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Snowflake SOL-C01 SnowPro Associate - Platform Certification

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Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q160-Q165):

NEW QUESTION # 160

What cell types are available in Snowflake Notebooks? (Select THREE).

- A. SQL
- B. Java
- C. Scala
- D. Markdown
- E. R
- F. Python

Answer: A,D,F

Explanation:

Snowflake Notebooks currently support three primary cell types: SQL, Python, and Markdown. SQL cells allow users to execute SQL queries directly against Snowflake data. Python cells enable computation, data transformation, machine learning, and visualization using Snowpark, pandas-like APIs, and Python libraries.

Markdown cells provide rich text formatting to document workflows, add explanations, and create readable narratives within the notebook.

Languages such as Java, Scala, and R are supported by Snowflake outside notebooks—for example, through Snowpark APIs or external integrations—but they cannot be used directly as Notebook cell types. Notebooks are designed to integrate SQL and Python seamlessly while providing a documentation layer, making SQL, Python, and Markdown the correct and only supported options.

NEW QUESTION # 161

A company is experiencing inconsistent query performance in their Snowflake environment.

Some queries execute quickly, while others, seemingly similar, take significantly longer. They suspect that the virtual warehouse sizing is not optimal. Which of the following strategies would be the MOST comprehensive approach to diagnosing and resolving this issue, assuming you have access to Snowflake's monitoring tools and SQL?

- A. Enable the Query Acceleration Service. This will automatically improve query performance.
- B. Cluster the tables that are frequently joined together, especially those involved in slow queries. Also, monitor average query execution time based on warehouse size over time to find an optimal size.
- C. Use the Snowflake web interface to review query history and identify queries with long execution times. Analyze the query profiles of these slow queries to pinpoint performance bottlenecks such as full table scans or inefficient joins.
- D. Implement Resource Monitors to limit the credit usage of specific users or groups. This will prevent a single user from monopolizing warehouse resources and impacting other users' query performance.
- E. Continuously monitor the warehouse's CPU utilization and memory usage during peak hours. If utilization is consistently high, immediately upgrade the warehouse to the next larger size.

Answer: B,C

Explanation:

While monitoring CPU utilization (A) is helpful, it's not the most comprehensive. Query Acceleration service (B) may help to accelerate, but will not diagnose the underlying issue.

Resource Monitors (D) address credit usage but don't directly improve query performance. The most comprehensive approach is to analyze slow queries using query profiles (C) to understand bottlenecks. Then you must improve data locality by Clustering Tables (E). Also, the sizing of a warehouse needs monitoring over time to ensure its performing at its best. The best choice is to first identify the root cause of performance issues (C, E) before taking action.

NEW QUESTION # 162

What are the benefits of using the Snowsight data loading interface? (Select TWO).

- A. It creates permanent file formats that can be used to load data in the future.
- B. It allows a user to optimize data loading into a table.
- C. It allows a user to insert the records of a supported file into a table.
- D. It will try to detect data types.
- E. It lets a user merge file rows into the table records.

Answer: C,D

Explanation:

Snowsight's file-loading interface:

*Automatically detects data types by inspecting column values.

*Loads (inserts) file contents directly into a table, either a new table or an existing one.

Snowsight does not automatically create permanent file formats, does not merge rows, and does not optimize warehouse-level performance.

NEW QUESTION # 163

You are using Snowsight to monitor the performance of several queries. You notice a query that took significantly longer than expected.

Which of the following actions, available directly within the Snowsight Query History Details panel, would BEST help you diagnose the cause of the slow performance?

- A. Check the 'Warehouse Load' graph to see if the warehouse was under heavy load during the query execution.
- B. Examine the SQL text of the query and identify potential areas for optimization based on syntax.
- C. Analyze the 'Compilation Time' to determine if query compilation contributed significantly to the overall execution time.
- D. Download the query results to your local machine for further analysis.
- E. Review the 'Query Profile' to identify specific execution stages that consumed the most resources.

Answer: A,C,E

Explanation:

The Query Profile provides a detailed breakdown of the query execution, allowing you to pinpoint specific stages that are slow.

Checking the Warehouse Load helps determine if resource contention was a factor. Analyzing the Compilation Time reveals if the query spent a significant amount of time compiling before execution. Examining the SQL text directly (option A) can be helpful, but the Query Profile provides more granular performance data within Snowsight.

Downloading results (option E) does not directly aid in diagnosing performance issues within Snowflake.

NEW QUESTION # 164

How does Snowflake process queries?

- A. Using MPP compute clusters
- B. With shared-disk architecture
- C. Through third-party connectors
- D. By optimizing data in cloud storage

Answer: A

Explanation:

Snowflake processes queries using Massively Parallel Processing (MPP) compute clusters, deployed as virtual warehouses. Each warehouse consists of multiple compute nodes working in parallel to execute queries efficiently. When a query is submitted, Snowflake distributes tasks across nodes, processes data subsets concurrently, and aggregates results. This architecture enables high performance, scalability, and the ability to handle complex analytical workloads. While Snowflake does incorporate elements of shared-disk storage, query execution itself depends on MPP compute clusters. Options such as third-party connectors or storage optimization do not represent the core query processing mechanism.

NEW QUESTION # 165

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