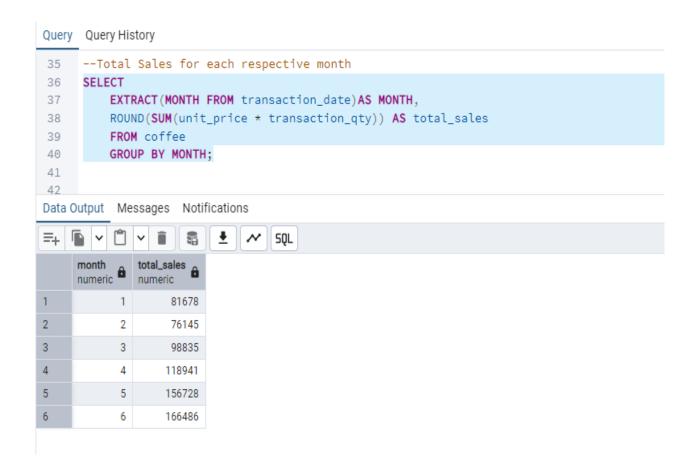
Coffee Shop Analysis

> KPI

1. Total Sales Analysis:

Total sales

• Total sales by Month

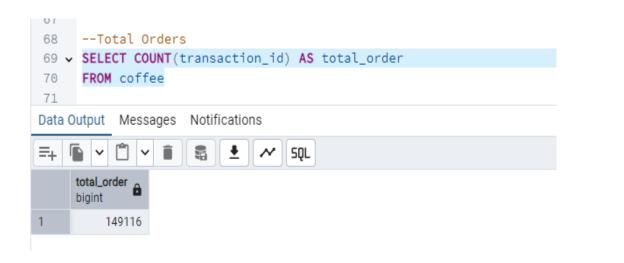


Total sales KPI- MOM difference and MOM growth

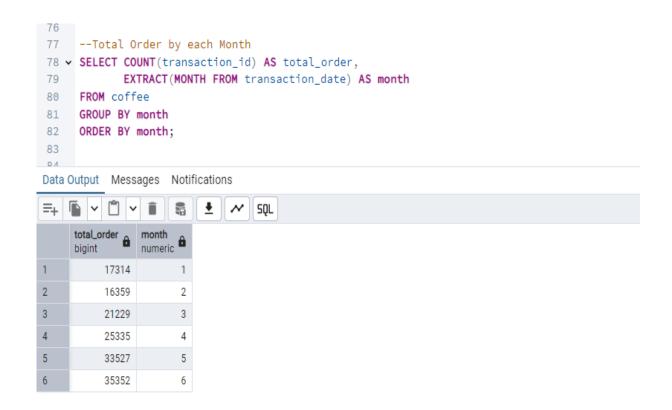
```
Query Query History
44 v WITH monthly_sales AS (
45
          SELECT
              EXTRACT(MONTH FROM transaction_date) AS month,
46
47
              ROUND(SUM(unit_price * transaction_qty)) AS total_sales
48
          FROM coffee
          WHERE EXTRACT(MONTH FROM transaction_date) IN (4, 5)
49
          GROUP BY EXTRACT(MONTH FROM transaction_date)
50
51
    )
    SELECT
52
53
          month,
         total_sales,
          ROUND (
55
             (total_sales - LAG(total_sales) OVER (ORDER BY month)) * 100.0 /
56
57
             LAG(total_sales) OVER (ORDER BY month),
59
         ) AS mon_increase_percentage
    FROM monthly_sales
60
     ORDER BY month;
Data Output Messages Notifications
          SQL
    month numeric & total_sales numeric & mon_increase_percentage numeric
                  118941
                                         [null]
2
                                        31.77
           5
                  156728
```

