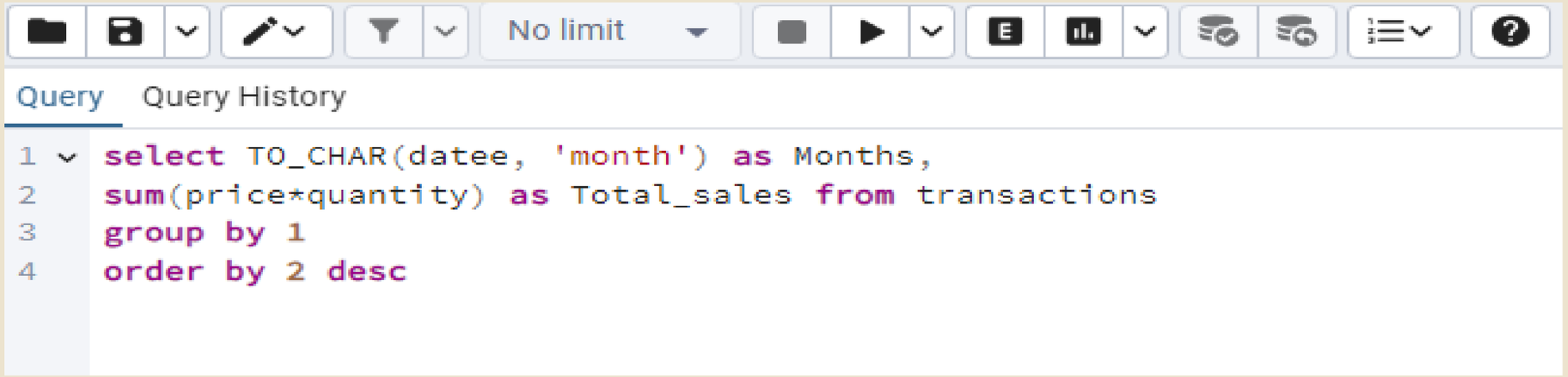
SALES REPORT

Coffee Shop

By Chirag Sharma

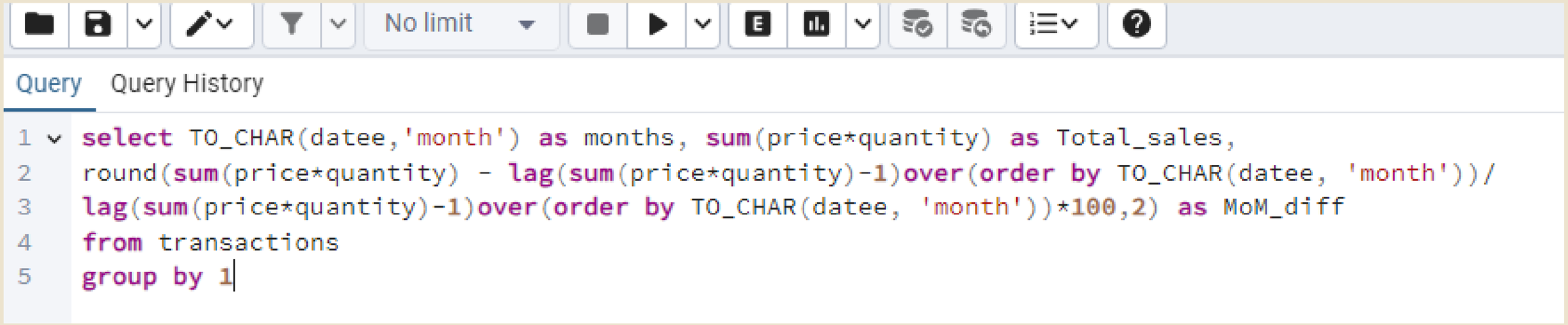
1.Calculate the total Sales by months



Data Output | Messages | Notifications

	months text	total_sales numeric
1	june	166485.88
2	may	156727.76
3	april	118941.08
4	march	98834.68
5	january	81677.74
6	february	76145.19

