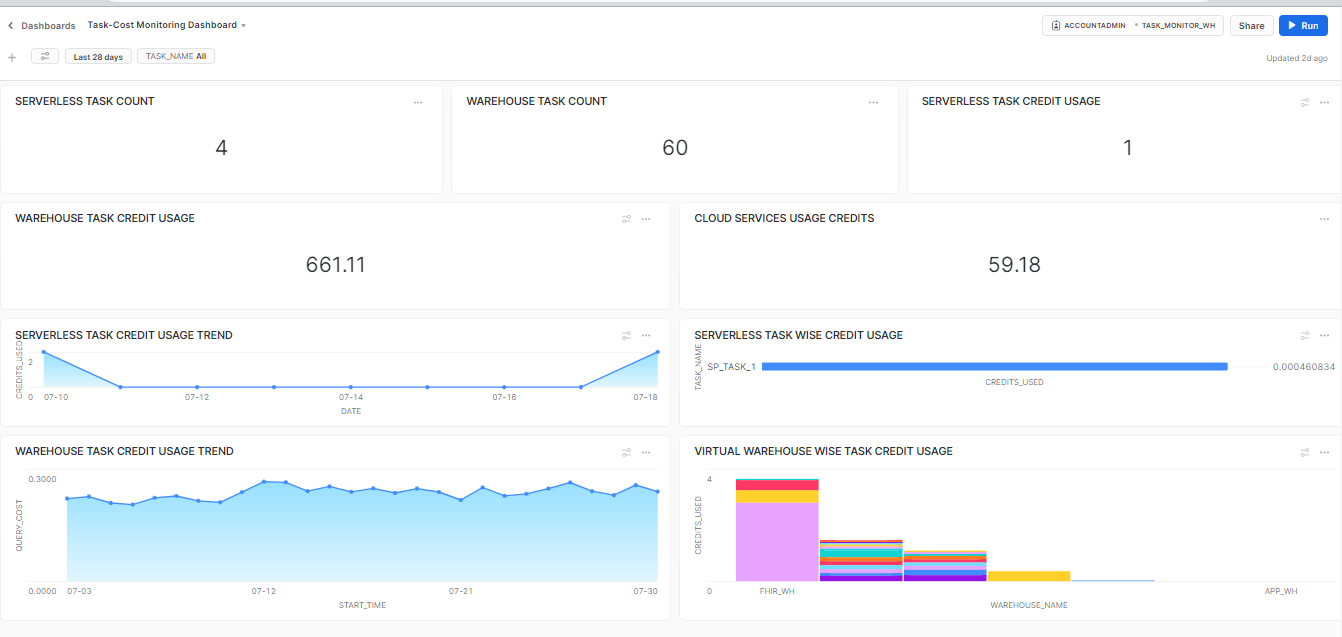
**COST MONITORING DASHBOARD**

Monitoring snowflake task credit consumption through Snowsight dashboards is crucial for effective cost management and resource optimization. Snowsight provides real-time visibility into the costs associated with running Tasks. This allows you to track cost trends, compare expenses across different dimensions, and identify cost-saving opportunities. Users can access the dashboards, interact with the data, and contribute to cost optimization efforts.

