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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q162-Q167):

NEW QUESTION # 162

You're building a data product on the Snowflake Marketplace that includes a view that aggregates data from a table containing Personally Identifiable Information (PII). You need to ensure that consumers of your data product CANNOT directly access the underlying PII data but can only see the aggregated results from the view. What is the MOST secure and recommended approach to achieve this?

- A. Grant USAGE privilege on the database containing the PII table and to the share.
- B. Grant 'READ privilege on the internal stage containing the data files backing the PII table.
- C. Create a stored procedure that returns the aggregated data, and grant EXECUTE privilege on the stored procedure to the share. The stored procedure SELECTs from the PII table.
- D. Grant the 'SELECT privilege directly on the underlying PII table to the share used for the Marketplace listing, along with the 'SELECT privilege on 'sensitive data view'.
- E. Grant the 'SELECT privilege only on the to the share used for the Marketplace listing. Do not grant any privileges on the

underlying PII table.

Answer: E

Explanation:

Granting only 'SELECT' privilege on the (option B) ensures that consumers can only access the view and not the underlying PII data. Granting 'SELECT' on the underlying table (option A) defeats the purpose of the view. Using a stored procedure (option C), while potentially masking the data access, is less performant and can still expose data if not carefully implemented. 'USAGE' privilege (option D) only allows access to the database, not the data itself. 'READ' on the stage (option E) allows direct access to the raw data, which exposes the PII.

NEW QUESTION # 163

You have a Snowflake table 'orders_raw' with a VARIANT column named 'order_details' that contains an array of order items represented as JSON objects. Each object has 'item_id', 'quantity', and 'price'. You need to calculate the total revenue for each order. Which SQL statement efficiently flattens the array and calculates the total revenue using LATERAL FLATTEN and appropriate casting?

A. `SELECT order_id, SUM(value:quantity value:price) AS total_revenue FROM orders_raw, LATERAL FLATTEN(input => order_details) GROUP BY order_id;`

B. `SELECT order_id, SUM(f.value:quantity::NUMBER f.value:price::NUMBER) AS total_revenue FROM orders_raw JOIN LATERAL FLATTEN(input => order_details) ON 1=1 GROUP BY order_id;`

C. `SELECT order_id, SUM(order_details[0].quantity order_details[0].price) AS total_revenue FROM orders_raw GROUP BY order_id;`

D. `SELECT order_id, SUM(TO_NUMBER(GET_PATH(order_details, 'quantity')) TO_NUMBER(GET_PATH(order_details, 'price'))) AS total_revenue FROM orders_raw GROUP BY order_id;`

E. `SELECT order_id, SUM(f.value:quantity::FLOAT f.value:price::FLOAT) AS total_revenue FROM orders_raw, LATERAL FLATTEN(input => order_details) f GROUP BY order_id;`

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

Answer: B

Explanation:

Option E is the most efficient and correct. It uses 'LATERAL FLATTEN' to unnest the 'order_details' array. It then casts both the 'quantity' and 'price' fields to FLOAT, ensuring accurate calculations for total revenue. A, B and D are incorrect due to incorrect join syntax or function usage with lateral flatten, or improper datatypes. C doesn't properly flatten the array so it only accesses the first element.

NEW QUESTION # 164

You are tasked with loading Parquet files into Snowflake from an AWS S3 bucket. The Parquet files are compressed using Snappy compression and contain a complex nested schema. Some of the columns contain timestamps with nanosecond precision. You want to create a Snowflake table that preserves the timestamp precision. Which COPY INTO statement options and table definition are MOST appropriate?

