# DBT JOBS - COST MONITORING

Monitoring DBT job cost consumption through Snowsight dashboards is crucial for effective cost management and resource optimization. Snowsight provides real-time visibility into the costs associated with running DBT jobs. You can track and analyze the cost implications of individual jobs, projects, or time periods, enabling you to identify areas of high consumption and optimize resource allocation. With Snowsight's data visualization capabilities, you can create custom metrics and visualizations specific to DBT cost monitoring. This allows you to track cost trends, compare expenses across different dimensions, and identify cost-saving opportunities.Snowsight dashboards can be shared with stakeholders, promoting transparency and collaboration. Users can access the dashboards, interact with the data, and contribute to cost optimization efforts.

With below monitoring DBT job cost consumption KPIs you will be empowered to control costs, optimize resource usage, identify cost-saving opportunities, and make data-driven decisions for efficient data transformation processes.

Best Practices:

1. Create a dedicated Service User for the DBT processes.
2. Allocate a separate warehouse for the Service User.
3. Refrain from using the compute warehouse that is assigned for DBT transformations, for any other purpose, to get an accurate insight on the credit details.

## Total Credits Consumed by All the Jobs :

SELECT

round(SUM(CREDITS\_USED),3) AS total\_credits\_consumed

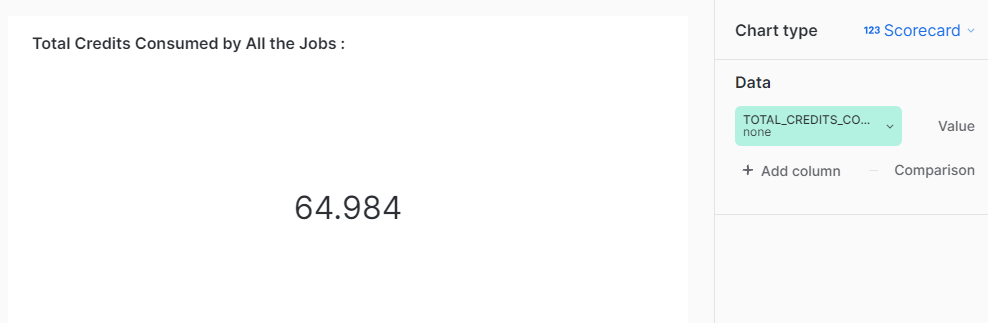
FROM

account\_usage.WAREHOUSE\_METERING\_HISTORY

WHERE

warehouse\_name = :wh\_name ;

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## Total Credits Charged for Cloud Usage :

SELECT

round(SUM(CREDITS\_USED\_CLOUD\_SERVICES),3) AS total\_cloud\_credits\_consumed

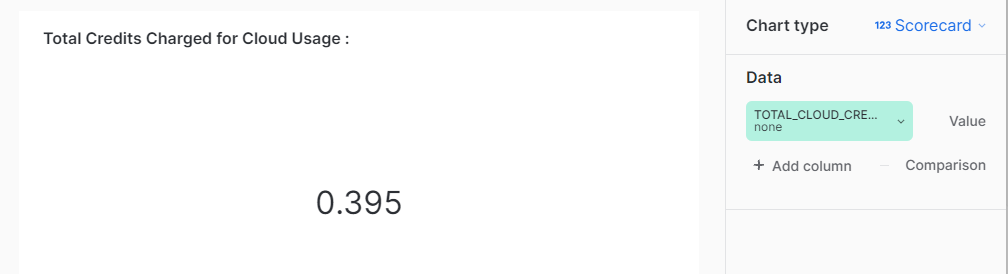
FROM

account\_usage.query\_history

WHERE

user\_name = 'STAGE\_SNOWFLAKE\_DBT';

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## Total Credits Charged for Compute Usage :