****

**FILTERS:**

* **DATERANGE(Default Filter)**
* **TASK\_NAME(Custom Filter):**

Display Name :- TASK\_NAME

SQL Keyword :- TASK\_NAME

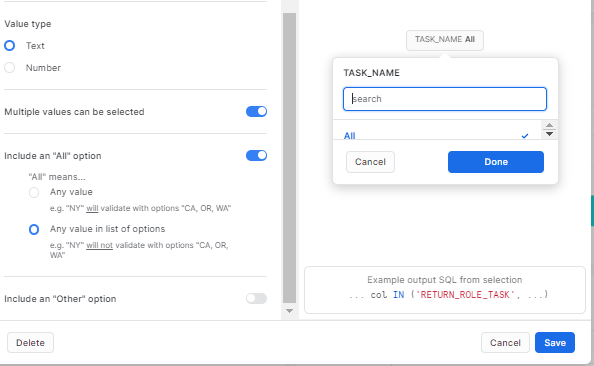
Role :- ACCOUNTADMIN

Warehouse :- TASK\_MONITOR\_WH

Options Via :- Query

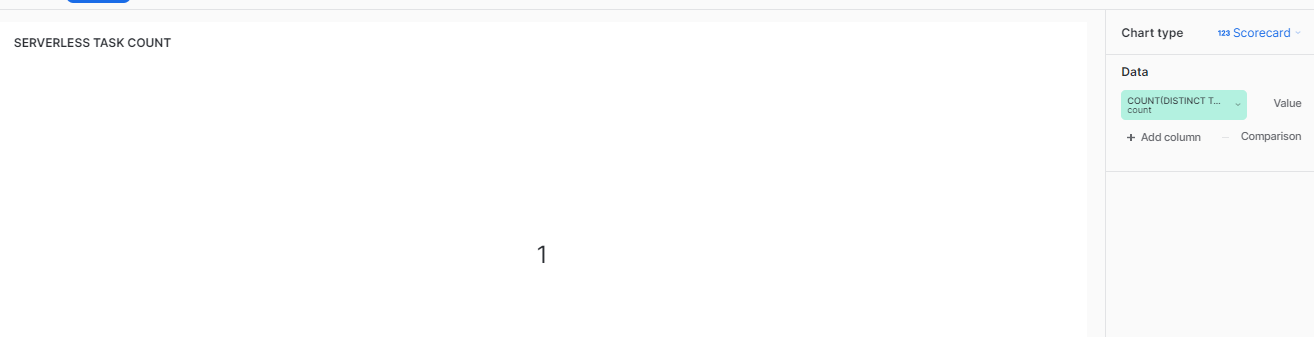
Write Query :- select distinct name from snowflake.account\_usage.task\_history;

Go for the below selections :



**2.1 SERVERLESS TASK COUNT :**

SELECT COUNT(DISTINCT TASK\_NAME) FROM SNOWFLAKE.ACCOUNT\_USAGE.SERVERLESS\_TASK\_HISTORY;



**2.2 WAREHOUSE TASK COUNT:**

SELECT COUNT(DISTINCT NAME) FROM SNOWFLAKE.ACCOUNT\_USAGE.TASK\_HISTORY

WHERE NAME NOT IN (SELECT DISTINCT TASK\_NAME FROM SNOWFLAKE.ACCOUNT\_USAGE.SERVERLESS\_TASK\_HISTORY);



**2.3 SERVERLESS TASK CREDIT USAGE:**

select ROUND(100\*sum(DAILY\_CREDITS\_USED),2) AS CREDITS\_USED from (select

task\_name,

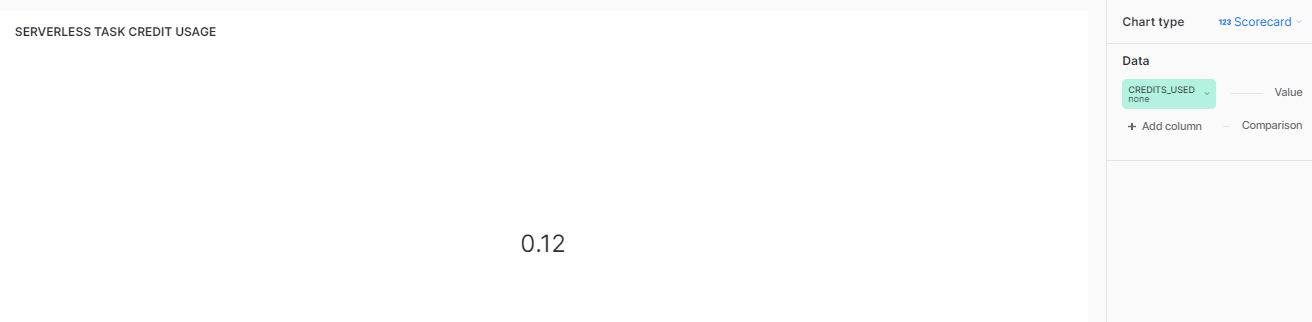
sum(credits\_used) as DAILY\_CREDITS\_USED

from "SNOWFLAKE"."ACCOUNT\_USAGE"."SERVERLESS\_TASK\_HISTORY"

where start\_time =:daterange

group by 1

order by 1 desc,2);



**2.4 WAREHOUSE TASK CREDIT USAGE:**

WITH

warehouse\_sizes AS (

SELECT 'X-Small' AS warehouse\_size, 1 AS credits\_per\_hour UNION ALL

SELECT 'Small' AS warehouse\_size, 2 AS credits\_per\_hour UNION ALL

SELECT 'Medium' AS warehouse\_size, 4 AS credits\_per\_hour UNION ALL

SELECT 'Large' AS warehouse\_size, 8 AS credits\_per\_hour UNION ALL

SELECT 'X-Large' AS warehouse\_size, 16 AS credits\_per\_hour UNION ALL

SELECT '2X-Large' AS warehouse\_size, 32 AS credits\_per\_hour UNION ALL

SELECT '3X-Large' AS warehouse\_size, 64 AS credits\_per\_hour UNION ALL

SELECT '4X-Large' AS warehouse\_size, 128 AS credits\_per\_hour

)

