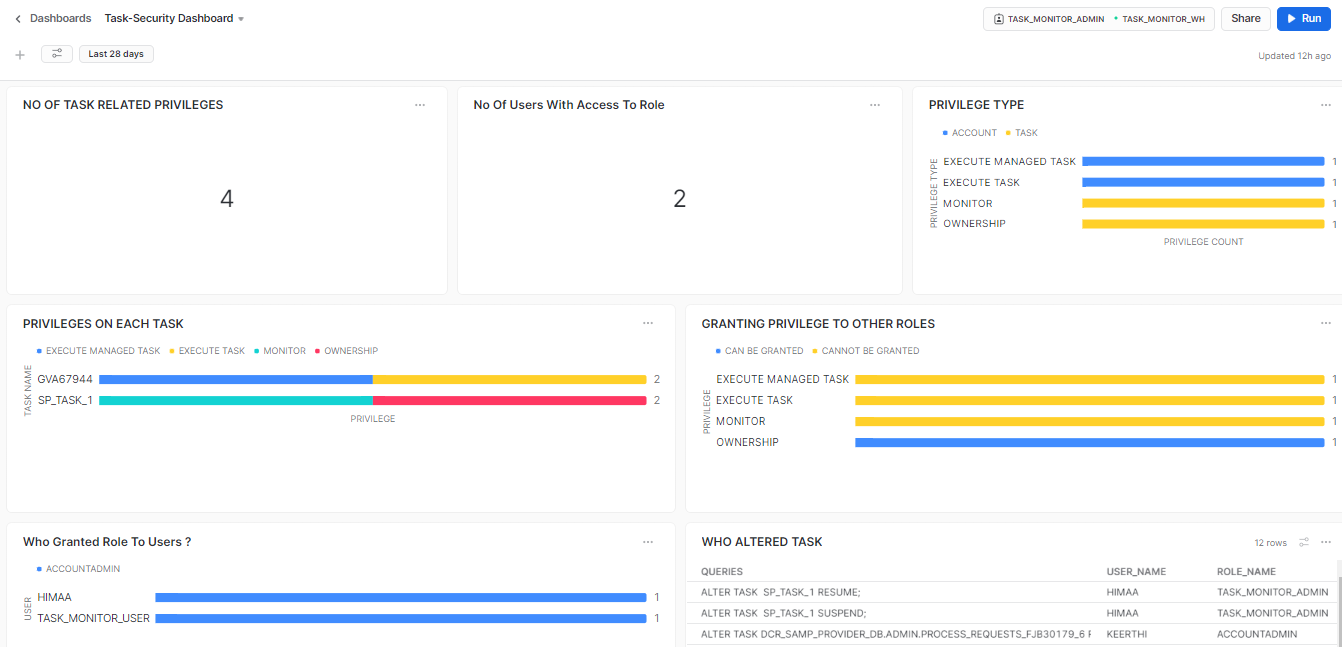
**SECURITY MONITORING DASHBOARD**

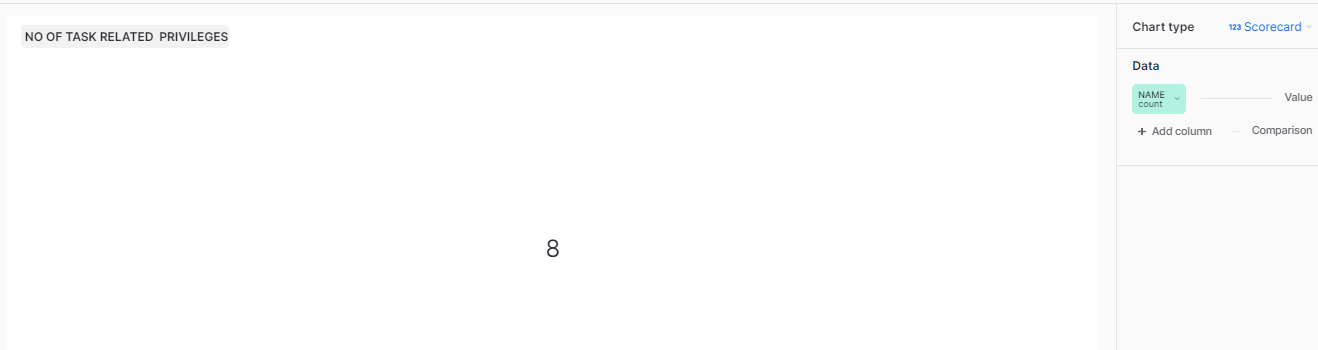
Security monitoring dashboard of snowflake tasks is used to effectively manage task-related security privileges and activities.You can track the altered history of tasks using this dashboard. Security Monitoring Dashboard provides a comprehensive view of all task-related security privileges, activities, and changes.****