2. Total Order Analysis:

Total sales



Total Order by Month



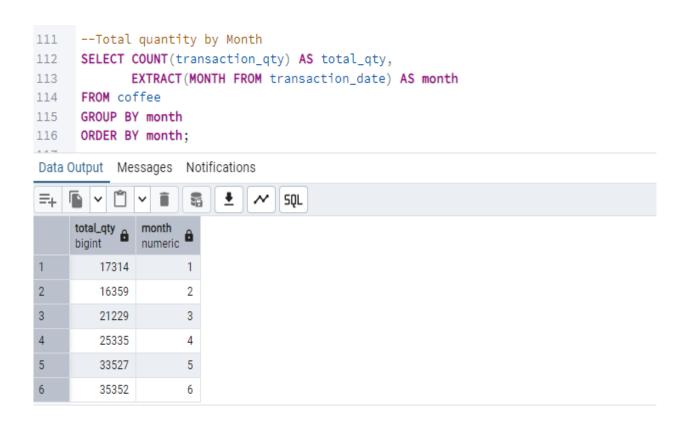
Total Order KPI- MOM difference and MOM growth

```
85 • WITH monthly_order AS (
 86
         SELECT
 87
              COUNT(transaction_id) AS total_order,
              EXTRACT(MONTH FROM transaction_date) AS month
 88
 89
          FROM coffee
          WHERE EXTRACT(MONTH FROM transaction_date) IN (4, 5)
 90
 91
          GROUP BY EXTRACT(MONTH FROM transaction_date)
 92
 93
    SELECT
 94
        month,
 95
         total_order,
 96
          ROUND (
              (total_order - LAG(total_order) OVER (ORDER BY month)) * 100.0 /
97
              LAG(total_order) OVER (ORDER BY month),
98
 99
100
          ) AS mon_increase_percentage
101
      FROM monthly_order
102
      ORDER BY month;
Data Output Messages Notifications
    =+
                     8
                                  SQL
     total_order
               numeric &
     bigint
1
          17314
                      1
                      2
          16359
```

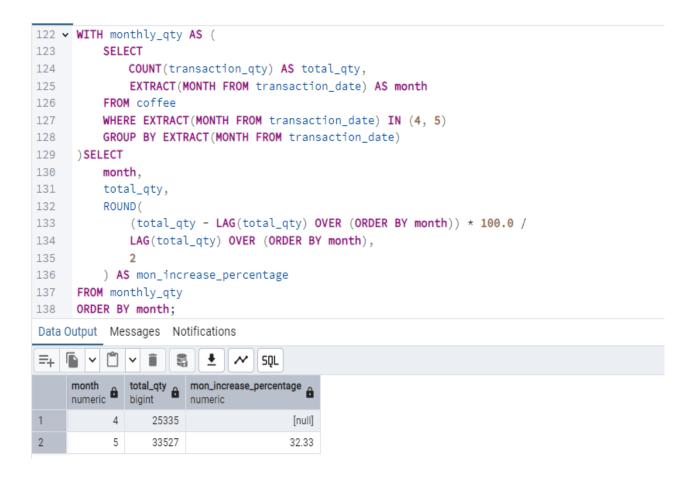
3. Total Quantity Analysis:

Total Quantity

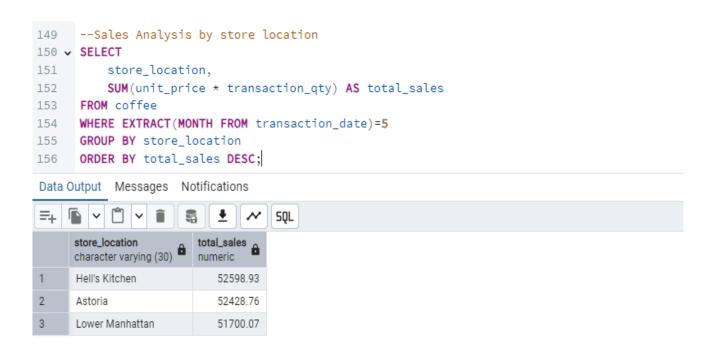
• Total Quantity by Month



• Total Quantity KPI- MOM difference and MOM growth



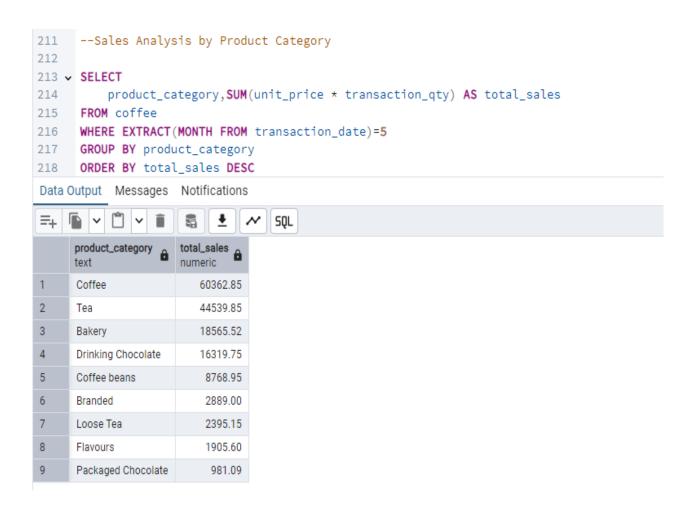
Total Sales by store location:



Total Sales over specific Date:

```
142 SELECT
143
           ROUND(SUM(unit_price * transaction_qty)/1000,1) AS Total_sale,
144
           SUM(transaction_qty) AS Total_qty,
145
          COUNT(transaction_id) AS Total_qty
     FROM coffee
146
147
      WHERE
148
           transaction_date = '2023-05-18';
149
Data Output Messages Notifications
                                    SQL.
=+
     total_sale
                          total_qty
                total_qty
      numeric
                bigint
                          bigint
                    1659
                              1192
            5.6
```

Sales Analysis by Product Category:



Top 5 products by sales:

```
.-- -- ------ -, -----
221
     SELECT
222
           product_type,SUM(unit_price * transaction_qty) AS total_sales
223 FROM coffee
224 WHERE EXTRACT(MONTH FROM transaction_date)=5 AND product_category= 'Coffee'
225 GROUP BY product_type
     ORDER BY total_sales DESC
226
      LIMIT 10
227
228
Data Output Messages Notifications
                                     SQL
      product_type
                        numeric
      text
1
      Barista Espresso
                           20423.75
2
      Gourmet brewed cof...
                           15559.20
3
      Premium brewed cof...
                            8739.20
      Organic brewed coffee
                            8350.20
5
      Drip coffee
                            7290.50
```

Sales Analysis by Days and Hours:

```
287
288 SELECT
          CASE
289
              WHEN EXTRACT(DOW FROM transaction_date)=2 THEN 'Monday'
290
              WHEN EXTRACT(DOW FROM transaction_date)=3 THEN 'Tuesday'
291
292
              WHEN EXTRACT(DOW FROM transaction_date)=4 THEN 'Wednesday'
              WHEN EXTRACT(DOW FROM transaction_date)=5 THEN 'Thursday'
293
              WHEN EXTRACT(DOW FROM transaction_date)=6 THEN 'Friday'
294
              WHEN EXTRACT(DOW FROM transaction_date)=7 THEN 'Saturday'
295
              ELSE 'Sunday'
296
297
          END AS Day_of_week,
          ROUND(SUM(unit_price * transaction_qty)) AS total_sales
298
299
          FROM
              coffee
300
301
          WHERE
302
               EXTRACT(MONTH FROM transaction_date)=5
303
          GROUP BY
                  Day_of_week;
304
```

	day_of_week text	total_sales numeric
1	Friday	20795
2	Monday	25347
3	Sunday	44526
4	Thursday	20341
5	Tuesday	25465
6	Wednesday	20254

```
241 SELECT

EXTRACT(HOUR FROM transaction_time) AS hour_no,

SUM(unit_price * transaction_qty) AS total_sales

FROM coffee

WHERE EXTRACT(MONTH FROM transaction_date)=5

GROUP BY hour_no

ORDER BY hour_no DESC;
```

SQL

Data Output Messages Notifications