SELECT

qh.TASK\_NAME,

qh.STATUS,

qh.query\_id,

ROUND(100\*(qh.execution\_time/(1000\*60\*60)\*wh.credits\_per\_hour),2) AS query\_cost,

qh.query\_text,

qh.start\_time

FROM TASK\_MONITOR\_DB.TASK\_MONITOR\_SCHEMA.QUERY\_CREDITS AS qh

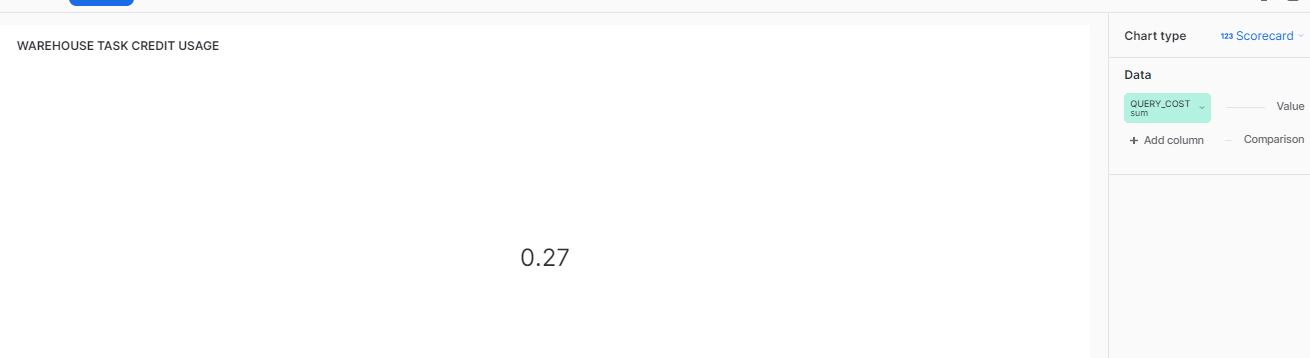
INNER JOIN warehouse\_sizes AS wh

ON qh.warehouse\_size=wh.warehouse\_size

WHERE

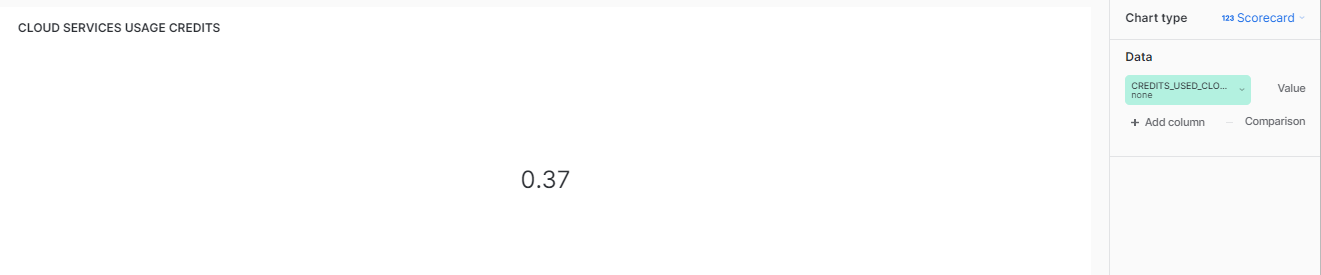
start\_time =:daterange;

//GROUP BY SUM(qh.execution\_time/(1000\*60\*60)\*wh.credits\_per\_hour);



**2.5 CLOUD SERVICES USAGE CREDITS:**

SELECT ROUND(100\*SUM(CREDITS\_USED\_CLOUD\_SERVICES),2) AS CREDITS\_USED\_CLOUD\_SERVICES FROM TASK\_MONITOR\_DB.TASK\_MONITOR\_SCHEMA.QUERY\_CREDITS;

