-- Query 1

-- find top top 10 highest revenue generating products

select product\_id, round(cast(sum(sale\_price) as numeric),2) as sales

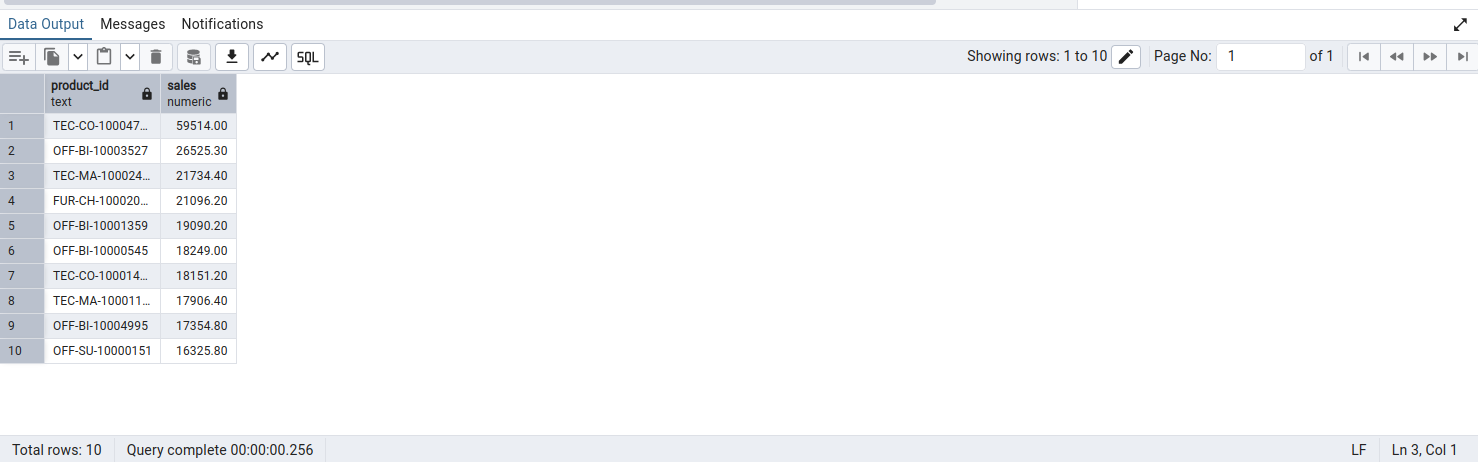
from df\_orders

group by product\_id

order by sales desc

limit 10

– Data Output



– Query 2

-- find top 5 highest selling products in each region

with cte as (select region, product\_id, round(cast(sum(sale\_price) as numeric),2) as sales

, row\_number() over(partition by region order by sum(sale\_price) desc)

