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Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q171-Q176):

NEW QUESTION # 171

You are working with a Snowflake external stage that contains a mix of structured and unstructured data. Specifically, you have a directory in your S3 bucket that contains both CSV files and JSON files. You have enabled directory tables for this stage. You want to create a view that combines data from both the CSV and JSON files. How can you effectively achieve this using the directory table, considering that the CSV and JSON files have different schemas?

- A. It's not possible to combine data from different file formats (CSV and JSON) directly using directory tables. You need to load the data into separate internal Snowflake tables first.
- B. Create a single view that uses the 'METADATA\$FILENAME' column in the directory table to dynamically parse the data based on the file extension (CSV or JSON) using conditional functions within the view definition.
- C. Create a single external table that automatically detects the file format and schema based on the file extension and loads the data accordingly. Directory tables will then work automatically with this table.
- D. Create a stored procedure that reads the directory table metadata, determines the file type for each file, and then dynamically creates and executes SQL statements to load the data into a single table.
- E. Create two separate views, one for the CSV files and one for the JSON files, using the 'METADATA\$FILENAME' column in the directory table to filter the files for each view. Then, create a UNION ALL view on top of those views.

Answer: E

Explanation:

The most effective approach is to create separate views for each file format (CSV and JSON) and then combine them using a UNION ALL' view. This allows you to handle the different schemas of the CSV and JSON files separately and then present a unified view of the data. Options B and E are more complex and less maintainable. Option C is incorrect because external tables do not automatically detect file formats with mixed data types and schemas. Option D is also incorrect as the directory table can be queried directly with appropriate views.

NEW QUESTION # 172

What are the steps to create a new schema in Snowsight?

- A. Data >> Add Data >> Create Schema
- B. Data >> Create Schema
- C. Data >> Database >> Create Schema
- D. Data Product >> Create Schema

Answer: C

Explanation:

To create a new schema in Snowsight, users must follow the hierarchical navigation of Snowflake's object structure. The correct sequence is:

Data # Database # Create Schema

Steps:

- * Open the Datatab in the left navigation.
- * Select a Database where the schema will be created.
- * Choose Create # Schema.
- * Enter the schema name and (optionally) description.
- * Click Create.

Incorrect options:

- * "Add Data" is used for loading files, not creating schema objects.
- * "Data # Create Schema" is incomplete because Snowflake must know which database the schema belongs to.
- * "Data Product" is unrelated to object creation.

Thus, Snowflake requires explicit database context before schema creation.

NEW QUESTION # 173

You are tasked with loading data from a series of CSV files stored in an Amazon S3 bucket into Snowflake. The CSV files contain a header row, but some files have slight variations in the number and order of columns. You want to ensure that all relevant data is loaded correctly, even if the column order differs, and that any extra columns are ignored. Which of the following approaches is the MOST appropriate and efficient?

- A. Pre-process the CSV files to standardize the column order and names before loading them into Snowflake.

- B. Create a separate external table for each CSV file with a different column structure.
- C. Create a VIEW on top of the external table to ensure that column names are consistent across all files. Then load the data into view.
- **D. Create a single target table with all possible columns from all CSV files, using 'SKIP_HEADER = 1' and explicitly map the columns in the 'COPY INTO' statement to the correct columns in the target table, using the 'FILE FORMAT' option to specify the correct field delimiter.**
- E. Define a single external table with a VARIANT column and use Snowflake's CSV parsing capabilities to load all files into that column. Then, extract the relevant data using JSON path expressions.

Answer: D

Explanation:

Creating a single target table with all possible columns and explicitly mapping the columns in the 'COPY INTO' statement is the most appropriate. This approach handles variations in column order by explicitly mapping columns from the CSV files to the target table. It is more performant than VARIANT, and doesn't require external preprocessing. Option A is not scalable and difficult to maintain. Option B is suitable for schema evolution but is not recommended if schemas are already known. Option D loading data into view, is not direct approach, and requires external table and COPY command need a table not view to load. Option E pre-processing helps if data consistency is high priority, but adds complexity to workflow and is not part of Snowflake functionalities.