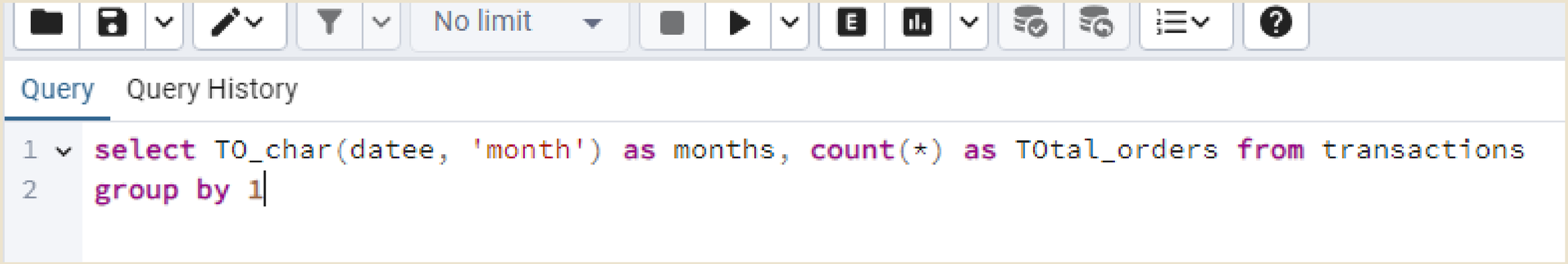
2. Calculate the MOM variations of total sales

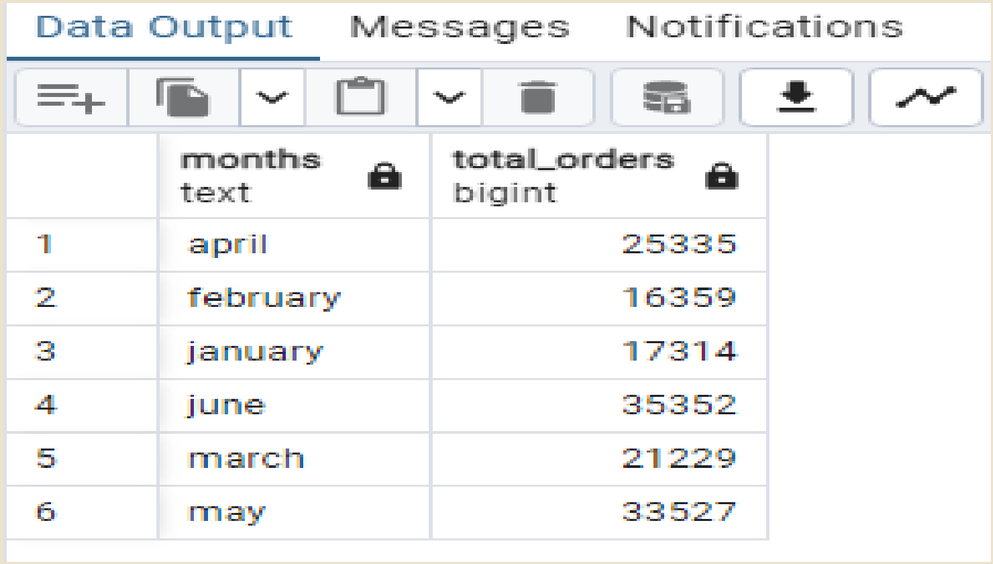


Data Output | Messages | Notifications

	months text	total_sales numeric	mom_diff numeric
1	april	118941.08	[null]
2	february	76145.19	76045.19
3	january	81677.74	81577.74
4	june	166485.88	166385.88
5	march	98834.68	98734.68
6	may	156727.76	156627.76

3. Calculate the total Orders by months





	months text	total_orders bigint
1	april	25335
2	february	16359
3	january	17314
4	june	35352
5	march	21229
6	may	33527

4. Calculate the MOM variations of total Orders

No limit

Query | Query History

```
1  select TO_CHAR(datee,'month') as months, Count(*) as Total_Orders,
2  round(Count(*) - lag(Count(*)-1)over(order by TO_CHAR(datee, 'month'))/
3  lag(Count(*)-1)over(order by TO_CHAR(datee, 'month'))*100,2) as MoM_diff
4  from transactions
5  group by 1
```

Data Output | Messages | Notifications

	months text	total_orders bigint	mom_diff numeric
1	april	25335	[null]
2	february	16359	16259.00
3	january	17314	17214.00
4	june	35352	35252.00
5	march	21229	21129.00
6	may	33527	33427.00

