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Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q159-Q164):

NEW QUESTION # 159
A security auditor has identified that several users have been granted the role directly. Your company's security policy mandates that 'ACCOUNTADMIN' should only be used in emergency scenarios and access should be granted temporarily through a subordinate role. Which of the following steps should you take to remediate this situation while minimizing disruption to existing user workflows? (Choose two)

- A. Create a new custom role (e.g., 'ADMIN_ROLE) and grant ` ACCOUNTADMIN' to this role. Then grant this role with 'GRANT ROLE ADMIN_ROLE TO USER
- B. Create a new custom role (e.g., 'ADMIN ROLE') and grant it 'OWNERSHIP on the account. Grant the 'ADMIN ROLE' to the users who currently have ACCOUNTADMIN'.
- C. Revoke the 'ACCOUNTADMIN' role from all users and inform them that they should not be using this role anymore. If they have access requirement, contact sysadmin.
- D. Create a new custom role (e.g., 'ADMIN ROLE) and grant it the 'ACCOUNTADMIN' role. Then grant the 'ADMIN

ROLE to the users who currently have ACCOUNTADMIN'.
- E. Create a new custom role (e.g., 'ADMIN ROLE) and grant it all the privileges currently held by the 'ACCOUNTADMIN' role.

Answer: A,D

Explanation:
Option A: Creating a subordinate role and granting it the 'ACCOUNTADMIN' role is the correct approach. This allows you to control access to through a more manageable role. Option D is how the grant should be implemented. Option B is incorrect because the complete set of
'ACCOUNTADMIN' privileges is complex and subject to change; using GRANT ROLE ensures the custom role always inherits the full 'ACCOUNTADMIN' permissions. Option C would disrupt users' workflows significantly. Option E OWNERSHIP on Account is not the intended role

NEW QUESTION # 160
A data engineer is trying to create a new internal stage named in Snowflake using the following command: 'CREATE OR REPLACE STAGE FILE FORMAT = (TYPE = CSV COMPRESSION = GZIP)f. After running the command, they receive an error stating 'SQL compilation error: Object does not exist, or operation cannot be performed.'. What is the MOST likely reason for this error?

- A. Internal stages cannot use the GZIP compression format.
- B. The user does not have the necessary privileges to create stages in Snowflake.
- C. The specified file format does not exist or is invalid.
- D. No database or schema is currently selected for the session context.
- E. A stage with the same name already exists and the user does not have permissions to replace it.

Answer: D

Explanation:
The error 'Object does not exist, or operation cannot be performed.' typically occurs when the database and schema are not explicitly specified, and the session context is not set, so Snowflake doesn't know where to create the stage. While permission issues (Option A) can cause errors, the error message is typically different and specifies insufficient privileges. Options B and E are incorrect because CSV with GZIP is a valid file format for internal stages. Option C, while possible, is less likely because the 'CREATE OR REPLACE clause should handle replacing the stage if the user has sufficient permissions.

NEW QUESTION # 161
You are developing a Snowflake Notebook to perform data transformations using Snowpark. As part of the transformation, you need to filter a DataFrame based on a dynamically generated SQL expression. You have a Python dictionary 'filter_conditionS where keys are column names and values are the filter values. You want to construct a SQL 'WHERE clause from this dictionary and apply it to the DataFrame. However, the value types are mixed (strings, integers, dates). Which of the following approaches best handles the various data types and securely constructs the filter expression?

- A.

```
where_clause = ' AND '.join([f'{col} = %s' for col in filter_conditions])
values = list(filter_conditions.values())
df.filter(where_clause % tuple(values))
```

- B.

```
where_clause = ' AND '.join([f'{col} = {value}' for col, value in filter_conditions.items()])
df.filter(where_clause)
```

```
conditions = []
for col, val in filter_conditions.items():
    if isinstance(val, str):
        conditions.append(col + " = '" + val + "'")
    else:
        conditions.append(col + " = " + str(val))
where_clause = ' AND '.join(conditions)
df.filter(where_clause)
```