- A. Table Definition: `CREATE TABLE my_table (ts TIMESTAMP NTZ(9), other_col VARCHAR); COPY INTO my_table FROM FILE FORMAT = (TYPE = PARQUET COMPRESSION = AUTO) ON_ERROR = 'SKIP_FILE';`
- B. Table Definition: `CREATE TABLE my_table (ts TIMESTAMP NTZ(9), other_col VARCHAR); COPY INTO my_table FROM FILE FORMAT = (TYPE = PARQUET COMPRESSION = SNAPPY) ON_ERROR = 'SKIP_FILE';`
- C. Table Definition: `CREATE TABLE my_table (ts TIMESTAMP NTZ(9), other_col VARCHAR); COPY INTO my_table FROM FILE FORMAT = (TYPE = PARQUET COMPRESSION = SNAPPY) ON_ERROR = 'SKIP_FILE' VALIDATION_MODE = RETURN_ERRORS;`
- D. Table Definition: `CREATE TABLE my_table (ts VARCHAR, other_col VARCHAR); COPY INTO my_table FROM FILE FORMAT = (TYPE = PARQUET COMPRESSION = SNAPPY) ON_ERROR = 'SKIP_FILE' = PARSE TIMESTAMP(ts);`
- E. Table Definition: `CREATE TABLE my_table (ts TIMESTAMP NTZ, other_col VARCHAR); COPY INTO my_table FROM FILE FORMAT = (TYPE = PARQUET COMPRESSION = SNAPPY) ON_ERROR = 'SKIP_FILE';`

Answer: A

Explanation:

The correct approach is to define the timestamp column with TIMESTAMP NTZ(9) to preserve nanosecond precision. Also, setting COMPRESSION = AUTO is a good practice to let Snowflake automatically detect and handle the compression type, even though Snappy is explicitly mentioned. Option A is close, but AUTO compression is preferred for robustness. B would lose precision as timestamp_ntz defaults to (0), C converts TIMESTAMP to VARCHAR which causes issues with ordering. E will throw errors but does not solve the problem.

NEW QUESTION # 165

You are designing a data sharing solution where the consumer account needs real-time access to a secure view that aggregates data from several tables in your provider account. The consumer should not be able to see the underlying tables. Which of the following approaches offers the MOST secure and efficient way to implement this data sharing while minimizing the risk of data leakage and performance impact on your provider account?

- A. Create a UDF that encapsulates the data aggregation logic and share the UDF's result using a data share, calling the UDF on demand.
- B. Create a standard view that joins the tables and share the view using a data share. Implement row-level security policies on the underlying tables.
- C. Create a materialized view on top of the tables, refresh it periodically, and share the materialized view.
- D. **Create a secure view that joins the tables and share only the secure view using a data share.**
- E. Create a shared database and grant SELECT privilege on the underlying tables directly to the consumer's role.

Answer: D

Explanation:

Secure views are specifically designed for data sharing while protecting the underlying data sources. Sharing the secure view ensures that the consumer only sees the aggregated data and cannot access the underlying tables directly. Options A and D expose the underlying tables, increasing the risk of data leakage. Option C introduces latency due to the materialized view refresh. Option E adds unnecessary complexity and potential performance overhead.

NEW QUESTION # 166

You are developing a JavaScript UDF in Snowflake to perform complex data validation on incoming data'. The UDF needs to validate multiple fields against different criteria, including checking for null values, data type validation, and range checks.

Furthermore, you need to return a JSON object containing the validation results for each field, indicating whether each field is valid or not and providing an error message if invalid. Which approach is the MOST efficient and maintainable way to structure your JavaScript UDF to achieve this?

- A. **Define a JavaScript object containing validation rules and corresponding validation functions. Iterate through the object and apply the rules to the input data, collecting the validation results in a JSON object. This object is returned as a string.**
- B. Use a single, monolithic JavaScript function with nested if-else statements to handle all validation logic. Return a JSON string containing the validation results.
- C. Utilize a JavaScript library like Lodash or Underscore.js within the UDF to perform data manipulation and validation. Return a JSON string containing the validation results.
- D. Directly embed SQL queries within the JavaScript UDF to perform data validation checks using Snowflake's built-in functions. Return a JSON string containing the validation results.
- E. Create separate JavaScript functions for each validation check (e.g., 'isNull', 'isValidType', 'isWithinRange'). Call these functions from the main UDF and aggregate the results into a JSON object.

Answer: A

Explanation:

Option D provides the most maintainable and efficient approach. By defining validation rules and corresponding functions in a JavaScript object, you can easily add, modify, or remove validation rules without affecting the core logic of the UDF. This approach promotes code reusability and makes the UDF easier to understand and maintain. Options A leads to unmaintainable code. Options B can be better than A but is still less elegant than D. Option C, while potentially useful for certain tasks, adds unnecessary overhead. Option E is generally discouraged due to performance limitations and the complexity of embedding SQL within JavaScript.

NEW QUESTION # 167

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