

#### **Snowflake ROLE**

#### **Snowflake Documentation**

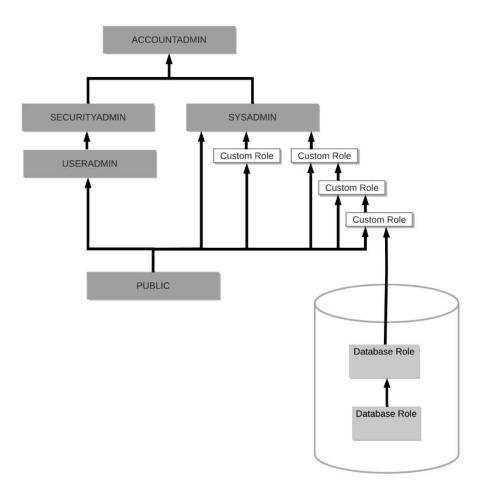
- Overview of Access Control
- CREATE ROLE
- GRANT < Privileges > TO ROLE
- Configuring Access Control

#### **Active Roles**

Database	Role Type	Role Name	Role Description
ALL	System- Defined	ORGADMIN	<ul> <li>(aka Organization Administrator)</li> <li>Role that manages operations at the organization level. More specifically, this role: <ul> <li>Can create accounts in the organization.</li> <li>Can view all accounts in the organization (using SHOW ORGANIZATION ACCOUNTS) as well as all regions enabled for the organization (using SHOW REGIONS).</li> <li>Can view usage information across the organization.</li> </ul> </li> </ul>
ALL	System- Defined	ACCOUNTADMIN	(aka Account Administrator)

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				Role that encapsulates the SYSADMIN and SECURITYADMIN system-defined roles. It is the top-level role in the system and should be granted only to a limited/controlled number of users in your account
	ALL	System- Defined	SECURITYADMIN	<ul> <li>(aka Security Administrator)</li> <li>Role that can manage any object grant globally, as well as create, monitor, and manage users and roles. More specifically, this role: <ul> <li>Is granted the MANAGE GRANTS security privilege to be able to modify any grant, including revoking it.</li> <li>Inherits the privileges of the USERADMIN role via the system role hierarchy (i.e. USERADMIN role is granted to SECURITYADMIN).</li> </ul> </li> </ul>
	ALL	System- Defined	USERADMIN	<ul> <li>(aka User and Role Administrator)</li> <li>Role that is dedicated to user and role management only. More specifically, this role: <ul> <li>Is granted the CREATE USER and CREATE ROLE security privileges.</li> <li>Can create users and roles in the account.</li> <li>This role can also manage users and roles that it owns. Only the role with the OWNERSHIP privilege on an object (i.e. user or role), or a higher role, can modify the object properties.</li> </ul> </li> </ul>
	ALL	System- Defined	SYSADMIN	(aka System Administrator)  Role that has privileges to create warehouses, databases, schemas, tables, views, tasks, and other objects in an account.  If, as recommended, you create a role hierarchy that ultimately assigns all custom roles to the SYSADMIN role, this role also has the ability to grant privileges on warehouses,

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			databases, and other objects to other roles.	
DB_KKF_CHAINACCOUNT	Custom	RL_PROJECTADMIN	(aka Project Administrator - Chain Accounts)  Role that has privileges to create schemas, tables and views in the DB_KKC_CHAINACCOUNT database.	
DB_KKF_MAIN	Custom	RL_POWERBIADMIN	(aka Power BI Administrator)  Role that has privileges to read tables and views in the DB_KKF_MAIN and DB_KKF_CHAINACCOUNT databases. This role acts as a service account utilized by Power BI, since Power BI only needs read privileges to specific data objects within the DB_KKF_MAIN and DB_KKF_CHAINACCOUNT databases.	



