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## Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q153-Q158):

### NEW QUESTION # 153

Which Snowflake object is a logical container for schemas and other database objects?

- A. View
- B. Database
- C. Table
- D. Schema

**Answer: B**

Explanation:

A Database is the highest logical container for schemas and their objects in Snowflake.

Hierarchy:

Account # Database # Schema # Tables, Views, Stages, etc.

Schemas organize objects within a database; tables and views do not contain objects.

#### NEW QUESTION # 154

You have a Snowflake Notebook that performs several complex data transformations. The notebook is taking longer than expected to run, and you need to optimize its performance. Which of the following actions would likely improve the notebook's execution speed the most?

- A. Explicitly commit transactions after each SQL cell execution.
- B. **Optimize SQL queries for performance using techniques such as clustering, partitioning, and appropriate join strategies.**
- C. **Upgrade the Snowflake virtual warehouse to a larger size while the notebook is running.**
- D. Use the 'LIMIT clause in your SQL queries to only process a subset of the data during development and testing.
- E. Re-order the notebook cells so that SQL cells are grouped together and Python cells are grouped together.

**Answer: B,C**

Explanation:

Options A and E are correct. Option A: Upgrading the warehouse size provides more resources (CPU, memory) for the notebook's computations. Option E: Optimized SQL queries are fundamental for performance in Snowflake; correct use of clustering, partitioning and efficient joins drastically reduces execution time. Option B has a minimal impact. Option C is only useful during development, not for production performance. Option D is unnecessary in most cases as Snowflake typically autocommits; explicitly committing will likely degrade performance, not improve it.

#### NEW QUESTION # 155

How can users integrate Streamlit with Snowflake notebooks?

- A. By creating manual scripts
- B. **By using Streamlit functions within Python code in the notebook**
- C. By writing HTML code
- D. By configuring network settings

**Answer: B**

Explanation:

Snowflake Notebooks provide native integration with Streamlit, allowing users to build interactive data apps directly inside Snowflake. Users can call Streamlit functions such as st.write(), st.dataframe(), st.button(), and st.slider() within Python cells. No external HTML, scripting, or network configuration is required. Streamlit components execute seamlessly in the notebook environment, enabling dashboards and interactive visualizations on top of Snowflake data.

#### NEW QUESTION # 156

A company utilizes Snowflake's elastic compute capabilities for its daily batch processing jobs.

They have noticed that the warehouse consistently scales up to X-Large during the peak processing window (8 PM to 10 PM PST) and then scales back down. However, the cost of running the X-Large warehouse for these 2 hours is becoming significant. They are considering optimizing their compute costs. Which of the following strategies would be the MOST effective in reducing compute costs without significantly impacting the overall processing time of the batch jobs?

- A. Implement workload management rules to prioritize critical queries during the peak processing window. This can improve the efficiency of the warehouse and potentially reduce the need for scaling up to X-Large.
- B. **Switch to using Snowflake's Serverless tasks for the batch processing jobs. Serverless tasks automatically manage compute resources and optimize costs based on actual usage.**
- C. Enable auto-suspend for the warehouse with a shorter timeout period (e.g., 5 minutes). This will ensure the warehouse suspends quickly when idle, minimizing unnecessary compute usage.
- D. **Analyze the SQL queries executed during the batch jobs and identify inefficient queries that consume excessive compute resources. Optimize these queries by rewriting them, adding appropriate indexes, or leveraging Snowflake's query optimization features.**

- E. Reduce the warehouse size to Large to decrease the hourly compute cost. While this will reduce costs, it will likely increase the overall processing time.

**Answer: B,D**

Explanation:

Optimizing SQL queries (Option D) is crucial for reducing compute costs. Efficient queries consume fewer resources, potentially reducing the need for a larger warehouse. Switching to Serverless tasks (Option E) is also highly effective, as Snowflake automatically manages compute resources and only charges for actual usage. Options A and B are less effective.

Reducing the warehouse size (A) will increase processing time, negating the cost savings. Auto-suspending (B) is good practice, but doesn't directly address the root cause. Prioritizing queries (C) is a good strategy but might not be as impactful as optimizing queries or using Serverless tasks.

### NEW QUESTION # 157

You are tasked with loading data into a Snowflake table 'SALES DATA' that contains columns 'SALE ID (NUMBER)', 'PRODUCT ID (NUMBER)', 'SALE DATE (DATE)', and 'SALE AMOUNT (NUMBER)'. You have a CSV file with the same fields. However, some rows in the CSV file contain invalid date formats (e.g., '2024/01/01' instead of 'YYYY-MM-DD'). You want to handle these errors during the data loading process without aborting the entire load operation. Which of the following options BEST describes how to achieve this using the 'INSERT' command with data from a stage?

- A. Use before the insert statement to identify invalid rows, then filter those rows out using a WHERE clause in the INSERT statement.
- B. Create a file format with 'ON ERROR = 'SKIP\_FILE'', and Snowflake will automatically skip the file if it encounters an error. Then insert into target table.
- C. Create an error table and specify 'ON\_ERROR = 'CONTINUE'' file format option, then use 'TO\_DATE' function with a custom date format and then load data. Once loading is done, query error table to find the bad records.
- D. Use the function with a custom date format. If TO\_DATE fails, it will throw an error and abort the insert operation but this is undesirable. There isn't a way to tell TO\_DATE to skip errors.
- E. Use in the INSERT statement. Rows with invalid date formats will result in NULL values for the 'SALE\_DATE' column, and the insert operation will continue. Then filter out rows where SALE\_DATE is NULL using a WHERE clause.

**Answer: E**

Explanation:

Using allows Snowflake to attempt to convert the date, and if it fails, it returns NULL. This allows the INSERT statement to complete without errors. The data can then be filtered using a WHERE clause to exclude these invalid dates. Option A involves a separate validation step, which adds complexity and doesn't directly handle the error during the INSERT operation. Option B skips the entire file, which is not desirable as only some rows are bad. Option D aborts the whole operation which we want to avoid. Option E works, but it doesn't use INSERT statement.

### NEW QUESTION # 158

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Another example demonstrates additional ways to combine control statements to solve a similar problem, This oversight is

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