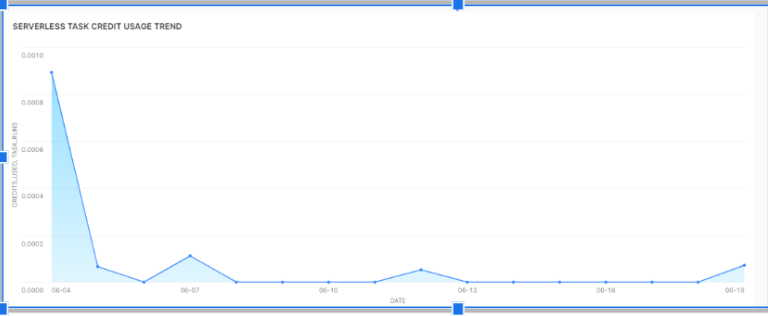


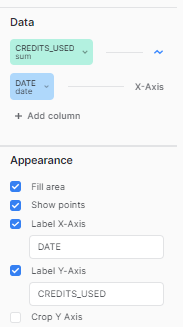
**2.6 SERVERLESS TASK CREDIT USAGE TREND:**

select COUNT(TASK\_NAME) AS TASK\_RUNS,CREDITS\_USED,START\_TIME AS DATE from "SNOWFLAKE"."ACCOUNT\_USAGE"."SERVERLESS\_TASK\_HISTORY"

where start\_time=:daterange

GROUP BY start\_time ,CREDITS\_USED;

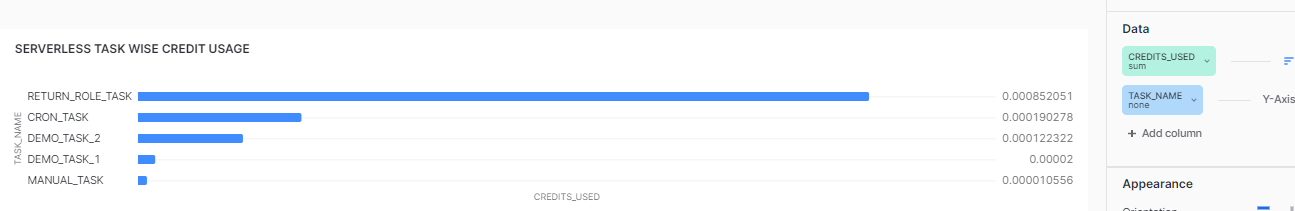


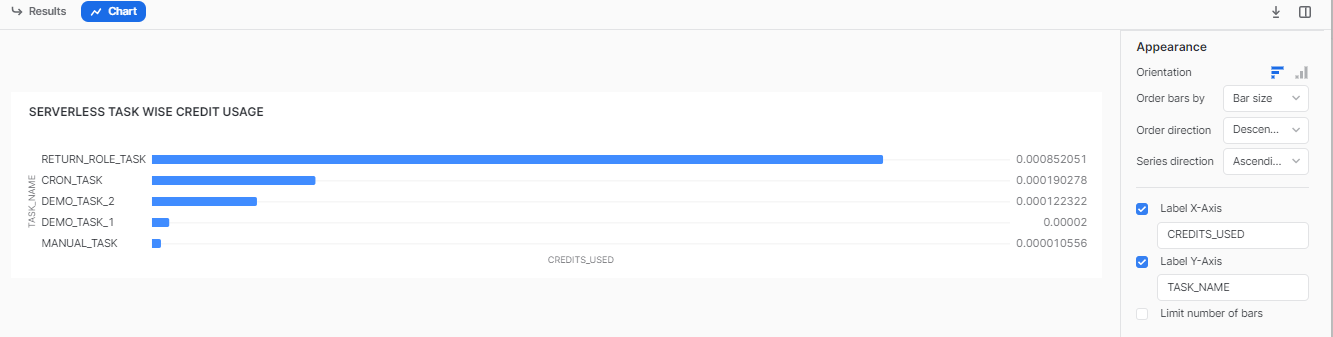


**2.7 SERVERLESS TASK WISE CREDIT USAGE:**

select TASK\_NAME,CREDITS\_USED,START\_TIME,END\_TIME,DATABASE\_NAME,SCHEMA\_NAME from "SNOWFLAKE"."ACCOUNT\_USAGE"."SERVERLESS\_TASK\_HISTORY"

where start\_time=:daterange AND TASK\_NAME=:TASK\_NAME;





**2.8 WAREHOUSE TASK CREDIT USAGE TREND:**

WITH

warehouse\_sizes AS (

SELECT 'X-Small' AS warehouse\_size, 1 AS credits\_per\_hour UNION ALL

SELECT 'Small' AS warehouse\_size, 2 AS credits\_per\_hour UNION ALL

SELECT 'Medium' AS warehouse\_size, 4 AS credits\_per\_hour UNION ALL

SELECT 'Large' AS warehouse\_size, 8 AS credits\_per\_hour UNION ALL

SELECT 'X-Large' AS warehouse\_size, 16 AS credits\_per\_hour UNION ALL

SELECT '2X-Large' AS warehouse\_size, 32 AS credits\_per\_hour UNION ALL

SELECT '3X-Large' AS warehouse\_size, 64 AS credits\_per\_hour UNION ALL

SELECT '4X-Large' AS warehouse\_size, 128 AS credits\_per\_hour

)

