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Snowflake SOL-C01 SnowPro Associate - Platform Certification

Questions & Answers PDF
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Snowflake SOL-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Data Loading and Virtual Warehouses: This domain covers loading structured, semi-structured, and unstructured data using stages and various methods, virtual warehouse configurations and scaling strategies, and Snowflake Cortex LLM functions for AI-powered operations.
Topic 2	<ul style="list-style-type: none">• Identity and Data Access Management: This domain focuses on Role-Based Access Control (RBAC) including role hierarchies and privileges, along with basic database administration tasks like creating objects, transferring ownership, and executing fundamental SQL commands.
Topic 3	<ul style="list-style-type: none">• Data Protection and Data Sharing: This domain addresses continuous data protection through Time Travel and cloning, plus data collaboration capabilities via Snowflake Marketplace and private Data Exchange sharing.

Topic 4

- Interacting with Snowflake and the Architecture: This domain covers Snowflake's elastic architecture, key user interfaces like Snowsight and Notebooks, and the object hierarchy including databases, schemas, tables, and views with practical navigation and code execution skills.

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Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q51-Q56):

NEW QUESTION # 51

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. 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.
- B. Create a separate external table for each CSV file with a different column structure.
- C. 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.
- D. Pre-process the CSV files to standardize the column order and names before loading them into Snowflake.
- E. 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.

Answer: A

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 # 52

When a virtual warehouse is scaled up (e.g., from X-Small to Small), what is the primary impact?

- A. It can process larger and more complex queries faster.
- B. It gains more storage capacity.
- C. It allows more concurrent users to connect.
- D. It reduces the cost of running queries.

Answer: A

Explanation:

Scaling up a warehouse increases compute resources (CPU, memory), improving performance on heavy workloads: large joins, transformations, and long-running analytical queries.

It does not increase storage, reduce cost, or guarantee higher concurrency (multi-cluster handles concurrency).

NEW QUESTION # 53

A data scientist wants to use a library, 'special_function', within a Snowflake Notebook, but that library is not pre-installed in the Snowflake environment. The data scientist does not have ACCOUNTADMIN privileges. Which of the following methods could be used to make the 'special_function' library available for use within the notebook?

- A. Request an ACCOUNTADMIN to create a Snowflake Anaconda channel using 'CREATE ANACONDA INTEGRATION' and upload the library to that channel.
- B. Create a local virtual environment within the Snowflake Notebook's file system, install the library into the virtual environment, and then activate the virtual environment before using the library.
- C. Use '!pip install special_function' in a notebook cell. This will install the library globally for all users on the Snowflake account.
- **D. Create a zip file containing 'special_function' and its dependencies, upload it to an internal stage, and then use in the notebook to make the package available to the Snowflake session.**
- E. Upload the library file ('special_function.py' or similar) to a Snowflake stage, and then import the library within the notebook using a relative path to the stage file location.

Answer: D

Explanation:

The correct approach is to package the library and upload it to a stage, then use This allows users without ACCOUNTADMIN to use custom libraries. install (A) requires specific permissions that the user lacks, and installs globally, which is undesirable. Creating an Anaconda integration (B) also requires ACCOUNTADMIN. Virtual environments (C) are not the typical way Snowflake handles external dependencies in notebooks and there are limitation regarding the location.

Uploading directly and importing via relative path (D) can create import errors and may not work with all library types.

Packages from a stage should be made available through

NEW QUESTION # 54

You are tasked with loading data into a Snowflake table 'SALES DATA' that contains columns 'SALE ID (NUMBER)', 'PRODUCT ID (NUMBER)', 'SALE DATE (DATE)', and 'SALE AMOUNT (NUMBER)'. You have a CSV file with the same fields. However, some rows in the CSV file contain invalid date formats (e.g., '2024/01/01' instead of 'YYYY-MM-DD'). You want to handle these errors during the data loading process without aborting the entire load operation. Which of the following options BEST describes how to achieve this using the 'INSERT' command with data from a stage?

- A. Use before the insert statement to identify invalid rows, then filter those rows out using a WHERE clause in the INSERT statement.
- B. Create an error table and specify 'ON_ERROR = 'CONTINUE'' file format option, then use 'TO_DATE' function with a custom date format and then load data. Once loading is done, query error table to find the bad records.
- C. Create a file format with 'ON_ERROR = 'SKIP_FILE'', and Snowflake will automatically skip the file if it encounters an error. Then insert into target table.
- D. Use the function with a custom date format. If TO_DATE fails, it will throw an error and abort the insert operation but this is undesirable. There isn't a way to tell TO DATE to skip errors.
- **E. Use in the INSERT statement. Rows with invalid date formats will result in NULL values for the 'SALE_DATE' column, and the insert operation will continue. Then filter out rows where SALE DATE is NULL using a WHERE clause.**

Answer: E

Explanation:

Using allows Snowflake to attempt to convert the date, and if it fails, it returns NULL. This allows the INSERT statement to complete without errors. The data can then be filtered using a WHERE clause to exclude these invalid dates. Option A involves a separate validation step, which adds complexity and doesn't directly handle the error during the INSERT operation. Option B skips the entire file, which is not desirable as only some rows are bad. Option D aborts the whole operation which we want to avoid. Option E works, but it doesn't use INSERT statement.

NEW QUESTION # 55

Role 'DATA ENGINEER' owns the external stage. The security team mandates that ownership be transferred to ADMIN'. Post-transfer, which privileges are automatically revoked or changed for the 'DATA ENGINEER' role?

The 'DATA_ENGINEER' role loses all privileges on 'my_s3_stage'.
The 'DATA_ENGINEER' role retains the USAGE privilege on 'my_s3_stage', but loses the OWNERSHIP privilege.
The 'DATA_ENGINEER' role retains all previously granted privileges on 'my_s3_stage', but can no longer grant those privileges to other roles.
The 'DATA_ENGINEER' role retains the OWNERSHIP privilege on 'my_s3_stage' but loses the ability to modify the stage definition.
The DATA_ENGINEER role loses the OWNERSHIP privilege. Other privileges depend on existing grants.

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

Answer: C

Explanation:

When ownership is transferred, the previous owner (in this case, the 'DATA ENGINEER' role) loses the 'OWNERSHIP' privilege. Any other privileges previously granted to the role remain unless explicitly revoked. The ownership transfer itself does not automatically revoke other privileges. The ownership is implicitly revoked. But all other grants (USAGE etc) will remain.

NEW QUESTION # 56

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