**FILTERS:**

* **DATERANGE(Default Filter)**

**3.1 NO OF TASK RELATED PRIVILEGES:**

SELECT count(\*) FROM SNOWFLAKE.ACCOUNT\_USAGE.GRANTS\_TO\_ROLES WHERE GRANTEE\_NAME=CURRENT\_ROLE() AND (GRANTED\_ON ='TASK' OR PRIVILEGE IN ('EXECUTE MANAGED TASK','EXECUTE TASK') ) AND DELETED\_ON IS NULL ;



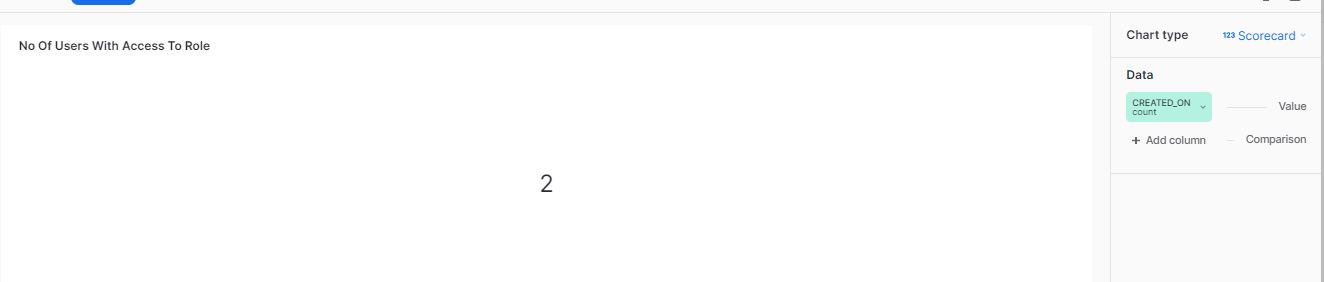
**3.2 No Of Users With Access To Role:**

SELECT GRANTEE\_NAME AS USER,GRANTED\_BY ,CREATED\_ON FROM SNOWFLAKE.ACCOUNT\_USAGE.GRANTS\_TO\_USERS WHERE GRANTED\_TO='USER'

