
import snowflake.connector ctx = snowflake.connector.connect( user='', password='', account='' ) cs = ctx.cursor() cs.execute("SELECT product_name, SUM(quantity) AS total_quantity FROM sales GROUP BY product_name ORDER BY total_quantity DESC LIMIT 10") for (product_name, total_quantity) in cs: print(f'{product_name}: {total_quantity}') ctx.close()
```
- C.

```
import snowflake.connector ctx = snowflake.connector.connect( user=os.environ['SNOWFLAKE_USER'], password=os.environ['SNOWFLAKE_PASSWORD'], account=os.environ['SNOWFLAKE_ACCOUNT'] ) cs = ctx.cursor() query = "SELECT product_name, SUM(quantity) AS total_quantity FROM sales GROUP BY product_name ORDER BY total_quantity DESC LIMIT 10" cs.execute(query) results = cs.fetchall() for row in results: print(row) ctx.close()
```

- D.

```
import snowflake.connector ctx = snowflake.connector.connect( user='', password='', account='' ) cs = ctx.cursor() query = "SELECT product_name, SUM(quantity) AS total_quantity FROM sales GROUP BY product_name ORDER BY total_quantity DESC LIMIT 10" cs.execute(query) results = cs.fetchmany(10) for row in results: print(row) ctx.close()
```

- E.

```
import snowflake.connector import os ctx = snowflake.connector.connect( user=os.environ['SNOWFLAKE_USER'], password=os.environ['SNOWFLAKE_PASSWORD'], account=os.environ['SNOWFLAKE_ACCOUNT'], warehouse=os.environ.get('SNOWFLAKE_WAREHOUSE', 'COMPUTE_WH'), database=os.environ.get('SNOWFLAKE_DATABASE', 'SALES_DB'), schema=os.environ.get('SNOWFLAKE_SCHEMA', 'PUBLIC') ) cs = ctx.cursor() query = "SELECT product_name, SUM(quantity) AS total_quantity FROM sales GROUP BY product_name ORDER BY total_quantity DESC LIMIT 10" cs.execute(query) for product_name, total_quantity in cs.fetchall(): print(f'{product_name}: {total_quantity}') ctx.close()
```

Answer: A

Explanation:
Option E is the most secure and robust. It utilizes environment variables to store credentials securely, includes error handling for potential query execution issues, and ensures that the cursor and connection are closed properly in a `finally' block, even if an error occurs. Option A hardcodes credentials, which is a major security risk. Options B and C don't include comprehensive error handling. Option D uses 'fetchmany(10)' , which might not fetch all results if there are exactly 10 rows and is less common for retrieving all rows.

NEW QUESTION # 201
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