SELECT

qh.TASK\_NAME,

qh.STATUS,

qh.query\_id,

qh.execution\_time/(1000\*60\*60)\*wh.credits\_per\_hour AS query\_cost,

qh.query\_text,

qh.start\_time

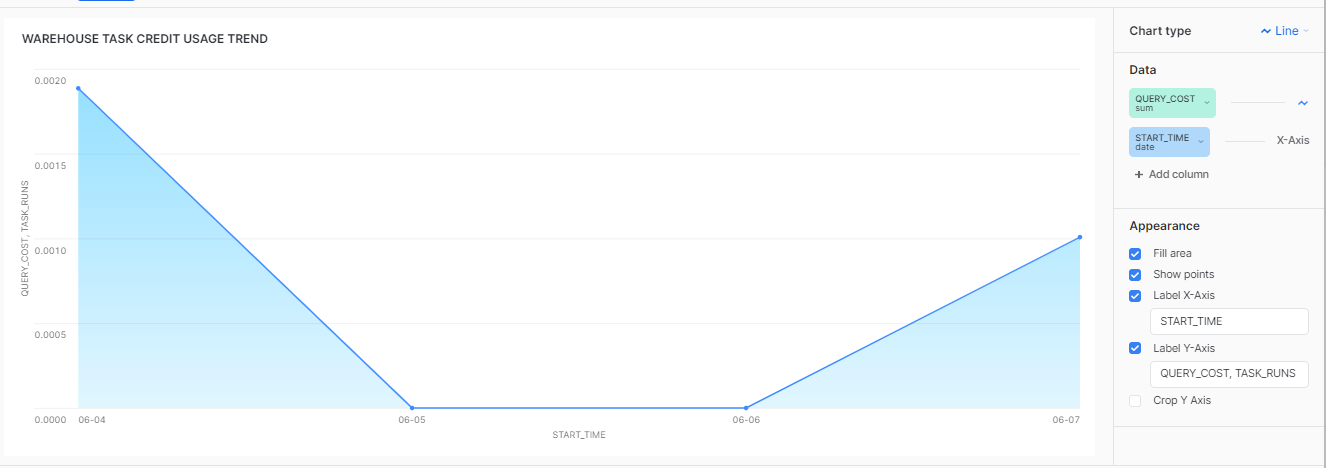
FROM TASK\_MONITOR\_DB.TASK\_MONITOR\_SCHEMA.QUERY\_CREDITS AS qh

INNER JOIN warehouse\_sizes AS wh

ON qh.warehouse\_size=wh.warehouse\_size

WHERE

start\_time =:daterange;



**2.9 VIRTUAL WAREHOUSE WISE TASK CREDIT USAGE:**

WITH

warehouse\_sizes AS (

SELECT 'X-Small' AS warehouse\_size, 1 AS credits\_per\_hour UNION ALL

SELECT 'Small' AS warehouse\_size, 2 AS credits\_per\_hour UNION ALL

SELECT 'Medium' AS warehouse\_size, 4 AS credits\_per\_hour UNION ALL

SELECT 'Large' AS warehouse\_size, 8 AS credits\_per\_hour UNION ALL

SELECT 'X-Large' AS warehouse\_size, 16 AS credits\_per\_hour UNION ALL

SELECT '2X-Large' AS warehouse\_size, 32 AS credits\_per\_hour UNION ALL

SELECT '3X-Large' AS warehouse\_size, 64 AS credits\_per\_hour UNION ALL

SELECT '4X-Large' AS warehouse\_size, 128 AS credits\_per\_hour

)

SELECT

qh.TASK\_NAME,

qh.execution\_time/(1000\*60\*60)\*wh.credits\_per\_hour AS Credits\_Used,

qh.start\_time,

qh.warehouse\_name,

qh.warehouse\_size

FROM TASK\_MONITOR\_DB.TASK\_MONITOR\_SCHEMA.QUERY\_CREDITS AS qh

INNER JOIN warehouse\_sizes AS wh

ON qh.warehouse\_size=wh.warehouse\_size

WHERE

start\_time =:daterange AND TASK\_NAME=:TASK\_NAME;

