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Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q42-Q47):

NEW QUESTION # 42

Which of the following components are included in a fully qualified name in Snowflake? (Choose any 3 options)

- A. Schema name

- B. Database name
- C. Table or view name
- D. Role name

Answer: A,B,C

Explanation:

A fully qualified name in Snowflake specifies the exact location of an object and follows this structure:

<database_name>.<schema_name>.<object_name>

This enables precise referencing, especially in environments with multiple databases or schemas.

Components:

- * Database name- the top-level container.
- * Schema name- the logical grouping of related objects.
- * Table or view name- the specific object being referenced.

Example:

SALES_DB.PUBLIC.ORDERS

Roles are not part of object names. Roles control authorization, while fully qualified names handle namespace resolution. Using fully qualified names helps avoid ambiguity in pipelines, stored procedures, views, and cross-database queries.

Snowflake also supports partially qualified names depending on active context (current database and schema).

NEW QUESTION # 43

When querying semi-structured data in Snowflake, which function extracts a specific field from a JSON document?

- A. PARSE_JSON()
- B. GET_PATH()
- C. EXTRACT_JSON()
- D. SELECT_FIELD()

Answer: A

NEW QUESTION # 44

You are tasked with loading JSON data containing customer information into Snowflake. The JSON structure is complex and varies across records. You want to optimize query performance on a frequently accessed nested field 'address.city'. Which of the following strategies would BEST improve query performance?

- A. Load the JSON data directly into a VARIANT column without any transformation.
- B. Create a separate table with a VARCHAR column for 'address.city' and use a view to join it with the original table containing the VARIANT data.
- C. Flatten the JSON data during loading using a query that extracts 'address.city' into a separate column in the target table, and then create a standard index on that column.
- D. Use the LATERAL FLATTEN function to create a separate row for each field in the JSON, including 'address.city', and then create a view to pivot the data back into the desired structure.
- E. Create a virtual column on the VARIANT column that extracts 'address.city' and index the virtual column.

Answer: C

Explanation:

Flattening the JSON data during loading and creating a standard index on the 'address.city' column provides the best query performance because Snowflake can directly use the index to filter and retrieve data without having to parse the JSON structure at query time. Virtual columns can provide some performance improvement, but they are not as efficient as standard indexes.

Creating a separate table or using LATERAL FLATTEN and pivoting adds unnecessary complexity and overhead.

NEW QUESTION # 45

You are loading data from a set of compressed (gzip) JSON files in an external stage named

'json_stage'. The target table is named raw_event', and it has a single VARIANT column named

'event_data'. You want to load the data using a virtual warehouse named 'LOAD_WH'. You also need to ensure only new files

added to the stage since the last load are processed and any pre-existing data is not reloaded. What combination of parameters and

setup do you need to use to successfully accomplish this?

- A. Use the 'COPY INTO' command with the FILES = ('json_stage/' option, a warehouse clause, enable the parameter on the stage to incrementally load new files.
- B. Use the 'COPY INTO' command with a warehouse clause, specifying the file format to handle gzip compression, and enable the 'AUTO_REFRESH' parameter to 'TRUE' on the stage, and rely on filename to determine which files have been loaded.
- C. Use the 'COPY INTO' command with a warehouse clause, specifying the file format to handle gzip compression, and then call the same 'COPY INTO' statement using a scheduled task.
- **D. Use the 'COPY INTO' command with a warehouse clause, enable snowpipe auto-ingest using event notifications and a Snowflake-managed queue, and rely on the metadata history to prevent reprocessing.**
- E. Use the 'COPY INTO' command with the NATCH_BY COLUMN_NAME option set to 'CASE_INSENSITIVE', a warehouse clause, create a pipe using auto-ingest with event notifications, and set the 'AUTO_REFRESH' parameter to 'TRUE' on the stage.

Answer: D

Explanation:

Option C is the most appropriate because it leverages Snowpipe's auto-ingest feature using event notifications. Snowpipe automatically tracks which files have already been loaded, preventing reprocessing. Using a virtual warehouse in the 'COPY INTO' statement ensures that the data is loaded with the specified compute resources.

NEW QUESTION # 46

Which of the following statements are true regarding considerations when working with VARIANT data types in Snowflake? (Select all that apply)

- **A. VARIANT columns can store data with different schema within the same column.**
- B. Data stored in VARIANT columns always consumes less storage space than the equivalent data stored in strongly-typed columns.
- C. Snowflake automatically indexes VARIANT columns, eliminating the need for manual index creation.
- **D. Queries on VARIANT columns can be slower than queries on strongly-typed columns because Snowflake needs to infer the data type at runtime.**
- **E. You can use the operator to cast data extracted from a VARIANT column to a specific data type.**

Answer: A,D,E

Explanation:

Option A is correct: Querying VARIANT columns involves runtime type inference, leading to potential performance overhead. Option C is correct: VARIANT columns are designed to store data with flexible schema. Option D is correct: The operator is used for type casting when extracting data from VARIANT columns. Option B is incorrect: Snowflake does not automatically index VARIANT columns. Option E is incorrect: VARIANT columns can sometimes consume more storage space due to the metadata required to describe the data structure.

NEW QUESTION # 47

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