5. Calculate the total Quantity by months

Query | Query History

```
1 select TO_char(datee, 'month') as months, Sum(quantity) AS TOtal_Quantity from transactions
2 group by 1
```

Data Output | Messages | Notifications

	months text	total_quantity bigint
1	april	36469
2	february	23550
3	january	24870
4	june	50942
5	march	30406
6	may	48233

6. Calculate the MOM variations of total Quantity

Query | Query History

```
1  select TO_CHAR(datee,'month') as months, Sum(quantity) AS TOtal_Quantity,
2  round(Sum(quantity) - lag(Sum(quantity)-1)over(order by TO_CHAR(datee, 'month'))/
3  lag(Sum(quantity)-1)over(order by TO_CHAR(datee, 'month'))*100,2) as MoM_diff
4  from transactions
5  group by 1
```

Data Output | Messages | Notifications

	months text	total_quantity bigint	mom_diff numeric
1	april	36469	[null]
2	february	23550	23450.00
3	january	24870	24770.00
4	june	50942	50842.00
5	march	30406	30306.00
6	may	48233	48133.00

7. Calculate total sales, orders, quantity for one date

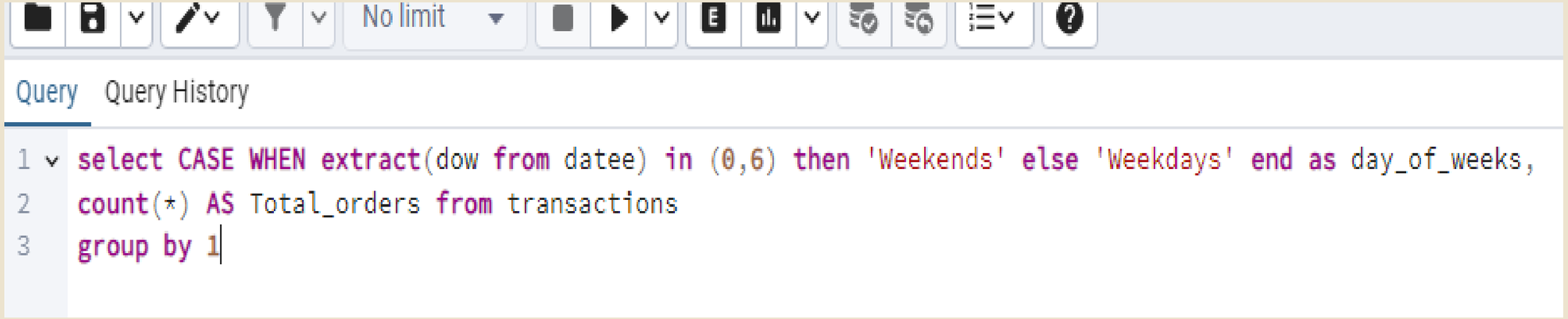
Query | Query History

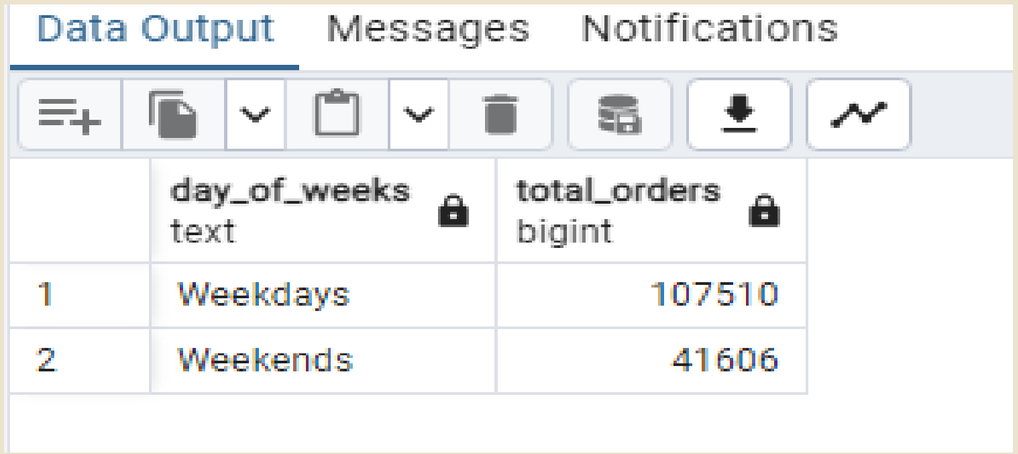
```
1  -- Total Sales in April 20
2  select datee, sum(price*quantity) as Total_sales, count(*) AS Total_orders,
3  sum(quantity) as Total_quantity from transactions
4  where extract(month from datee) = 4 AND
5  extract(day from datee) = 20
6  group by 1
7
```

