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```
1. sum(ifnull(quantity * (s.price - m.item_price), 0)) as profit
```

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Snowflake SnowPro Advanced: Data Analyst Certification Exam Sample Questions (Q62-Q67):

NEW QUESTION # 62

A data analyst is optimizing query performance for a large reporting dashboard that accesses a Snowflake table 'SALES DATA' with millions of rows. The dashboard includes several complex calculations and aggregations based on 'SALE DATE' and 'PRODUCT ID'. The analyst observes that the dashboard load time is unacceptably slow, even after implementing standard query optimization techniques. Considering Snowflake's caching mechanisms and query profile, which of the following actions would MOST effectively improve the dashboard's performance while minimizing cost?

- A. Implement result caching by ensuring that the underlying queries are deterministic and have not been modified. No action is needed; Snowflake automatically manages result caching.
- B. Partition the 'SALES_DATA' table by 'SALE_DATE' to reduce the amount of data scanned during query execution. This avoids unnecessary scans.
- **C. Create a materialized view that pre-calculates the aggregations needed by the dashboard. Refresh the materialized view periodically (e.g., daily) to maintain data freshness.**
- D. Implement query tags and monitor Snowflake query history using the 'QUERY HISTORY' view to identify resource-intensive queries and optimize them using query rewriting or indexing techniques.
- E. Increase the virtual warehouse size to a larger configuration (e.g., from X-Small to Large) to ensure sufficient compute resources. This directly speeds up individual query execution.

Answer: C

Explanation:

Materialized views offer a significant performance boost by pre-calculating and storing the results of complex aggregations. This reduces the computational load during dashboard refreshes. While increasing virtual warehouse size (A) provides more resources, it's often more cost-effective to optimize queries. Result caching (B) is automatic but depends on query determinism and recent execution. Partitioning (D) is not directly applicable to Snowflake. Query tags and history (E) are helpful for analysis but don't directly speed up dashboard load times.

NEW QUESTION # 63

You are tasked with creating a data model for a global e-commerce company in Snowflake. They have data on customers, products, orders, and website events. They need to support complex analytical queries such as 'What are the top 10 products purchased by customers in the US who have visited the website more than 5 times in the last month?' The data volumes are very large, and query performance is critical. Which of the following data modeling techniques and Snowflake features, used in combination, would be MOST effective?

- A. A wide, denormalized table containing all customer, product, order, and event data, combined with Snowflake's zero-copy cloning for data backups.
- **B. A star schema with fact and dimension tables, combined with materialized views to pre-aggregate data and clustering on dimension keys in the fact table.**
- C. A data vault model, combined with Snowflake's search optimization service on the hub tables.
- D. A fully normalized relational model with primary and foreign key constraints, combined with Snowflake's automatic query optimization.
- **E. A star schema with fact and dimension tables, combined with clustering the fact table on a composite key of customer ID and product ID.**

Answer: B,E

Explanation:

Options B and E are the most effective. A star schema (B and E) is well-suited for analytical workloads. Clustering the fact table on customer and product IDs (B) helps improve query performance when filtering on those dimensions. Materialized views (E) provide pre-aggregated data for common queries, further boosting performance. Normalization (A) can lead to too many joins. Data Vault (C) is complex and may not be necessary. A wide, denormalized table (D) can be difficult to manage and maintain, and zero-copy

cloning is for backup, not performance. Clustering on dimension keys in the fact table works best when coupled with a star schema and the keys are frequently used as a filter.

NEW QUESTION # 64

What potential problem can be identified in the Query profile below?



- A. There is query spilling.
- B. There is inefficient pruning.
- C. The query is not using a foreign Key.
- D. There is an exploding join

Answer: D

Explanation:

The provided image shows a specific section of a Snowflake Query Profile, which is a visual representation of the execution plan and the actual performance of a query. Analyzing this profile is a critical skill for a Data Analyst to identify performance bottlenecks.

1. Identifying the Exploding Join: The most striking evidence in this profile is the relationship between the input and output row counts of the Join [5] operator.

* Input Row Counts: The join receives approximately 95.26k rows from one branch and 150k rows from the other.

* Output Row Count: The join produces a staggering 571.6M rows.

When a join operation produces a significantly larger number of rows than the sum of its inputs, it is known as an exploding join (or a "Cartesian product-like" behavior). This typically occurs when the join condition is not restrictive enough or when there are many-to-many relationships with duplicate keys in both joining tables. In this specific case, joining on `C1.C_NATIONKEY = C2.C_NATIONKEY` has caused the row count to balloon from thousands to over half a billion.

2. Impact on Performance: Exploding joins consume excessive CPU and memory resources to process the massive intermediate result set. This often leads to secondary problems like spilling (Option A), where the data exceeds the virtual warehouse's memory and must be written to disk. However, the profile clearly identifies the join itself as the root cause.

Evaluating the Options:

* Option A is a symptom, but the visual evidence of row expansion directly points to the join logic itself.

* Option C (inefficient pruning) would be identified by a high percentage of partitions scanned in the Table Scan nodes, not by a row count explosion after a join.

* Option D is irrelevant; while foreign keys can help the optimizer, their absence doesn't cause this specific visual profile on its own.

* Option B is the 100% correct answer. The "exploded" arrow indicating 571.6M rows leaving a join fed by significantly smaller inputs is the textbook definition of an exploding join.

NEW QUESTION # 65

You are performing an UPDATE operation on a large table 'CUSTOMER ORDERS' with millions of rows. The update logic involves complex calculations based on data from another table 'PRODUCT PRICES'. To minimize the impact on concurrent queries and ensure data consistency, which of the following strategies should you implement?

- A. Execute the UPDATE statement directly without any special considerations, relying on Snowflake's default concurrency control.
- B. Create a new version of table with updated data and switch to new version.
- C. Create a temporary table with the updated values, drop the original table, and rename the temporary table to the original table name.
- D. Use a MERGE statement to update the 'CUSTOMER ORDERS' table based on the data from the 'PRODUCT PRICES' table.
- E. Break the UPDATE operation into smaller batches using a WHERE clause with a limiting condition based on a primary key or date range and commit changes after each batch.

Answer: D,E

Explanation:

Breaking the UPDATE into smaller batches minimizes lock contention and reduces the duration of the update transaction, thereby reducing the impact on concurrent queries. A MERGE statement is an efficient way to perform updates based on data from another table, optimizing the process compared to a simple UPDATE statement. Option A is not recommended for large tables due to potential lock contention. Option C is disruptive and might cause issues if concurrent queries are running against the table. Option E is not a standard approach.

NEW QUESTION # 66

A key aspect of performing exploratory ad-hoc analyses is:

- A. Relying solely on predefined hypotheses
- **B. Flexibility in querying and data exploration**
- C. Limiting data sources
- D. Following a strict data model

Answer: B

NEW QUESTION # 67

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