#### CREATE ROLE Template

```
1 -- Only the USERADMIN role, or a higher role, has this privilege by default. The privilege can be granted to additional roles as needed
2 USE ROLE USERADMIN;
3
4 -- Proper naming convention for creating a role is to prepend "RL_" before the role name (i.e. RL_PROJECT_ADMIN)
5 CREATE OR REPLACE ROLE RL_<Role_Name>;
```

# Grant a role access to the specified Snowflake Warehouse

```
1 USE ROLE SECURITYADMIN;
2
3 GRANT USAGE ON WAREHOUSE <Warehouse_Name>
4 TO ROLE <Role Name>;
```

### Grant a role access to the specified Snowflake Database

```
1 USE ROLE SECURITYADMIN;
2
3 GRANT USAGE ON DATABASE <Database_Name>
4 TO ROLE <Role_Name>;
```

# Grant a role access to the specified Snowflake Schema

```
1 USE ROLE SECURITYADMIN;
2
3 GRANT USAGE ON SCHEMA <Database Name>.<Schema Name>
```

4 TO ROLE <Role Name>;

# Grant a role privileges to the specified Snowflake Table/View

```
1 USE ROLE SECURITYADMIN;
2
3 GRANT <privilege> ON TABLE/VIEW <Database_Name>.<Schema_Name>.<Table/View_Name>
4 TO ROLE <Role_Name>;
```

### Grant a user access to a specific Snowflake role

```
1 USE ROLE SECURITYADMIN;
2
3 GRANT ROLE <Role_Name>
4 TO USER <User_Name>;
```

# Grant additional privileges to a specific Snowflake role

```
1 USE ROLE SECURITYADMIN;
 4 GRANT <Account_Object_Privileges>
 5     ON <Account_Object> <Account_Object_Name>
     TO ROLE <Role_Name>
               Account Object & Privileges:
9
          */
10
11 ;
12
13
14
15 --
16 GRANT <Schema_Privileges>
   ON SCHEMA <Database Name>.<Schema Name>
18
      TO ROLE <Role Name>
```

```
20
               Schema Privileges:
21
           */
22
23;
24
25
26
27 --
28 GRANT <Schema_Privileges>
       ON ALL SCHEMAS IN DATABASE <Database Name>
       TO ROLE <Role_Name>
31
           /*
32
               Schema Privileges:
33
34
           */
35 ;
36
37
38
39 --
40 GRANT <Schema Privileges>
       ON FUTURE SCHEMAS IN DATABASE <Database Name>
41
42
       TO ROLE <Role_Name>
43
           /*
44
               Schema Privileges:
45
           */
46
47 ;
48
49
50
51 --
52 GRANT <Schema_Object_Privileges>
       ON <Object_Type> <Object_Name>
53
54
       TO ROLE <Role_Name>
55
           /*
56
               Schema Object & Privileges:
57
58
           */
59;
60
61
62
63 --
64 GRANT <Schema Object Privileges>
       ON ALL <Object Type Plural>
       IN DATABASE <Database Name>
66
67
       TO ROLE <Role Name>
68
           /*
69
               Object Type & Privileges:
70
71
           */
72;
73
74
75
76 --
77 GRANT <Schema_Object_Privileges>
78
       ON ALL <Object_Type_Plural>
79
       IN SCHEMA <Database_Name>.<Schema_Name>
80
       TO ROLE <Role_Name>
81
           /*
               Object Type & Privileges:
```

```
83
 84
 85;
 86
 87
 88
 89 --
 90 GRANT <Schema_Object_Privileges>
 91
       ON FUTURE <Object_Type_Plural>
 92
       IN DATABASE <Database Name>
       TO ROLE <Role_Name>
 94
 95
                Object Type & Privileges:
 96
            */
 97
 98;
 99
100
101
102 --
103 GRANT <Schema_Object_Privileges>
       ON FUTURE <Object_Type_Plural>
104
105
       IN SCHEMA <Database_Name>.<Schema_Name>
106
       TO ROLE <Role_Name>
107
            /*
                Object Type & Privileges:
108
109
            */
110
111;
```



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