Data Output | Messages | Notifications

	datee date	total_sales numeric	total_orders bigint	total_quantity bigint
1	2023-04-20	3924.78	854	1177

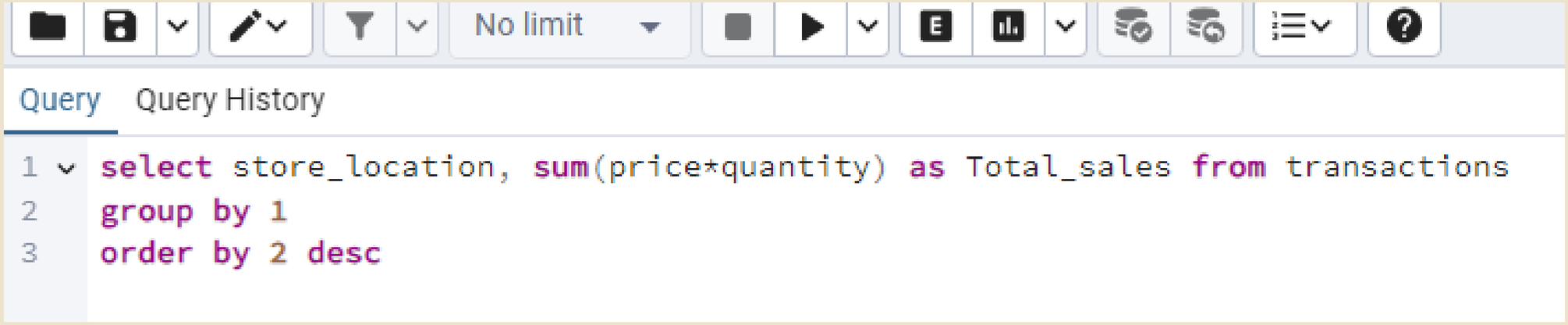
8. Calculate the total_orders by weekdays and weekends

