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Snowflake SOL-C01 SnowPro Associate - Platform Certification

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Snowflake Certified SnowPro Associate - Platform Certification Sample

Questions (Q89-Q94):

NEW QUESTION # 89

A data engineer is using Snowflake Notebooks to perform a series of transformations on a large dataset. After executing a cell containing a complex SQL query that includes user-defined functions (UDFs), the cell's execution status remains 'Running' for an unexpectedly long time.

What are the MOST likely reasons for this prolonged execution time?

- A. The Snowflake Notebook session has timed out due to inactivity.
- B. The UDFs within the query are inefficient and causing performance bottlenecks.
- C. The cell is waiting for a lock on a table or object that is currently being modified by another process.
- D. The Snowflake warehouse is under-provisioned for the size and complexity of the query.
- E. The data being processed is heavily skewed, leading to uneven workload distribution across nodes.

Answer: B,C,D,E

Explanation:

Prolonged execution times can be attributed to several factors. Inefficient UDFs (A) directly impact performance. Under-provisioned warehouses (B) lack the resources to execute the query efficiently. Data skew (C) can cause some nodes to work harder than others. Lock contention (E) will cause the cell to wait. Session timeout (D) would result in an error, not a 'Running' status.

NEW QUESTION # 90

A Snowflake table 'ORDERS' contains order data, including a 'ORDER DATE' column of type DATE. You want to load data from a CSV file into this table. The CSV file contains the order date in various formats, such as 'YYYY-MM-DD', 'MM/DD/YYYY', and 'DD.MM.YYYY'. You need to load the data into the 'ORDERS' table while consistently converting all date formats into the 'YYYY-MM-DD' format. Which COPY INTO statement snippet is most appropriate for handling the date format variations?

- A.

```
COPY INTO ORDERS(ORDER_DATE) FROM @mystage/orders.csv FILE_FORMAT = (TYPE = CSV, DATE_FORMAT = 'YYYY-MM-DD');
```

- B.

```
COPY INTO ORDERS(ORDER_DATE) FROM @mystage/orders.csv FILE_FORMAT = (TYPE = CSV) TRANSFORM AS SELECT CASE WHEN TRY_TO_DATE($1, 'YYYY-MM-DD') IS NOT NULL THEN TRY_TO_DATE($1, 'YYYY-MM-DD') WHEN TRY_TO_DATE($1, 'MM/DD/YYYY') IS NOT NULL THEN TRY_TO_DATE($1, 'MM/DD/YYYY') ELSE TRY_TO_DATE($1, 'DD.MM.YYYY') END FROM $1;
```

- C.

```
COPY INTO ORDERS(ORDER_DATE) FROM @mystage/orders.csv FILE_FORMAT = (TYPE = CSV) TRANSFORM AS SELECT CASE WHEN TRY_TO_DATE($1, 'YYYY-MM-DD') IS NOT NULL THEN TO_VARCHAR(TRY_TO_DATE($1, 'YYYY-MM-DD'), 'YYYY-MM-DD') WHEN TRY_TO_DATE($1, 'MM/DD/YYYY') IS NOT NULL THEN TO_VARCHAR(TRY_TO_DATE($1, 'MM/DD/YYYY'), 'YYYY-MM-DD') WHEN TRY_TO_DATE($1, 'DD.MM.YYYY') IS NOT NULL THEN TO_VARCHAR(TRY_TO_DATE($1, 'DD.MM.YYYY'), 'YYYY-MM-DD') ELSE NULL END FROM @mystage/orders.csv;
```

- D.

```
COPY INTO ORDERS(ORDER_DATE) FROM @mystage/orders.csv FILE_FORMAT = (TYPE = CSV, DATE_FORMAT = 'YYYY-MM-DD');
```

- E.

```
COPY INTO ORDERS(ORDER_DATE) FROM @mystage/orders.csv FILE_FORMAT = (TYPE = CSV, DATE_FORMAT = 'YYYY-MM-DD');
```

Answer: C

Explanation:

Option E provides the most robust solution by using 'TRY TO DATE' to attempt conversion from multiple possible date formats. If a conversion is successful, it converts DATE to VARCHAR, and if none are successful, it sets the value to NULL. The 'TO VARCHAR' function ensures that output is in 'YYYY-MM-DD' format. Other options may either fail or not handle different date formats correctly. The 'TRANSFORM AS SELECT' clause within the 'COPY INTO' statement provides flexibility in transforming the input data during the load process. Make sure that stage is set to internal stage when referencing itself.

NEW QUESTION # 91

You are responsible for managing a Snowflake environment where data is loaded from various external sources. You want to use Snowsight to quickly identify all tables within a specific database and schema that have not been loaded in the last 7 days. Which of the following methods, or combination of methods, provides the most efficient and accurate way to achieve this using Snowsight features?

- A. Use the Snowsight Search functionality to search for tables within the database and schema.

Then, manually inspect each table's 'Last Modified' timestamp in the table details panel.