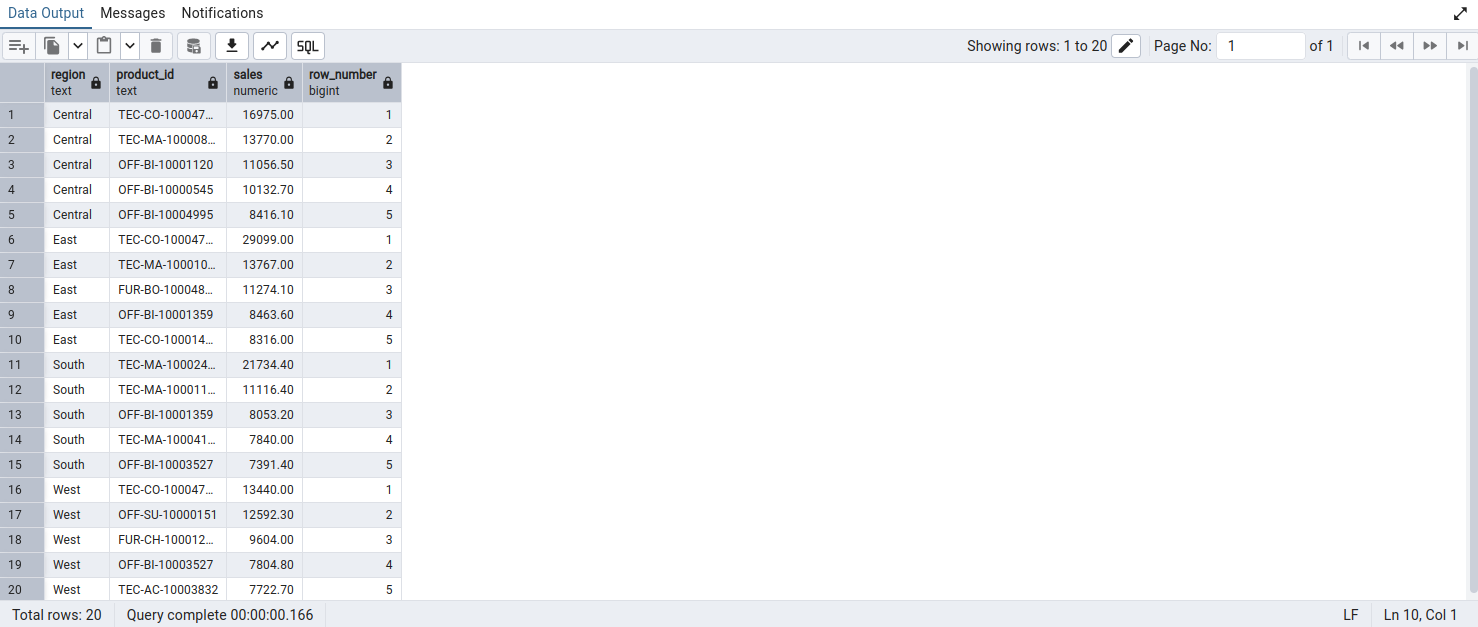
from df\_orders

group by region, product\_id)

select \* from cte

where row\_number <= 5

– Data Output



– Query 3

--find month over month growth comparison for 2022 and 2023 sales eg: jan 2022 vs jan 2023

with cte as (select date\_part('year', cast(order\_date as date)) as order\_year

, date\_part('month', cast(order\_date as date)) as order\_month, sum(sale\_price) as sales

from df\_orders

group by date\_part('year', cast(order\_date as date)), date\_part('month', cast(order\_date as date)))

select order\_month

, round(cast(sum(case when order\_year = 2022 then sales else 0 end) as numeric),2) as sales\_2022

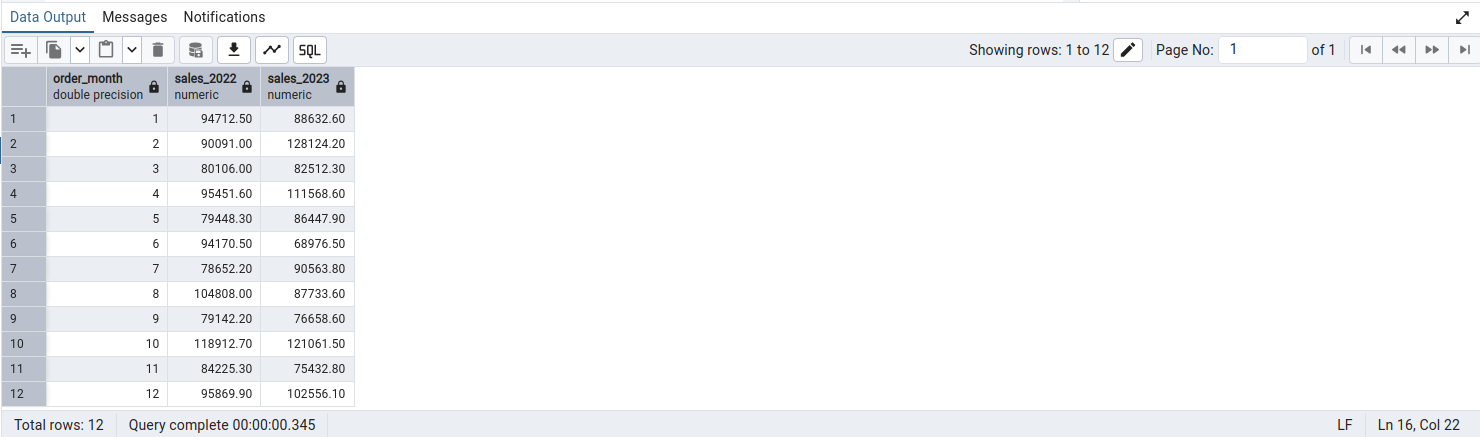
, round(cast(sum(case when order\_year = 2023 then sales else 0 end) as numeric),2) as sales\_2023