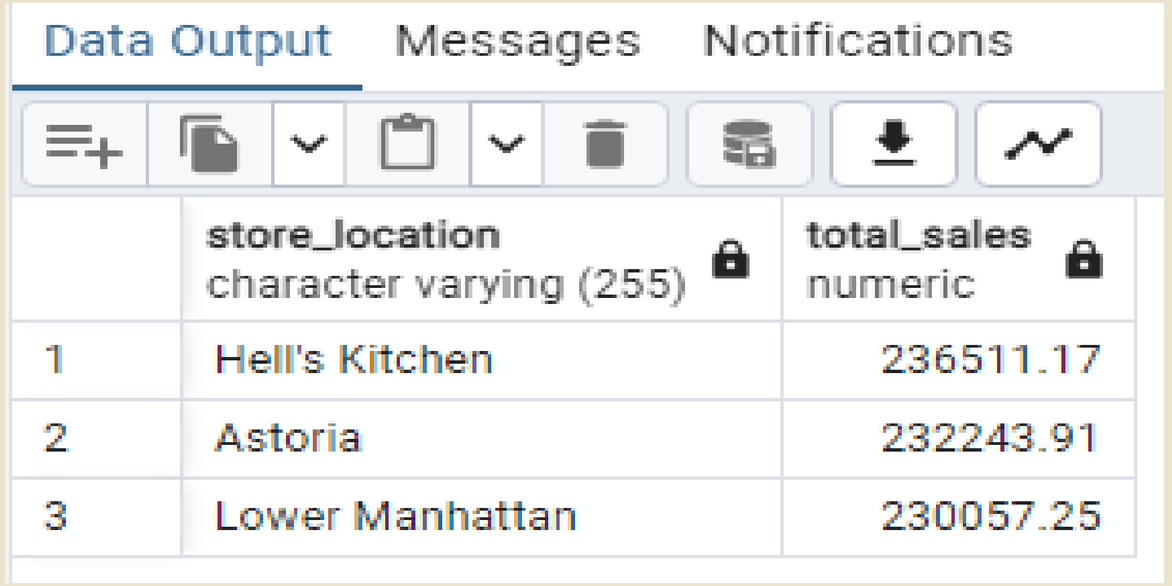




	day_of_weeks text	total_orders bigint
1	Weekdays	107510
2	Weekends	41606

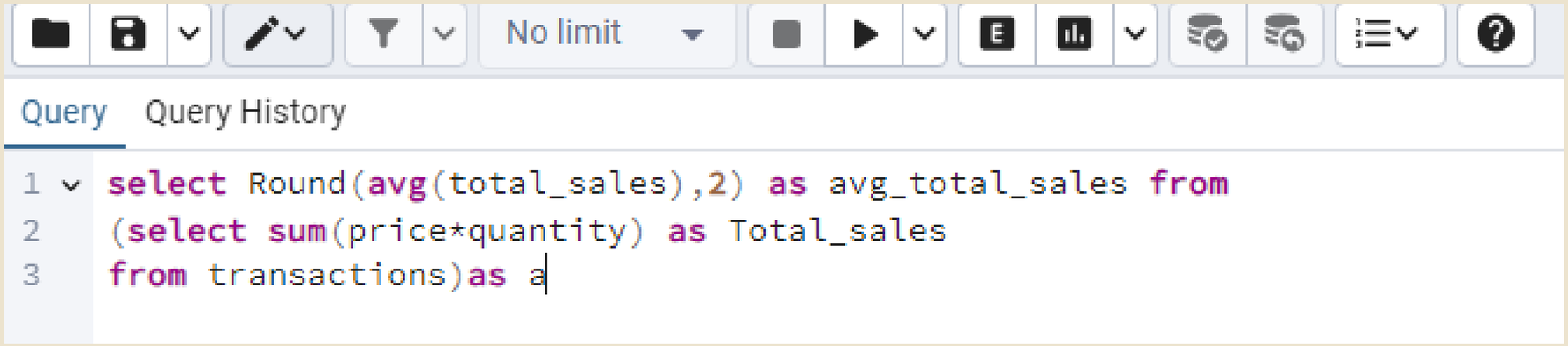
9. Calculate the total sales by store location

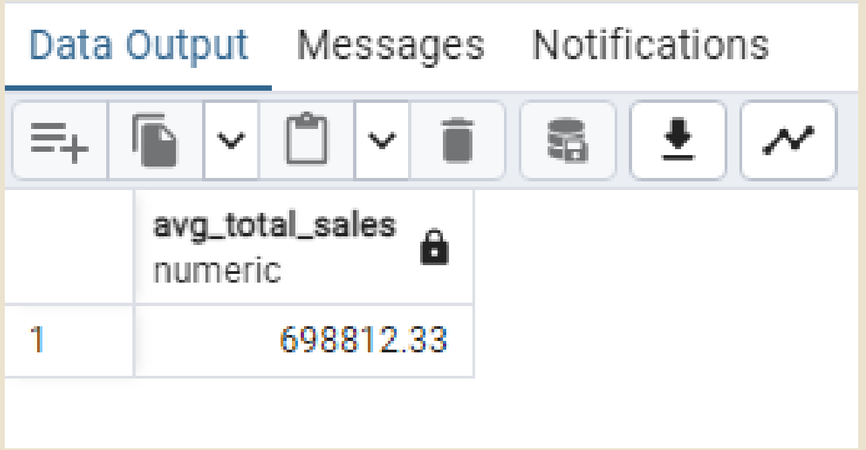




	store_location character varying (255)	total_sales numeric
1	Hell's Kitchen	236511.17
2	Astoria	232243.91
3	Lower Manhattan	230057.25