- B. Use the Snowsight Data > Databases navigation to select the database and schema. Filter the table list by 'Last Modified' date using the built-in filter options. If filter is not available manually inspect each table by scrolling table by table.
- C. Execute a 'SHOW TABLES' command in the Snowsight SQL Worksheet and manually inspect the 'last_altered' column in the results.
- D. Use the Snowsight Data > Databases navigation to select the database and schema. Then, use the Snowsight SQL Worksheet to create a custom dashboard displaying a table with columns for 'table_name' and 'last_altered' by querying the Information Schema 'TABLES' view and filter by the last_altered within the last 7 days.
- E. Query the Snowflake Information Schema using the Snowsight SQL Worksheet to retrieve the 'TABLES' view and filter by 'last_altered' column. Then navigate to the table in Snowsight to verify.

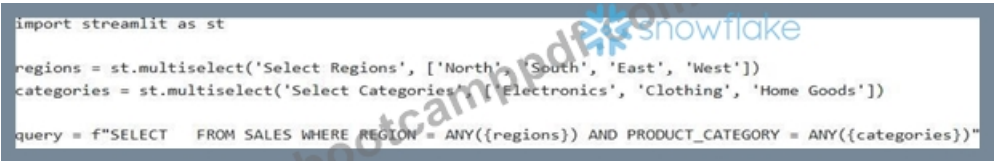
Answer: D,E

Explanation:

Options B and E offer the most efficient and accurate solutions. Option B utilizes the Information Schema, a built-in Snowflake resource, and a SQL query within Snowsight to directly retrieve the required information. Filtering by the 'last_altered' column provides a precise list of tables not loaded in the last 7 days. Option E is the correct and more convenient. Creating a custom dashboard using the Information Schema within Snowsight is the most convenient way of monitoring data. Option A requires manual inspection, which is inefficient. Option C doesn't provide precise filtering. Option D will retrieve the 'last_altered' value but then manual filtering required.

NEW QUESTION # 92

You are using a Snowflake Notebook to build a Streamlit dashboard that allows users to filter sales data based on region and product category. The sales data is in a Snowflake table named 'SALES'. You want to enable users to select multiple regions and product categories from multi-select boxes in the Streamlit application. How would you construct the SQL query to efficiently filter the data based on the user's selections, using parameters passed from Streamlit?

- 
- A.

```
query = f"SELECT FROM SALES WHERE REGION = ANY({regions}) AND PRODUCT_CATEGORY = ANY({categories})"
```
 - B.

```
SELECT FROM SALES WHERE REGION IN ({selected_regions}) AND PRODUCT_CATEGORY IN ({selected_categories})
```

 (where '{selected_regions}' and '{selected_categories}' are lists directly passed from Streamlit without any modification)
 - C.

```
SELECT FROM SALES WHERE REGION = '{selected_region}' AND PRODUCT_CATEGORY = '{selected_category}'
```

 (where '{selected_region}' and '{selected_category}' are single strings passed directly from Streamlit)
 - D.

```
SELECT FROM SALES WHERE REGION IN ('{selected_regions}') AND PRODUCT_CATEGORY IN ('{selected_categories}')
```

 (where '{selected_regions}' and '{selected_categories}' are comma-separated strings generated from the lists of selected options in Streamlit)
 - E.

```
import streamlit as st

regions = st.multiselect('Select Regions', ['North', 'South', 'East', 'West'])
categories = st.multiselect('Select Categories', ['Electronics', 'Clothing', 'Home Goods'])

region_str = ', '.join([f"'{r}'" for r in regions])
category_str = ', '.join([f"'{c}'" for c in categories])

query = f"SELECT FROM SALES WHERE REGION IN ({region_str}) AND PRODUCT_CATEGORY IN ({category_str})"
```

Answer: E

Explanation:

Option D provides the most accurate and secure way to construct the SQL query. By correctly formatting the lists of selected regions and categories as comma-separated strings with single quotes around each value and then embedding these strings within the 'IN' clause, you avoid SQL injection vulnerabilities. Option E can be suitable if snowflake support ANY with Lists directly but D is

more widely compatible way. The other options are either vulnerable to SQL injection (A and B), or incorrect in how they handle the list of selected values (C).

NEW QUESTION # 93

You are tasked with creating a secure data sharing environment in Snowflake. You need to share a table named 'CUSTOMER RECORDS' from the 'SALES DB' database in your account (Account A) with another Snowflake account (Account B). You want to ensure that Account B can only query the data and cannot modify it in any way. Which of the following steps are REQUIRED to achieve this securely and effectively?

- A. Create a database in Account B from the share provided by Account A, and grant SELECT privilege to the roles in Account B that need access.
- B. Create a masking policy on all the columns of the 'CUSTOMER RECORDS' table before creating the share object.
- C. Create an external function that reads the data from Account A and presents it to Account B.
- D. Grant OWNERSHIP on the 'CUSTOMER RECORDS' table to the target account (Account B).
- E. Create a share object in Account A and grant USAGE privilege on the database and SELECT privilege on the table to the share.

Answer: A,E

Explanation:

To share data securely, you need to create a share object and grant appropriate privileges in the source account (A). This includes USAGE on the database and SELECT on the table. The target account (B) then creates a database from the share, which is a read-only copy of the data.

Finally, SELECT privilege must be granted to roles within account B to allow access. Granting OWNERSHIP to the target account (C) defeats the purpose of secure sharing and isn't required or best practice. External functions (D) are not the correct approach. Masking Policies (E) might be appropriate based on data sensitivity but aren't a fundamental requirement for simple data sharing.

NEW QUESTION # 94

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