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Snowflake SOL-C01 Exam Syllabus Topics:

Section	Objectives
Topic 1: Security & Data Protection	- Access control and governance • 1. Role-based access control (RBAC) • 2. Data encryption concepts
Topic 2: Snowflake Architecture & Data Platform	- Snowflake architecture concepts • 1. Separation of compute and storage • 2. Virtual warehouses
Topic 3: Performance & Optimization	- Performance tuning • 1. Caching mechanisms • 2. Warehouse scaling strategies
Topic 4: Data Loading & Unloading	- Data ingestion methods • 1. Continuous data loading concepts • 2. Bulk loading with stages
Topic 5: Data Transformation & Querying	- SQL and query processing • 1. Data transformation techniques • 2. Query execution in Snowflake
Topic 6: Account & Resource Management	- Snowflake account administration • 1. Billing and usage tracking • 2. Resource monitors

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Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q46-Q51):

NEW QUESTION # 46

A data engineering team is experiencing performance issues with their nightly ETL pipeline in Snowflake. The pipeline involves complex transformations on a large dataset (5TB) and is executed within a single Snowflake virtual warehouse (size: Large). The team notices that the warehouse is frequently hitting resource limits (CPU and Memory) during peak processing times, even though the overall execution time is only 2 hours. Which of the following strategies would BEST address the performance bottleneck and optimize resource utilization, considering cost- effectiveness?

- A. Upgrade the virtual warehouse size to X-Large to provide more CPU and memory resources. This directly addresses the resource contention.
- B. Migrate the entire ETL pipeline to a different data processing platform like Apache Spark, as Snowflake is not suitable for complex transformations on large datasets.
- C. Implement scaling policies for the virtual warehouse. Configure it to automatically scale up to X- Large during the ETL pipeline's execution and then scale back down to Large when the pipeline completes.
- D. Break down the ETL pipeline into smaller, independent tasks and use multiple smaller virtual warehouses (size: Medium) to execute them in parallel. This utilizes Snowflake's multi-cluster architecture and distributes the workload.
- E. Optimize the SQL queries within the ETL pipeline by identifying and rewriting inefficient queries, adding appropriate indexes, and leveraging Snowflake's query optimization features.

Answer: D,E

Explanation:

Option C (Breaking down the ETL pipeline) is a strong choice as it leverages Snowflake's multi- cluster architecture for parallel processing, improving performance and resource utilization.

Option D (Optimizing SQL queries) is also crucial. Inefficient queries can significantly impact performance. Options A and B address the problem, but not as efficiently as C and D. While upgrading the warehouse (A) might provide temporary relief, it doesn't fundamentally address inefficiencies. Auto-scaling (B) is good, but splitting the load provides true parallelism. Option E is an extreme measure and likely unnecessary with proper optimization.

NEW QUESTION # 47

A data team is designing a data pipeline that loads data from S3 into Snowflake. The raw data in S3 is compressed using gzip and stored in multiple files. They want to use a Snowflake virtual warehouse to perform the data loading. Which of the following COPY INTO command options would be MOST appropriate to optimize the data loading process?

- A. Set the 'MAX FILE_SIZE parameter to a smaller value to force Snowflake to process files in smaller chunks.
- B. Use the 'VALIDATION_MODE = RETURN ERRORS parameter to identify any issues within the load and address them later.
- C. Utilize 'MATCH BY COLUMN NAME = CASE INSENSITIVE so that the command is robust to case differences.
- D. Specify 'ON_ERROR = CONTINUE in the COPY INTO command to skip any files with errors.
- E. Specify 'FILE FORMAT = (TYPE = CSV COMPRESSION = GZIP)' in the COPY INTO command to instruct Snowflake to automatically decompress the gzip files. Also, split the large warehouse for loading and transforming data.

Answer: E

Explanation:

ERROR = CONTINUE (A) skips errors but doesn't address decompression. 'VALIDATION MODE' (B) is helpful for debugging but doesn't directly optimize the loading process. (C) can ease development but has nothing to do with compression. Specifying = (TYPE = CSV COMPRESSION = GZIP) (D) allows Snowflake to handle gzip decompression automatically. 'MAX FILE_SIZE' (E) can be useful in certain scenarios but is not related to compressed files directly. Splitting the warehouse is not a COPY INTO option, but rather a high-level architecture decision.

NEW QUESTION # 48

When should AUTO_SUSPEND be enabled for a virtual warehouse?

- A. To save credits during periods of inactivity.
- B. To increase the warehouse's performance.
- C. When the warehouse is expected to run continuously.
- D. To ensure the warehouse is always active for immediate queries.