10. Calculate the avg_total_sales





11. Day by day sales of February, Total sales of February, Total average sales of February

```sql
-- Day by Day sales of February
select TO_CHAR(datee, 'day') AS Months, sum(price*quantity) as Total_sales from transactions
where extract(month from datee) = 2
group by 1
-- Total Sales of February
select TO_CHAR(datee, 'month') AS Months, sum(price*quantity) as Total_sales from transactions
where extract(month from datee) = 2
group by 1
-- Total Avg Sales of February
select months, round(avg(total_sales),2) AS Total_avg_sales from
(select TO_CHAR(datee, 'month') AS Months, sum(price*quantity) as Total_sales from transactions
where extract(month from datee) = 2
group by 1)as d
group by 1
```

Data Output | Messages | Notifications

	months text	total_sales numeric
1	friday	10734.50
2	monday	11092.51
3	saturday	10767.47
4	sunday	11375.05
5	thursday	10887.07
6	tuesday	10203.11
7	wednesday	11085.48

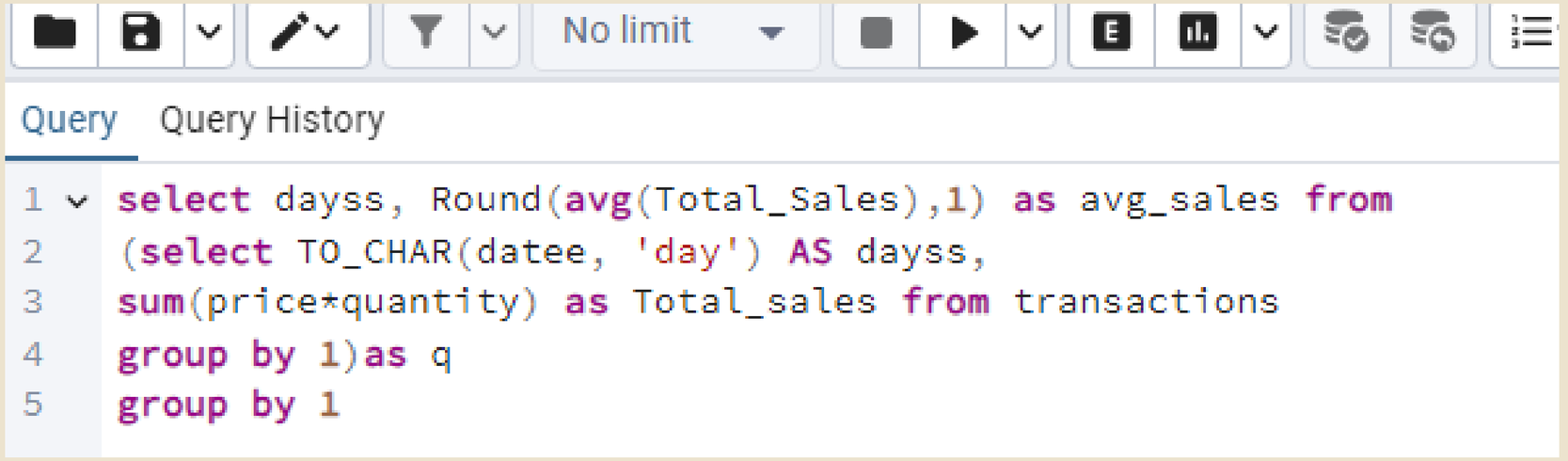
Data Output | Messages | Notifications

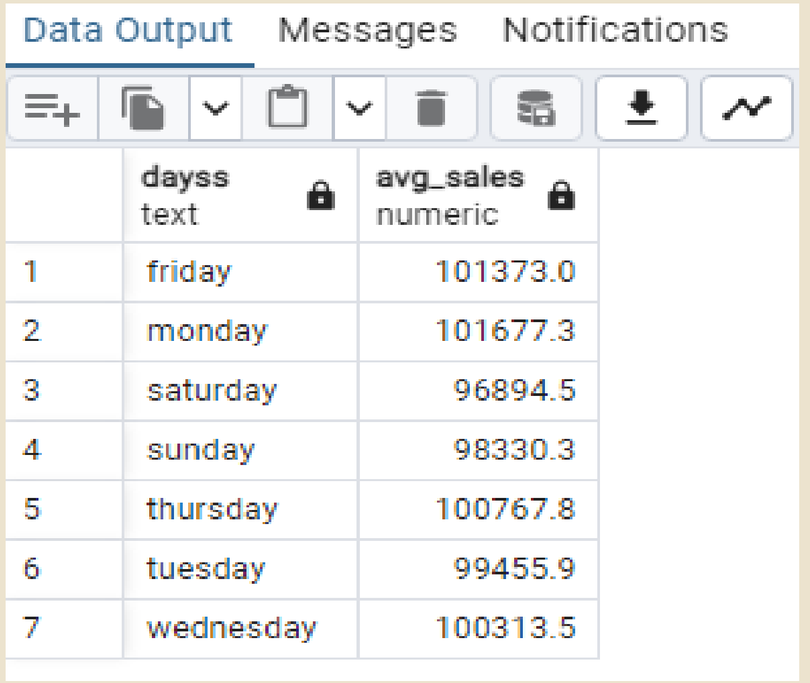
	months text	total_sales numeric
1	february	76145.19

