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Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q81-Q86):

NEW QUESTION # 81

A data engineer needs to create a table named 'EMPLOYEES' in the 'PUBLIC' schema of the database 'COMPANY DATA'. The table should store employee IDs as integers, names as strings, and hire dates as dates. Which of the following SQL statements correctly creates this table?

- A. CREATE OR REPLACE TABLE EMPLOYEES (EmployeeID NUMBER, Name VARCHAR, HireDate DATE);
- B. CREATE OR REPLACE TABLE COMPANY_DATA.PUBLIC.EMPLOYEES (EmployeeID INT, Name VARCHAR(255), HireDate DATE);
- C. CREATE TABLE EMPLOYEES (EmployeeID INTEGER, Name VARCHAR(255), HireDate DATETIME);
- D. CREATE OR REPLACE TABLE COMPANY_DATA.PUBLIC.EMPLOYEES (EmployeeID NUMBER, Name VARCHAR(255), HireDate DATE);
- E. CREATE TABLE COMPANY_DATA.PUBLIC.EMPLOYEES (EmployeeID INT, Name STRING, HireDate DATE);

Answer: B

Explanation:

The correct answer is E. It uses 'CREATE OR REPLACE' to avoid errors if the table exists, specifies the full table name with database and schema ('COMPANY_DATA.PUBLIC.EMPLOYEES'), and uses appropriate data types: 'INT' for integers, 'VARCHAR(255)' for strings, and 'DATE' for dates. Option A would cause errors if table already exists, Option B and C does not specify the database and schema. Option D uses NUMBER datatype.

NEW QUESTION # 82

Consider a scenario where you are loading data from an external stage (AWS S3) into a Snowflake table. The data contains date fields in various formats. You want to ensure that all dates are consistently loaded into Snowflake using the 'YYYY-MM-DD' format. Which of the following COPY INTO options can you use to achieve this?

- A. CONVERT TIMEZONE = FALSE
- B. DATE INPUT FORMAT = 'AUTO', DATE OUTPUT FORMAT = 'YYYY-MM-DD'
- C. TIMESTAMP FORMAT = 'YYYY-MM-DD'
- D. DATE FORMAT = 'YYYY-MM-DD'
- E. ON ERROR = 'SKIP FILE'

Answer: B

Explanation:

The 'DATE INPUT FORMAT' option specifies the format of the dates in the source data, and setting it to 'AUTO' allows Snowflake to automatically detect the format. The option specifies the desired format for dates loaded into the table. 'DATE_FORMAT' and 'TIMESTAMP_FORMAT' are not valid COPY INTO options. 'CONVERT_TIMEZONE' is related to time zone conversions, and 'ON ERROR' handles errors during loading, but neither of them directly address date format conversion.

NEW QUESTION # 83

What are Snowflake notebooks primarily used for?

- A. User authentication
- B. Managing cloud storage
- C. Storing raw data
- D. Writing and executing SQL queries, Python commands, building visualizations, and documenting analysis

Answer: D

Explanation:

Snowflake Notebooks provide an interactive environment where developers and analysts can combine SQL, Python, visualization libraries, and documentation. Use cases include exploratory analysis, ETL prototyping, data engineering workflows, machine learning model development, and dashboard creation using Streamlit components.

Notebooks allow mixing of SQL and Python cells with shared session state, enabling smooth transitions between Snowpark DataFrames, SQL queries, visual charts, and markdown explanations. They enhance reproducibility and collaboration, supporting versioning, parameterization, and seamless Snowflake compute integration.

Incorrect options:

- * Raw data is stored in Snowflake tables, not in notebooks.
- * User authentication is handled by the Cloud Services Layer.
- * Managing cloud storage is automatic and not a notebook responsibility.

Thus, Snowflake notebooks are an end-to-end development and analytics interface.

NEW QUESTION # 84

A data engineer needs to create a table in Snowflake to store JSON data from an external API.

The API returns a nested JSON structure that is frequently updated with new fields. Which data type is MOST suitable for storing this JSON data, and what are the key considerations for querying it efficiently?

- A. OBJECT. Suitable if the JSON structure is strictly defined and known in advance, allowing for optimized schema and query performance.
- B. VARCHAR with a size large enough to accommodate the largest expected JSON document. Query efficiency depends on using LIKE and SUBSTRING functions.
- C. ARRAY. Best suited if the primary structure is an array of similar JSON objects, allowing for easy iteration and filtering.
- D. BINARY. Suitable for storing raw JSON bytes. Requires custom conversion functions for querying, resulting in poor performance.
- E. VARIANT. Query efficiency is achieved using dot notation and FLATTEN table function, but storage size might be larger than VARCHAR.

Answer: E

Explanation:

VARIANT is the most suitable data type for storing semi-structured data like JSON in Snowflake.

It automatically infers the schema and allows for flexible storage of evolving JSON structures. Dot notation and the FLATTEN table function enable efficient querying of nested fields. While storage might be larger than VARCHAR due to internal metadata, the ease of use and query performance benefits outweigh this cost in many scenarios. Other options are less suitable because VARCHAR requires string manipulation, OBJECT needs a predefined schema, ARRAY requires an array structure, and BINARY needs custom conversion.

NEW QUESTION # 85

What is the primary responsibility of Role Hierarchy in Snowflake's access control model?

- A. To categorize different types of users
- B. To allow roles to inherit privileges from parent roles
- C. To specify the size of virtual warehouses
- D. To define the order of SQL command execution

Answer: B

Explanation:

Role hierarchy enables a parent role to inherit privileges assigned to child roles. This simplifies RBAC administration, reduces redundant grants, and ensures scalable security management. It has no relation to SQL sequencing, user categorization, or compute sizing.

NEW QUESTION # 86

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