AND DELETED\_ON IS NULL

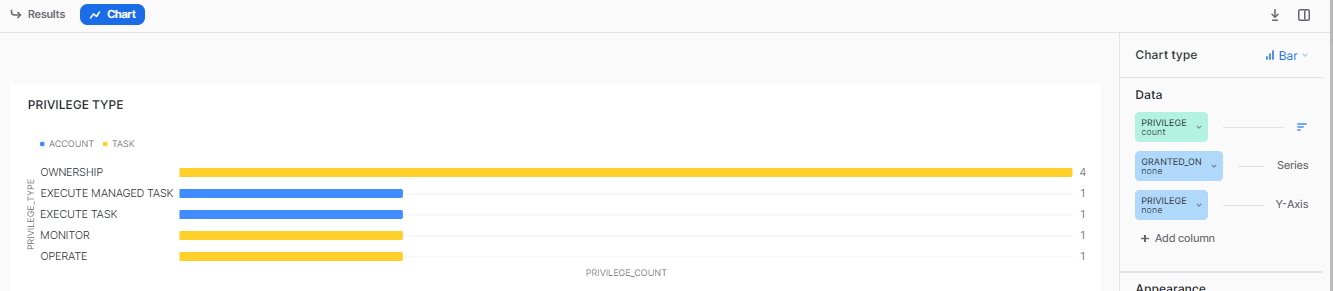
AND

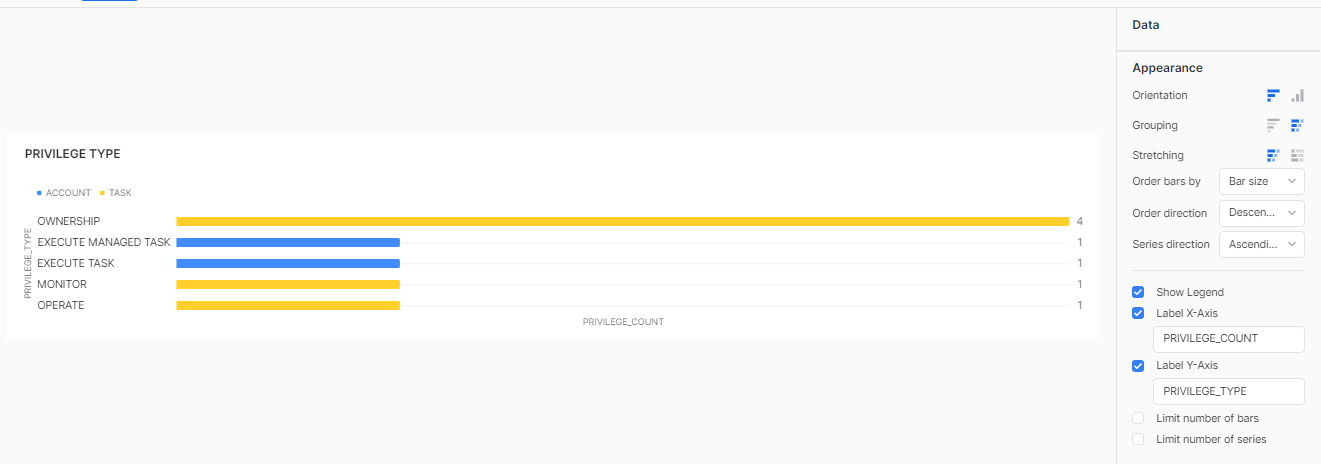
ROLE= CURRENT\_ROLE();



**3.3 PRIVILEGE TYPE:**

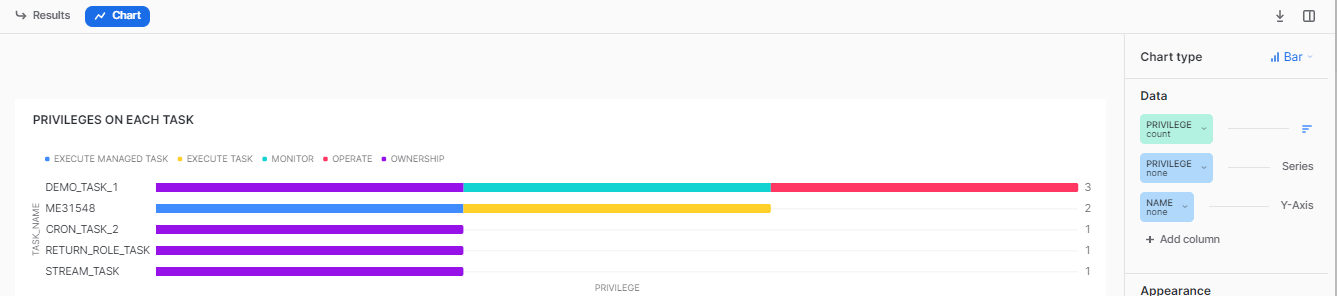
SELECT PRIVILEGE, granted\_on FROM SNOWFLAKE.ACCOUNT\_USAGE.GRANTS\_TO\_ROLES WHERE GRANTEE\_NAME=CURRENT\_ROLE() AND (GRANTED\_ON ='TASK' OR PRIVILEGE IN ('EXECUTE MANAGED TASK','EXECUTE TASK') ) AND DELETED\_ON IS NULL;

