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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 (Q186-Q191):

NEW QUESTION # 186

You have a table named 'sales_data' with a column 'product_details' of type VARIANT containing JSON data for various products. The JSON structure is inconsistent; some products have a 'size' attribute as a string, while others have it as an integer, and some don't have the attribute at all. You need to extract the 'size' as a consistent numeric value (NULL if it's missing) for analysis. Which SQL statement using table functions and data type conversion techniques correctly and efficiently handles this data inconsistency?

• A.

```
SELECT product_id, CASE WHEN product_details:~size~ IS NOT NULL THEN TO_NUMBER(product_details:~size~) ELSE NULL END AS normalized_size FROM sales_data;
```

• B.

```
SELECT product_id, NVL(CAST(product_details:~size~ AS NUMBER), NULL) AS normalized_size FROM sales_data;
```

• C.

```
SELECT product_id, CASE WHEN product_details:~size~ IS NOT NULL THEN TO_NUMBER(product_details:~size~) ELSE NULL END AS normalized_size FROM sales_data;
```

• D.

```
SELECT product_id, TRY_TO_NUMBER(product_details:~size~) AS normalized_size FROM sales_data;
```

• E.

```
SELECT product_id, NVL(TRY_TO_NUMBER(product_details:~size~), NULL) AS normalized_size FROM sales_data;
```

Answer: D

Explanation:

TRY_TO_NUMBER() is the most robust and concise way to handle potential data type inconsistencies and missing values when extracting data from VARIANT columns. It attempts to convert the value to a NUMBER and returns NULL if the conversion fails. This elegantly handles both string and integer representations of 'size', as well as cases where 'size' is missing from the JSON. Using Case statements or IS_NUMBER requires more verbose logic and can be less efficient than using the built-in function. NVL replaces NULL with 0, which isn't suitable as the question asks for NULL if missing.

NEW QUESTION # 187

You are responsible for maintaining a dashboard displaying real-time website traffic data'. The data is ingested into a Snowflake table named 'WEB EVENTS' using Snowpipe from cloud storage. The 'WEB EVENTS' table includes 'EVENT TIMESTAMP', 'PAGE URL', and 'USER ID' columns. The dashboard requires near real-time updates, but you are noticing significant latency. Which of the following actions, performed in isolation, is LEAST likely to improve the dashboard update frequency?

- A. Reduce the frequency of micro-batch data loading by increasing the Snowpipe 'AUTO_INGEST' schedule to reduce the number of pipe executions per minute.
- B. Create a materialized view that pre-aggregates the data needed for the dashboard and configure it for automatic refresh.
- C. Increase the size of the Snowflake virtual warehouse used for Snowpipe data loading.
- D. Optimize the Snowpipe configuration by adjusting the 'COPY INTO' statement to use file format options appropriate for the source data (e.g., compression, field delimiters).
- E. Refactor dashboard queries to directly query the 'WEB EVENTS' table without any aggregations or transformations.

Answer: A

Explanation:

Reducing the frequency of micro-batch data loading (option E) is LEAST likely to improve dashboard update frequency; in fact, it will decrease it. The dashboard needs near real-time updates, so reducing how often data is loaded will directly conflict with that requirement. All the other options are designed to help with optimization. Optimizing Snowpipe configuration, creating materialized views for pre-aggregation, and increasing warehouse size for Snowpipe can help, too. Reducing the amount of aggregations that dashboard needs will help since less processing is necessary.

NEW QUESTION # 188

In data presentations for business use analyses, what significance do identifying patterns and trends hold?

- A. Patterns and trends don't impact business use analyses significantly.
- B. Recognizing patterns and trends limits data exploration.
- **C. Identifying patterns and trends aids in insightful analyses.**
- D. It complicates data analysis, hindering decision-making.

Answer: C

Explanation:

Identifying patterns and trends aids in insightful analyses in business use scenarios.

NEW QUESTION # 189

You are tasked with creating a dashboard to visualize customer churn. You have a Snowflake table named 'CUSTOMER DATA' with columns 'CUSTOMER ID', 'JOIN DATE', 'LAST ACTIVE DATE', 'REVENUE', and 'CHURNED' (BOOLEAN). You want to present a cohort analysis showing the retention rate of customers over time, grouped by their join month. Which of the following approaches using SQL and visualization techniques is the MOST effective for creating this cohort analysis visualization for a dashboard using only snowflake?