- C.

```
from snowflake.snowpark.functions import lit, col
conditions = []
for column, value in filter_conditions.items():
    conditions.append(col(column) == lit(value))
from functools import reduce
import operator
df.filter(reduce(operator.and_, conditions))
```
- D.
- E.

```
where_clause = ' AND '.join([f'{col} = %s' for col in filter_conditions])
values = list(filter_conditions.values())
df.filter(where_clause % tuple(values))
```

Answer: E

Explanation:

Option C is the best and most secure approach. It leverages Snowpark functions `col` and 'lit' to create the filter conditions. The `col` function represents a column in the DataFrame, and creates a literal value. This avoids SQL injection vulnerabilities and correctly handles different data types because Snowpark handles the data type conversion and quoting appropriately. Using `reduce" and "operator.and_' , we combine all conditions. Options A, B, D and E are all vulnerable to SQL injection because they directly construct the SQL string with user- provided values without proper escaping or parameterization. Additionally, options A, B, D and E have shortcomings for different date types.

NEW QUESTION # 162

You are tasked with creating a Snowflake Notebook that reads data from an external stage (AWS S3), transforms it using Python, and then loads the transformed data into a Snowflake table. The external stage requires authentication using AWS IAM roles. Which of the following steps are necessary to configure the connection and access the data from the external stage within your Snowflake Notebook using Python? (Choose all that apply.)

- A. Grant the necessary privileges (e.g., USAGE, READ) on the storage integration object to the Snowflake role used by the Notebook session.
- B. Configure the AWS IAM role to trust the Snowflake account and grant it access to the S3 bucket.
- C. Create a Snowflake storage integration object that defines the AWS IAM role ARN and the S3 bucket URL.
- D. Create a Snowflake external table that points to the S3 bucket and uses the storage integration.
- E. Use the AWS SDK for Python (bot03) within the Snowflake Notebook to assume the IAM role and access the S3 bucket directly.

Answer: A,B,C,D

Explanation:

Options A, B, C, and E are essential. To access data in an external stage secured with IAM roles, you need a Snowflake storage integration object (A) that defines the connection to S3. You must grant privileges on this integration to the appropriate Snowflake role (B). The IAM role must be configured to trust Snowflake (C). Finally, you typically create an external table (E) that uses the storage integration to access the data in S3. Using bot03 directly (D) is generally not necessary and bypasses Snowflake's security and governance mechanisms for accessing external stages.

NEW QUESTION # 163

You have a Snowflake table named 'SALES DATA' that you load data into daily from a CSV file using Snowsight. Recently, the load times have increased significantly. You suspect the Virtual Warehouse size is the bottleneck. You have the following Virtual Warehouse sizes available: X- Small, Small, Medium, Large, X-Large. Choosing the best size depends on cost and speed. You examine the Query History in Snowsight and notice that the COPY INTO commands are consistently using only a small fraction of the X-Large warehouse's compute resources. Which of the following actions would be the MOST cost- effective while also potentially improving (or at least maintaining) the data loading performance?

- A. Keep the X-Large warehouse but investigate other potential bottlenecks, such as the file format definition, network latency, or concurrency issues with other queries. Consider using a dedicated warehouse for loading only. Also consider increasing number of parallel threads for loading.
- B. Increase the Virtual Warehouse size to 2X-Large. This will guarantee faster load times.

- C. Enable auto-suspend on the X-Large warehouse if it isn't already enabled. This will reduce costs when the warehouse is idle but won't address the loading bottleneck.
- D. Decrease the Virtual Warehouse size to Small or Medium. Since the current warehouse is underutilized, a smaller size will reduce costs without significantly impacting performance.
- E. Switch to using Snowpipe for continuous data ingestion instead of COPY INTO. This may improve load times but requires additional configuration and cost analysis.

Answer: A

Explanation:
Since the X-Large warehouse is underutilized, increasing its size is not cost-effective. Reducing the size might further degrade performance. Enabling auto-suspend only addresses idle costs.
The best approach is to investigate other potential bottlenecks while maintaining the current (potentially oversized) warehouse. Using a dedicated warehouse isolates the loading workload.
Snowpipe is a good alternative, but it's a more complex solution that requires evaluation and isn't the immediately cost effective solution. Option D addresses both performance and cost concerns without making assumptions about Snowpipe's suitability in this specific scenario. Parallel threads increase concurrency, which can speed up loading of multiple files.

NEW QUESTION # 164

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