SELECT

round(SUM(CREDITS\_USED\_COMPUTE),3) AS total\_compute\_credits\_consumed

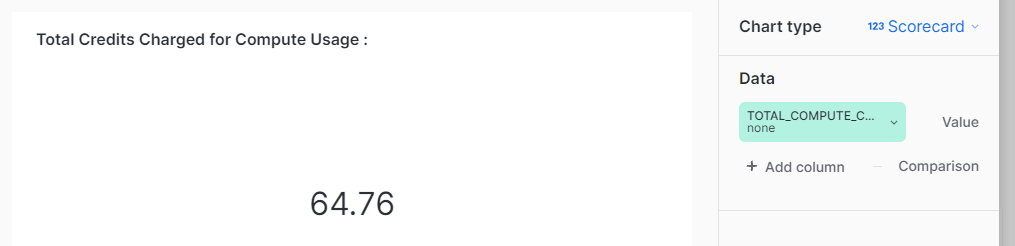
FROM

account\_usage.WAREHOUSE\_METERING\_HISTORY

WHERE

warehouse\_name = :wh\_name;

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## Trend of Credit Consumption by Runs based on Warehouse usage :

SELECT

SUM(CREDITS\_USED)AS total\_credits\_consumed,

SUM(CREDITS\_USED\_COMPUTE)AS total\_compute\_credits\_consumed,

SUM(CREDITS\_USED\_CLOUD\_SERVICES)AS total\_cloud\_credits\_consumed,

to\_date(DATE\_TRUNC('week', start\_time)) as day --:filter

FROM

account\_usage.WAREHOUSE\_METERING\_HISTORY

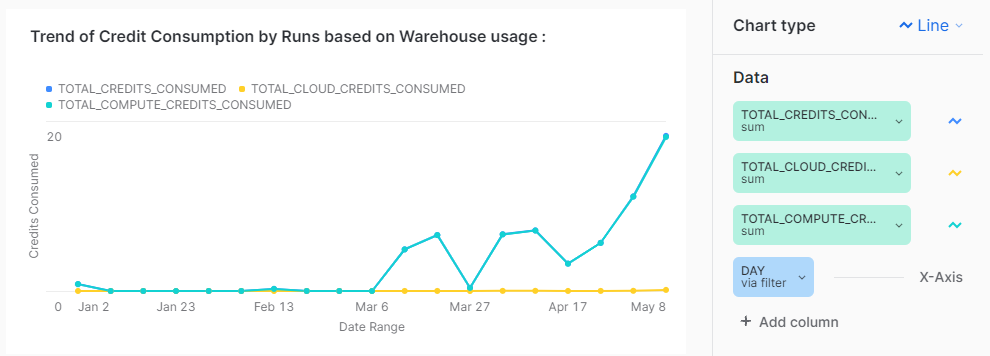
WHERE

warehouse\_name = :wh\_name --:filter

group by day

order by day;

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## Total Credits Consumed by Jobs based on the Warehouse:

SELECT

jla.job\_name,round(sum(credits\_used),3) as total\_credits,

round(sum(CREDITS\_USED\_CLOUD\_SERVICES),3) as cloud\_credits,

round(sum(CREDITS\_USED\_COMPUTE),3) as compute\_credits

FROM "ACCOUNT\_USAGE"."WAREHOUSE\_METERING\_HISTORY" whm

JOIN

"DBT\_COE"."RUNS\_LIST\_ATM" rla

ON

date\_Trunc('hour',rla.started\_At)= date\_Trunc('hour',whm.start\_time)

JOIN

"DBT\_COE"."JOBS\_LIST\_ATM" jla

ON jla.job\_id=rla.job\_id

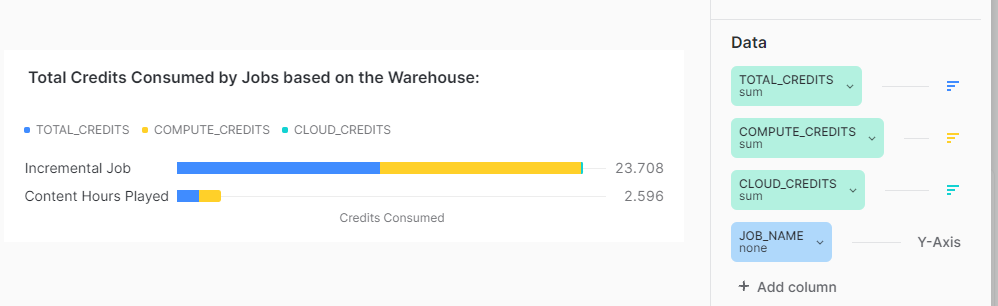
where

warehouse\_name = :wh\_name

group by jla.job\_name

order by job\_name desc limit 5;