- A. Export the data to a BI tool to make a visualization.
- B. Create a series of SQL queries, one for each cohort, to calculate the retention rate for each subsequent month. Combine the results from these queries in your dashboard and display them using a line chart.
- C. Create a stored procedure that iterates through each join month, calculates the retention rate for each subsequent month, and stores the results in a temporary table. Then, use a charting library integrated with your dashboard to visualize the data from the temporary table as a heatmap or retention table.
- **D. Use a sequence to generate a series of dates representing the months since joining, then use conditional aggregation to calculate the number of customers retained in each month for each cohort. Visualize this data using a line chart or heatmap.**
- E. Create a single SQL query that calculates the retention rate for each cohort (join month) using window functions to count active customers in each subsequent month. Then, display the results in a bar chart showing the retention rate for each cohort over time.

Answer: D

Explanation:

Option C is the most efficient and scalable. Using a sequence and conditional aggregation allows calculating the retention rate for each cohort in a single SQL query. This avoids the overhead of stored procedures (B) or multiple queries (D). A line chart or heatmap provides an effective visualization of cohort retention over time. Option A can become complex to manage, especially when handling larger datasets. Finally, exporting the data for external visualization defeats the purpose of Snowflake analysis. Sequences and conditionals are preferred as Snowflake doesn't natively support loops like stored procedures for cohort analysis.

NEW QUESTION # 190

You are tasked with enriching a 'SALES DATA' table in Snowflake with geographic information based on IP addresses. You have access to an external function 'GEO LOOKUP(ip_address)' that returns a JSON object containing geographical details (city, region, country) for a given IP address. The 'SALES DATA' table contains 'SALE ID', 'CUSTOMER ID', 'ADDRESS', and 'SALE AMOUNT' columns. You need to enrich the table with city and country information derived from the IP address. Which of the following statements will correctly add 'CITY' and 'COUNTRY' columns to a new table 'ENRICHED SALES DATA' based on the external function 'GEO LOOKUP', correctly handling potential NULL values and ensuring data type consistency?

- ☐ CREATE TABLE ENRICHED_SALES_DATA AS SELECT s. , GEO_LOOKUP(s.IP_ADDRESS):city::VARCHAR AS CITY, GEO_LOOKUP(s.IP_ADDRESS):country::VARCHAR AS COUNTRY FROM SALES_DATA s;
- ☐ CREATE TABLE ENRICHED_SALES_DATA AS SELECT s. , GET_PATH(GEO_LOOKUP(s.IP_ADDRESS), 'city') AS CITY, GET_PATH(GEO_LOOKUP(s.IP_ADDRESS), 'country') AS COUNTRY FROM SALES_DATA s;
- ☐ CREATE TABLE ENRICHED_SALES_DATA AS SELECT s. , TRY_PARSE_JSON(GEO_LOOKUP(s.IP_ADDRESS)):city::VARCHAR AS CITY, TRY_PARSE_JSON(GEO_LOOKUP(s.IP_ADDRESS)):country::VARCHAR AS COUNTRY FROM SALES_DATA s;
- ☐ CREATE TABLE ENRICHED_SALES_DATA AS SELECT s. , NVL(GEO_LOOKUP(s.IP_ADDRESS):city::VARCHAR, 'Unknown') AS CITY, NVL(GEO_LOOKUP(s.IP_ADDRESS):country::VARCHAR, 'Unknown') AS COUNTRY FROM SALES_DATA s;
- ☐ CREATE TABLE ENRICHED_SALES_DATA AS SELECT s. , PARSE_JSON(GEO_LOOKUP(s.IP_ADDRESS)):city::VARCHAR AS CITY, PARSE_JSON(GEO_LOOKUP(s.IP_ADDRESS)):country::VARCHAR AS COUNTRY FROM SALES_DATA s;

- A. Option B

- **B. Option D**
- C. Option A
- D. Option E
- E. Option C

Answer: B

Explanation:

Option D is the most robust solution. It extracts the city and country values from the JSON object returned by the function using the operator. The cast ensures the data is stored as strings. Critically, it uses to handle cases where the 'GEO_LOOKUP' function might return NULL (e.g., for invalid IP addresses), preventing errors and providing a default value ('Unknown'). Option A does not handle NULL, Option B's 'GET_PATH' is not a standard Snowflake function for JSON parsing, Options C parses the GEO LOOKUP output to json format if its not which can result in the 'CITY' and 'COUNTRY' becoming 'NULL'. The option E 'PARSE_JSON' would throw errors on invalid json strings in the ip address.

NEW QUESTION # 191

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