from cte

group by order\_month

order by order\_month

– Date Output



--Query 4

--for each category which month had highest sales

with cte as (select category, to\_char(cast(order\_date as date), 'yyyyMM') as order\_year\_month

, round(cast(sum(sale\_price) as numeric),2) as sales

from df\_orders

group by category, to\_char(cast(order\_date as date), 'yyyyMM')

order by category, to\_char(cast(order\_date as date), 'yyyyMM'))

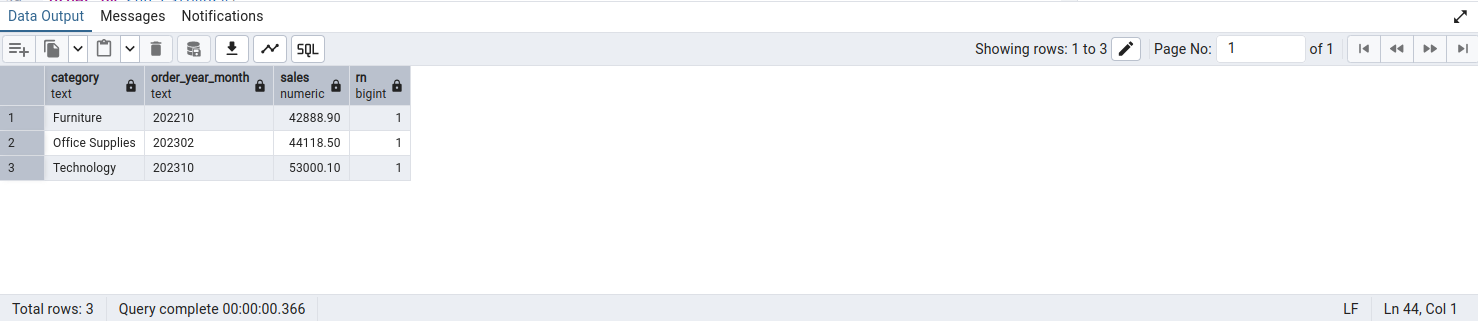
select \* from (

select \*, row\_number() over(partition by category order by sales desc) as rn

from cte)

where rn = 1

--Data Output



--Query 5

--which sub category had highest growth by profit in 2023 compare to 2022

with cte as (select sub\_category, date\_part('year', cast(order\_date as date)) as order\_year

, sum(sale\_price) as sales

from df\_orders

group by sub\_category, date\_part('year', cast(order\_date as date))),

cte2 as(

select sub\_category

, round(cast(sum(case when order\_year = 2022 then sales else 0 end) as numeric),2) as sales\_2022

, round(cast(sum(case when order\_year = 2023 then sales else 0 end) as numeric),2) as sales\_2023

from cte

group by sub\_category

order by sub\_category)

select \*

, round((sales\_2023-sales\_2022) \* 100 / sales\_2022,2) as growth\_perc

from cte2

order by (sales\_2023-sales\_2022) \* 100 / sales\_2022 desc

limit 1

-Data Output