Data Output | Messages | Notifications

	months text	total_avg_sales numeric
1	february	76145.19

12. Calculate the day-wise avg sales





	dayss text	avg_sales numeric
1	friday	101373.0
2	monday	101677.3
3	saturday	96894.5
4	sunday	98330.3
5	thursday	100767.8
6	tuesday	99455.9
7	wednesday	100313.5

13. Calculate the sales status as below average or above average

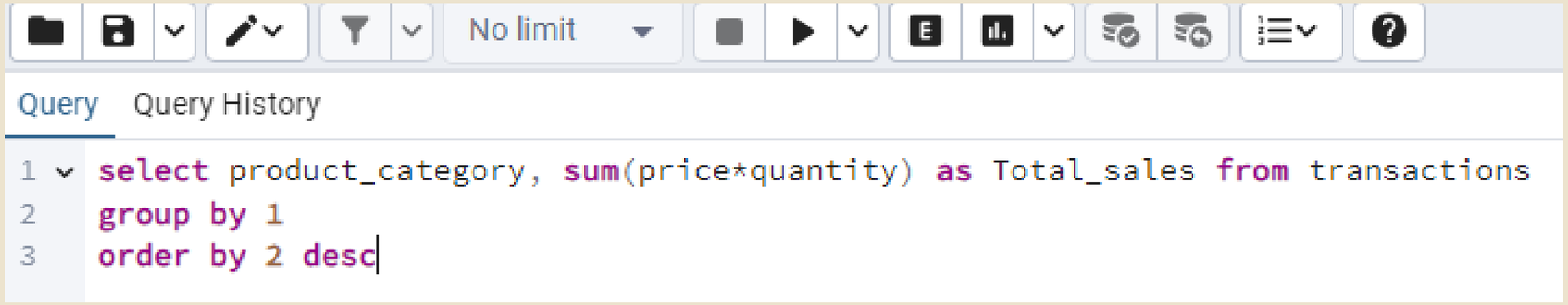
Query | Query History

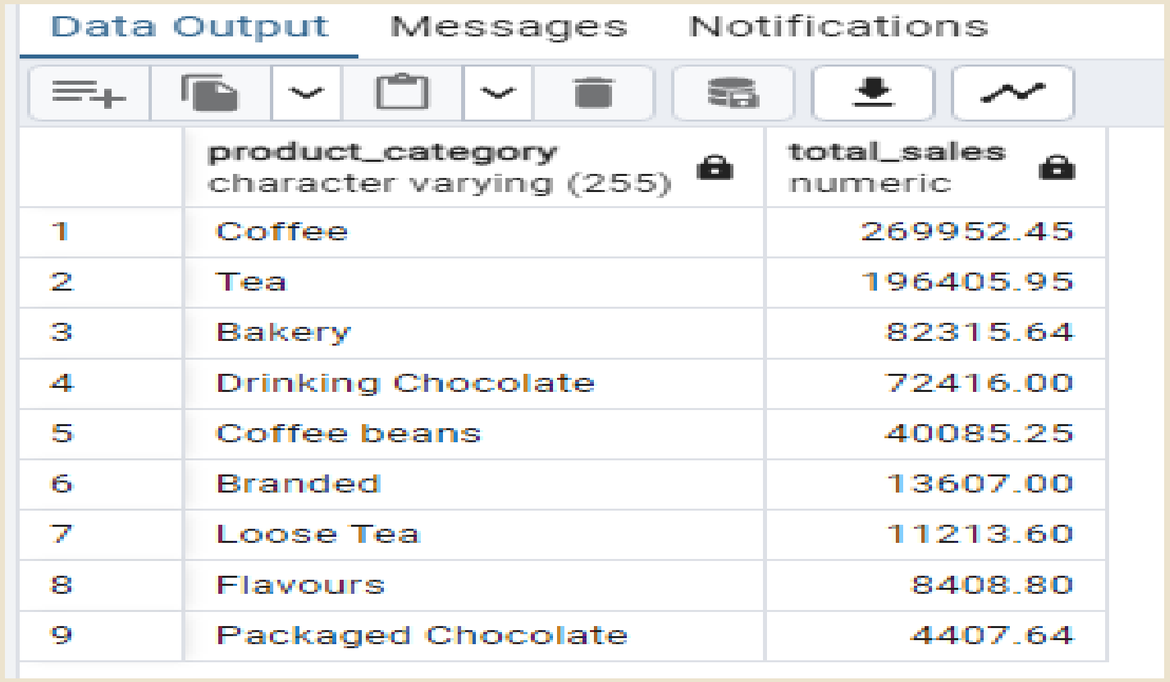
```sql
select day_of_weeks,
Case when total_sales > avg_sales then 'Above Average'
when total_sales < avg_sales then 'Below Average' else 'Equal to average'
end as Sales_status,
Total_sales from
(select TO_CHAR(datee, 'day') as day_of_weeks, sum(price*quantity) as TOtal_sales,
avg(sum(price*quantity))over() as avg_sales
from transactions
group by 1)
```

Data Output | Messages | Notifications

	day_of_weeks text	sales_status text	total_sales numeric
1	friday	Above Average	101373.00
2	monday	Above Average	101677.28
3	saturday	Below Average	96894.48
4	sunday	Below Average	98330.31
5	thursday	Above Average	100767.78
6	tuesday	Below Average	99455.94
7	wednesday	Above Average	100313.54

14. Calculate the Total sales according to product category





	product_category character varying (255)	total_sales numeric
1	Coffee	269952.45
2	Tea	196405.95
3	Bakery	82315.64
4	Drinking Chocolate	72416.00
5	Coffee beans	40085.25
6	Branded	13607.00
7	Loose Tea	11213.60
8	Flavours	8408.80
9	Packaged Chocolate	4407.64

15. Top 10 product By sales