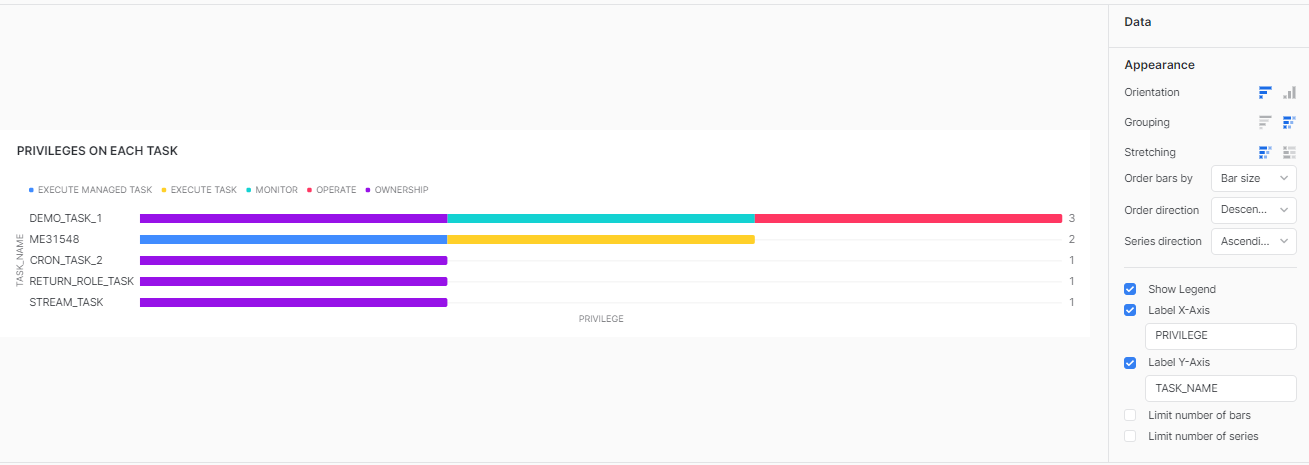




**3.4 PRIVILEGES ON EACH TASK:**

SELECT \* FROM SNOWFLAKE.ACCOUNT\_USAGE.GRANTS\_TO\_ROLES WHERE GRANTEE\_NAME=CURRENT\_ROLE() AND (GRANTED\_ON ='TASK' OR PRIVILEGE IN ('EXECUTE MANAGED TASK','EXECUTE TASK') ) AND DELETED\_ON IS NULL;





**3.5 TASK CATEGORY:**

SELECT NAME as TASK\_NAME ,QUERY\_TEXT,STATE AS STATUS,

CASE

WHEN lower(QUERY\_TEXT) like '%insert%' AND upper(CONDITION\_TEXT) like '%SYSTEM$STREAM\_HAS\_DATA%' THEN 'CDC'

WHEN lower(QUERY\_TEXT) like '%insert%' THEN 'Ingestion'

WHEN lower(QUERY\_TEXT) like '%copy into%' THEN 'Loading'

WHEN lower(QUERY\_TEXT) like '%describe%' THEN 'Verify Metadata'

WHEN lower(QUERY\_TEXT) like '%update%' THEN 'Modification'

WHEN lower(QUERY\_TEXT) like '%select%' THEN 'Retrieval'

WHEN lower(QUERY\_TEXT) like '%drop%' THEN 'Management'

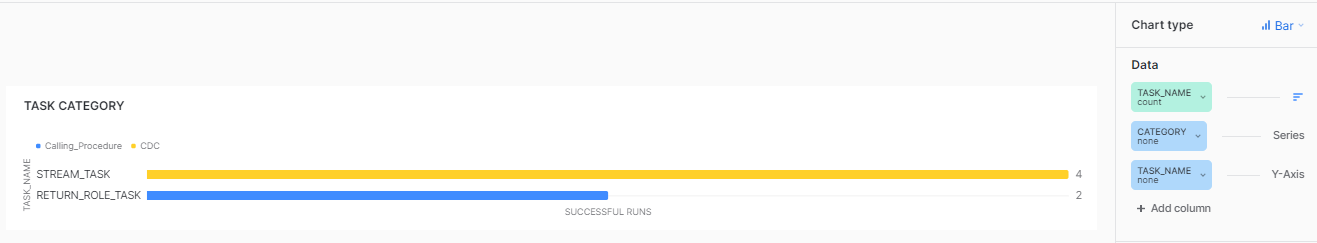
WHEN lower(QUERY\_TEXT) like '%call%' THEN 'Calling\_Procedure'