Answer: A

Explanation:

AUTO_SUSPEND minimizes cost by suspending compute after a specified idle period.

It prevents unnecessary credit consumption while ensuring compute resumes automatically when needed.

Performance improvements depend on warehouse size, not suspension settings.

NEW QUESTION # 49

You are responsible for optimizing the data loading process into a Snowflake table 'PRODUCT REVIEWS'. The source data is in JSON format and contains nested structures. You notice that the virtual warehouse is consistently overloaded during the data loading process, and queries against the 'PRODUCT REVIEWS' table are slow after the data load. Which of the following strategies would BEST improve both the data loading performance and subsequent query performance, considering the use of INSERT statements?

- A. Use INSERT with SELECT statements to load the data and utilize the 'LATERAL FLATTEN' function during the insertion process to flatten the nested JSON structure into relational columns. Ensure the virtual warehouse used is appropriately sized and consider clustering the 'PRODUCT_REVIEWS' table based on commonly queried fields after loading.
- B. Increase the size of the virtual warehouse used for data loading. Use INSERT statements to load directly from the staged files using the JSON data.
- C. Create a smaller virtual warehouse specifically for data loading, and a separate, larger warehouse for querying. Use INSERT statements with 'OBJECT_CONSTRUCT' to pre-process the JSON data before insertion.
- D. Use INSERT statements to load the data into a staging table with a VARIANT column. After the load, use CREATE TABLE AS SELECT (CTAS) with 'LATERAL FLATTEN' to transform the data into a structured table. Finally, swap the original table with the newly created structured table. Use smallest virtual warehouse.
- E. Use INSERT with SELECT statements to load the data and utilize the 'LATERAL FLATTEN' function during the insertion process to flatten the nested JSON structure into relational columns. Use 'auto suspend' feature on virtual warehouse to save costs.

Answer: A

Explanation:

Option C provides the most comprehensive solution. 'LATERAL FLATTEN' efficiently transforms the nested JSON data during the insert process, improving query performance by eliminating the need to process JSON at query time. Using an appropriately sized warehouse and clustering the table on commonly queried fields further enhances query performance. Option A only addresses warehouse sizing but does not account for query optimization via flattening. Option B might help with resource allocation, but constructing JSON objects is not efficient. Option D does not use insert statement. Option E, turning on auto suspend will impact performance.

NEW QUESTION # 50

A data engineer needs to grant a group of analysts the ability to query data in the 'SALES DB.PUBLIC.ORDERS' table, but prevent them from seeing any personally identifiable information (PII) in the 'CUSTOMER NAME' column. Furthermore, the analysts should be able to create temporary tables based on the data. Which of the following steps would BEST accomplish this?

- A. Grant the 'SELECT' privilege on the 'SALES DB.PUBLIC.ORDERS' table to a custom role, create a masking policy to redact the 'CUSTOMER NAME' column, and grant the 'APPLY MASKING POLICY' privilege to the custom role. Grant 'CREATE TEMPORARY TABLE' on the database to the custom role.
- B. Grant the 'SELECT' privilege on the 'SALES DB.PUBLIC.ORDERS' table to a custom role. Create a row access policy to filter data based on user roles. Grant 'CREATE TEMPORARY TABLE' on the database to the custom role.
- C. Grant the 'SELECT' privilege on the 'SALES DB.PUBLIC.ORDERS' table to a custom role. Create a secure view that excludes the 'CUSTOMER NAME' column, granting 'SELECT' on the secure view to the role. Grant 'CREATE TABLE' on the database to the custom role.
- D. Grant the 'SELECT' privilege on the 'SALES DB.PUBLIC.ORDERS' table and 'CREATE TEMPORARY TABLE' on the database to the PUBLIC role. Use masking policies on the column.
- E. Grant the 'SELECT' privilege on the 'SALES DB.PUBLIC.ORDERS' table to a custom role, then create a view that excludes the 'CUSTOMER NAME' column, granting 'SELECT' on the view to the role. Grant 'CREATE TEMPORARY TABLE' on the database to the custom role.

Answer: E

Explanation:

Option A is the most secure and efficient. Granting 'SELECT' on the base table and then creating a view ensures the analysts only see the data they are authorized to see. Secure views provide extra security by preventing unauthorized access even through side-channel attacks. Additionally,

'CREATE TEMPORARY TABLE' grants the necessary permission for analysts to create temporary tables for their analysis.

Masking policy requires the APPLY MASKING POLICY privilege which isn't a common practice for analysts, Option B uses PUBLIC role which is bad practice. Option D is incorrect because analysts need to create TEMPORARY tables, not persistent ones.

NEW QUESTION # 51

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