No limit

Query | Query History

```
1  select product_type as name, sum(price*quantity) as Total_sales from transactions
2  group by 1
3  order by 2 desc
4  limit 10
5
```

Data Output | Messages | Notifications

	name character varying (255)	total_sales numeric
1	Barista Espresso	91406.20
2	Brewed Chai tea	77081.95
3	Hot chocolate	72416.00
4	Gourmet brewed coffee	70034.60
5	Brewed Black tea	47932.00
6	Brewed herbal tea	47539.50
7	Premium brewed coffee	38781.15
8	Organic brewed coffee	37746.50
9	Scone	36866.12
10	Drip coffee	31984.00

16. Total sales of January by days, Total sales of April by hours

No limit

Query | Query History

```sql
-- Total sales of January by days
select TO_CHAR(datee, 'day') as dayss, sum(price*quantity) as Total_sales
from transactions
where extract(month from datee) = 1
Group by 1

-- Total Sales Of april by Hours
select extract(hour from transaction_time) as Hours, sum(price*quantity) as Total_sales
from transactions
where extract(month from datee) = 4
group by 1
```

Data Output | Messages | Notifications

	dayss text	total_sales numeric
1	friday	10653.28
2	monday	13238.68
3	saturday	10422.11
4	sunday	12742.52
5	thursday	10523.26
6	tuesday	13739.53
7	wednesday	10358.36

Data Output | Messages | Notifications

	hours numeric	total_sales numeric
1	6	3772.28
2	7	10500.67
3	8	13723.07
4	9	14609.25
5	10	15450.93
6	11	8216.87
7	12	6902.49
8	13	6553.33
9	14	6933.05
10	15	7144.65
11	16	7065.31
12	17	7012.89
13	18	5763.00
14	19	4823.96
15	20	469.33