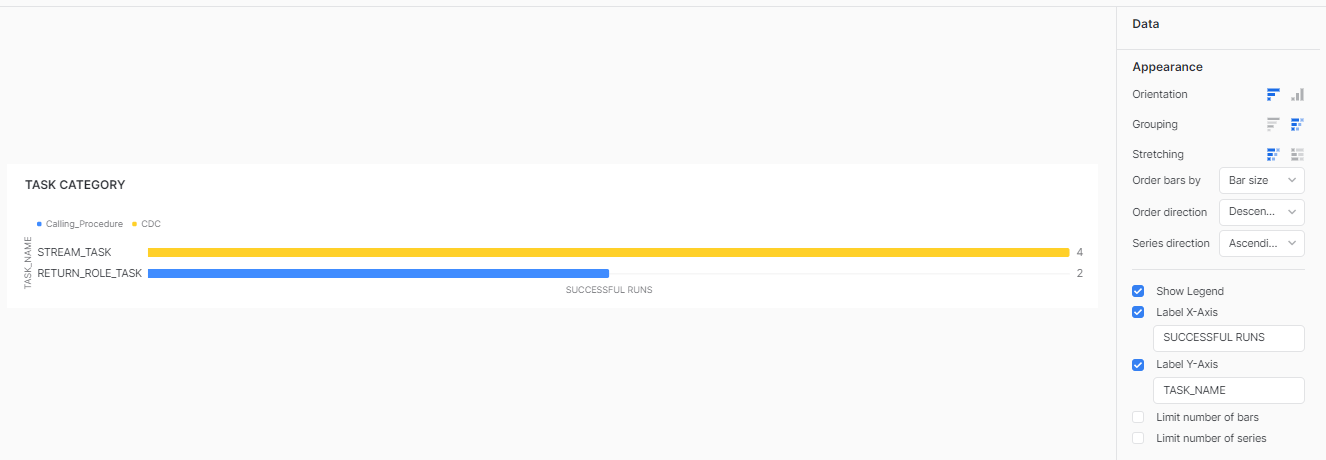
ELSE 'Others'

END AS category

FROM SNOWFLAKE.ACCOUNT\_USAGE.TASK\_HISTORY

WHERE STATUS='SUCCEEDED' AND TASK\_NAME IN (SELECT NAME FROM SNOWFLAKE.ACCOUNT\_USAGE.GRANTS\_TO\_ROLES WHERE GRANTEE\_NAME=CURRENT\_ROLE() AND (GRANTED\_ON ='TASK' OR PRIVILEGE IN ('EXECUTE MANAGED TASK','EXECUTE TASK') ) AND DELETED\_ON IS NULL) ;