NEW QUESTION # 174

A Snowflake virtual warehouse named 'TRANSFORM WH' is configured with the following parameters: 'WAREHOUSE SIZE = XSMALL', 'AUTO SUSPEND =', and 'AUTO RESUME = TRUE'. During peak hours, this warehouse processes a large volume of data transformations. However, users report frequent delays as the warehouse repeatedly suspends and resumes. Which of the following changes would BEST address these performance delays while optimizing cost?

- A. Decrease the 'AUTO_SUSPEND' parameter to a smaller value (e.g., 60 seconds) to force more frequent warehouse suspensions and conserve credits.
- B. Increase the to MEDIUM. A larger warehouse has more compute power and will finish tasks faster.
- C. Increase the 'AUTO_SUSPEND' parameter to a larger value (e.g., 3600 seconds) to prevent frequent suspensions.
- **D. Enable Multi-Cluster Warehouse with 'MIN CLUSTER COUNT = 1' and 'MAX CLUSTER COUNT = 2'. This will allow Snowflake to automatically scale out the warehouse when needed.**
- E. Set 'AUTO SUSPEND = NULLS'. This will prevent the warehouse from ever suspending, ensuring it's always available.

Answer: D

Explanation:

Increasing (A) merely delays the problem; it doesn't solve the underlying issue of insufficient compute during peak times. Increasing 'WAREHOUSE SIZE' (B) is a viable option, but Multi-Cluster warehouses (C) provide a more dynamic scaling solution. Setting 'AUTO_SUSPEND = NULL' (D) is wasteful and incurs unnecessary costs, as the warehouse will always be running, even when idle. Decreasing 'AUTO SUSPEND' (E) exacerbates the problem. Multi-Cluster warehouses with a reasonable range allow Snowflake to automatically scale resources based on demand, providing better performance during peak hours and cost optimization during idle periods.

NEW QUESTION # 175

A data engineer needs to create a new database named 'SALES DATA' for storing sales transactions. They want to ensure that only users with the 'DB_ADMIN' role can manage the database. After creating the database, the engineer needs to grant the 'SELECT' privilege on all tables within the 'SALES DATA.PUBLIC' schema to a role named 'ANALYST'. Which of the following is the MOST secure and efficient sequence of SQL commands to accomplish this?

- **A. CREATE DATABASE SALES DATA; GRANT OWNERSHIP ON DATABASE SALES DATA TO ROLE DB ADMIN; GRANT SELECT ON FUTURE TABLES IN SCHEMA SALES DATA.PUBLIC TO ROLE ANALYST;**
- B. CREATE DATABASE SALES DATA; USE DATABASE SALES DATA; GRANT OWNERSHIP ON DATABASE SALES DATA TO ROLE DB ADMIN; GRANT SELECT ON FUTURE TABLES IN SCHEMA PUBLIC TO ROLE ANALYST;
- C. CREATE DATABASE SALES DATA; GRANT OWNERSHIP ON DATABASE SALES DATA TO ROLE DB ADMIN; GRANT SELECT ON SCHEMA SALES DATA.PUBLIC TO ROLE ANALYST, GRANT SELECT ON ALL TABLES IN SCHEMA SALES DATA.PUBLIC TO ROLE ANALYST;
- D. CREATE DATABASE SALES DATA; GRANT OWNERSHIP ON DATABASE SALES DATA TO ROLE DB

ADMIN; USE DATABASE SALES DATA; GRANT SELECT ON ALL TABLES IN SCHEMA PUBLIC TO ROLE ANALYST;

- E. CREATE DATABASE SALES DATA; GRANT OWNERSHIP ON DATABASE SALES DATA TO ROLE DB ADMIN; GRANT SELECT ON ALL TABLES IN SCHEMA SALES DATA.PUBLIC TO ROLE ANALYST;

Answer: A

Explanation:

Option B is the most secure and efficient. Granting OWNERSHIP on the database ensures DB_ADMIN can manage it. Using 'GRANT SELECT ON FUTURE TABLES' ensures that any new tables created in the 'PUBLIC' schema will automatically have the 'SELECT' privilege granted to the ANALYST role. This eliminates the need to manually grant privileges each time a new table is created. Option A only grants access to existing tables. Options C and E are inefficient because they attempt to grant access to the schema itself, which is not the correct approach for controlling access to the tables within it. Option D requires using the database explicitly. Option A and E does not have future grants

NEW QUESTION # 176

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