

Snowflake Assignment-4

Assign a default role to a user (using SQL)

In this assignment, you will create a new user and a new custom role. Then you will set the default role for the user to be the new custom role.

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Please note that this assignment repeatedly requires you to switch between a SECURITYADMIN user and the new users you will create. For making it easy, you can open your Snowflake WebUI in two different browsers, with one browser logged in as SECURITYADMIN so that you don't have to switch the user from SECURITYADMIN repeatedly

1. Make sure that you have the **SECURITYADMIN** role or higher.

- . `USE ROLE SECURITYADMIN;`

2. **Please create a new user** for whom we will configure a default role later.

- . `CREATE USER john_doe PASSWORD= 'foobar123' MUST_CHANGE_PASSWORD = TRUE;`

3. Now **login as the newly created user, i.e., john_doe**. You will need to change the password as we set the "MUST_CHANGE_PASSWORD" to true when creating the user. **Check what is the default role** for this newly created user by running the following SQL.

- . `SELECT CURRENT_ROLE();`

4. Now **log back in as the security administrator and create a new role**.

- . `USE ROLE SECURITYADMIN;`

- . `CREATE ROLE POWER_USERS;`

5. Now **grant** the role to the previously created **john_doe** user.

- . `GRANT ROLE POWER_USERS TO USER john_doe;`

6. Note that **granting a role does not make it the default** role for the user, so you will need to make this role the default role for the **john_doe** user.

- . `ALTER USER john_doe SET DEFAULT_ROLE = 'POWER_USERS';`

7. **Login again as john_doe** and check what is the default role now. You will see "POWER_USERS" set as the default role.

- . `SELECT CURRENT_ROLE();`

We created a new user in the preceding steps, created a new role, and assigned the role as the default role for the new user. Next, we will explore a few pitfalls related to the assignment of the default role. Please note that the questions asked in this assignment are related to the following steps.

8. **Log back in as the security administrator**, create a **new user** and grant them a **fictitious role**. You will see that the statement will succeed even though the default role does not exist.

```
. CREATE USER joe_bloggs PASSWORD='foobar123' MUST_CHANGE_PASSWORD = TRUE  
DEFAULT_ROLE = 'FOXTROT_TANGO';
```

9. Now **login as the just created user**, i.e., **joe_bloggs**. You will need to change the password as we set the “MUST_CHANGE_PASSWORD” to true when creating the user. Note down **what is the default role** for this newly created user by running the following SQL. Check if the user has access to any other role.

```
. SELECT CURRENT_ROLE();
```

10. **Log back in as the security administrator**, create a new user and grant them the POWER_USERS role.

```
. CREATE USER jane_briggs PASSWORD='foobar123' MUST_CHANGE_PASSWORD = TRUE  
DEFAULT_ROLE = 'POWER_USERS';
```

11. Now login as the just created user, i.e., **jane_briggs**. You will need to change the password as we set the “MUST_CHANGE_PASSWORD” to true when creating the user. Note down **what is the default role** for this newly created user by running the following SQL. Check if the user has access to any other role.

```
. SELECT CURRENT_ROLE();
```

Please proceed to answering the questions related to this assignment.

Questions for this assignment

Consider the statement we ran to give joe_bloggs the **FOXTROT_TANGO** role.

```
CREATE USER joe_bloggs PASSWORD='foobar123' MUST_CHANGE_PASSWORD =  
TRUE DEFAULT_ROLE = 'FOXTROT_TANGO';
```

Why was the role NOT set as the default role for joe_bloggs?

Consider the statement we ran to give jane_briggs the **POWER_USERS** role.

```
CREATE USER jane_briggs PASSWORD='foobar123' MUST_CHANGE_PASSWORD =  
TRUE DEFAULT_ROLE = 'POWER_USERS';
```

Why was the role NOT set as the default role for jane_briggs although the role does exist?