**3.6 GRANTING PRIVILEGE TO OTHER ROLES:**

SELECT NAME AS TASK\_NAME, PRIVILEGE,

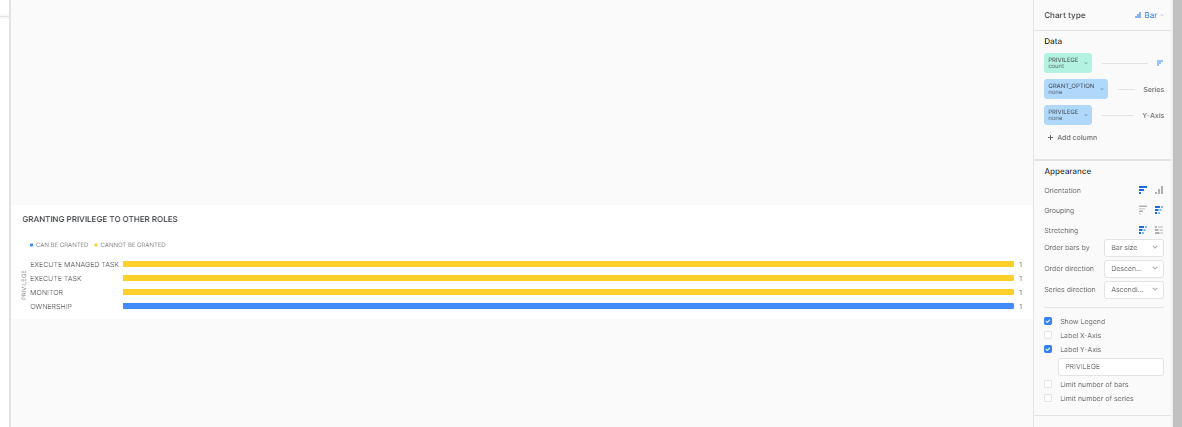
CASE

WHEN GRANT\_OPTION = 'FALSE' THEN 'CAN BE GRANTED'

ELSE 'CANNOT BE GRANTED'

END AS GRANT\_OPTION

FROM SNOWFLAKE.ACCOUNT\_USAGE.GRANTS\_TO\_ROLES WHERE GRANTEE\_NAME=CURRENT\_ROLE() AND (GRANTED\_ON ='TASK' OR PRIVILEGE IN ('EXECUTE MANAGED TASK','EXECUTE TASK') ) AND DELETED\_ON IS NULL;



**3.7 Who Granted Role To Users ?:**

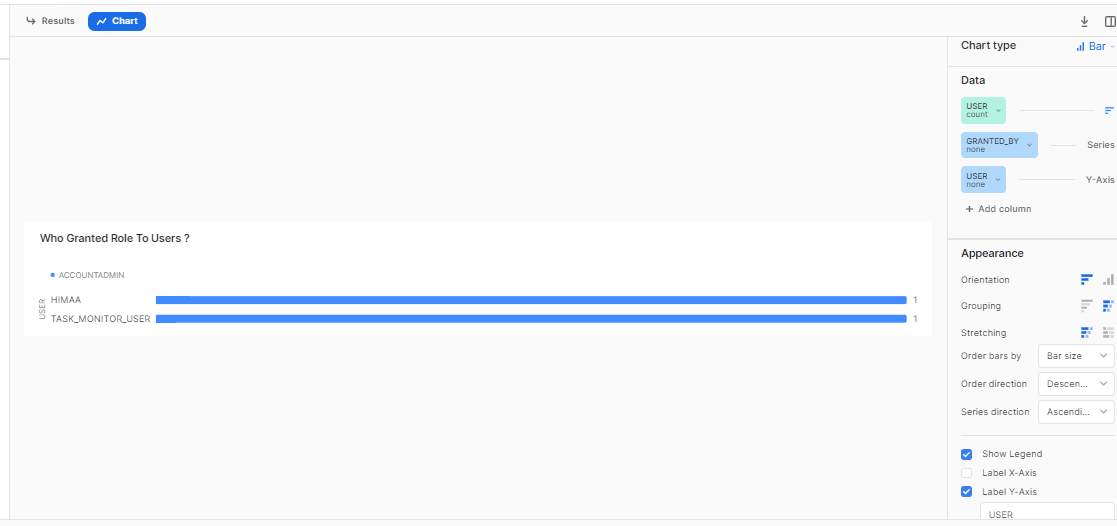
SELECT GRANTEE\_NAME AS USER,

IFNULL( GRANTED\_BY , 'NONE' ) AS GRANTED\_BY,

CREATED\_ON FROM SNOWFLAKE.ACCOUNT\_USAGE.GRANTS\_TO\_USERS WHERE GRANTED\_TO='USER'

AND

ROLE= CURRENT\_ROLE() AND DELETED\_ON IS NULL;



**3.8 WHO ALTERED TASK:**

select \* from ( Select

upper(QUERY\_TEXT) as QUERIES,

USER\_NAME,

ROLE\_NAME,

START\_TIME

from

SNOWFLAKE.ACCOUNT\_USAGE.QUERY\_HISTORY

where START\_TIME=:daterange and

query\_type in ('ALTER')

And upper(QUERY\_TEXT) like 'ALTER TASK%'

and execution\_status = 'SUCCESS'

and USER\_NAME in (

Select

Distinct(Name)

from

snowflake.account\_usage.users

where

deleted\_on is null)

);