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## Credits Consumed based on Query Category :

SELECT sum(w.CREDITS\_USED) as total\_Credits , sum(w.CREDITS\_USED\_COMPUTE) as compute\_credits, sum(w.CREDITS\_USED\_CLOUD\_SERVICES)as cloud\_credits,

CASE

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

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

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

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

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

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

ELSE 'Others'

END AS category

FROM ACCOUNT\_USAGE.QUERY\_HISTORY q

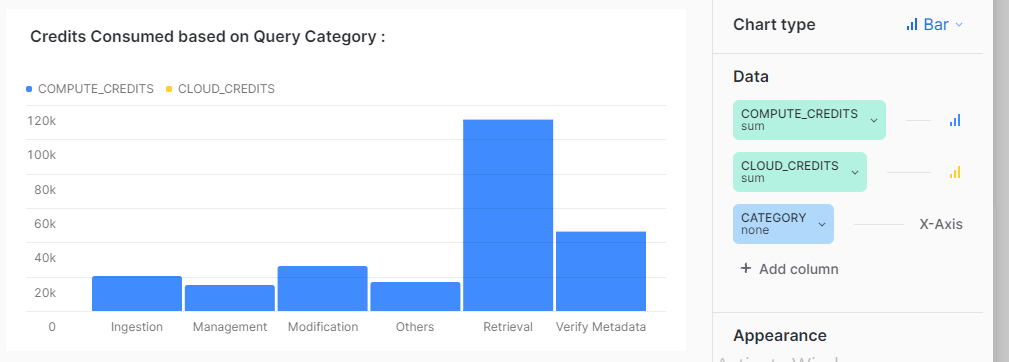
JOIN ACCOUNT\_USAGE.WAREHOUSE\_METERING\_HISTORY w

on q. warehouse\_id=w.warehouse\_id

WHERE q.EXECUTION\_STATUS='SUCCESS'

group by category;

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## 7. Top 10 Credit Consumed Runs based on Warehouse Usage :

SELECT

run\_id,jla.job\_name, rla.project\_id, round(sum(credits\_used),3) as total\_credits,

round(sum(CREDITS\_USED\_CLOUD\_SERVICES),4) as cloud\_credits,

round(sum(CREDITS\_USED\_COMPUTE),3) as compute\_credits,

start\_time

FROM

"DBT\_COE"."JOBS\_LIST\_ATM" jla

JOIN

"DBT\_COE"."RUNS\_LIST\_ATM" rla

ON jla.job\_id=rla.job\_id

JOIN "ACCOUNT\_USAGE"."WAREHOUSE\_METERING\_HISTORY" whm

ON

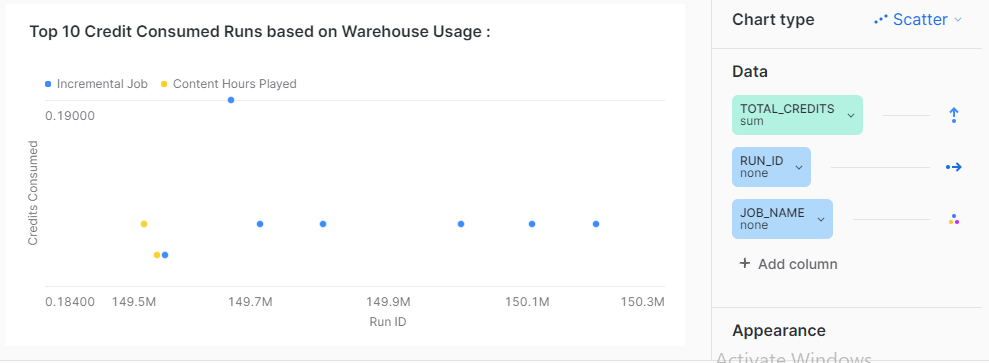
date\_Trunc('hour',rla.started\_At)= date\_Trunc('hour',whm.start\_time)

where warehouse\_name = :wh\_name

group by run\_id ,jla.job\_name, rla.project\_id, start\_time

order by total\_credits desc limit 10;

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**Filters**:

1. Filter Name: Warehouse\_name

Alias: :wh\_name

Query:

select distinct(warehouse\_name) from "ACCOUNT\_USAGE"."QUERY\_HISTORY";