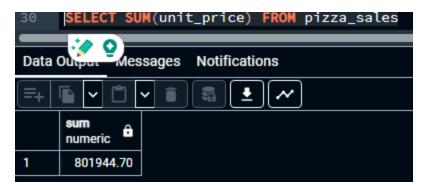
The Pizza Store Sales Power BI Dashboard

We have a dataset from a pizza store. We will analyze this dataset using SQL on Postgres Server. And after drawing insights we will use Microsoft Power BI to visualize our findings.

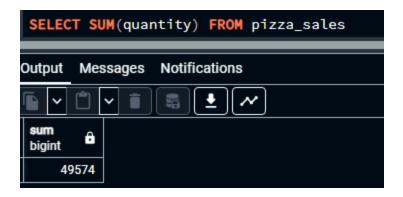
1. Total Revenue: The sum of the total price of all pizza orders.



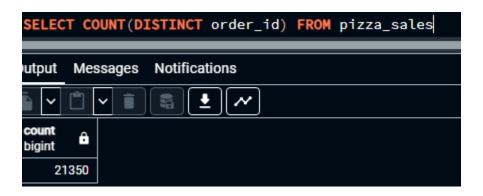
2. Average Order Value: The average amount spent per order, calculated by dividing the total revenue by the total number of orders.



3. Total Pizzas Sold: The sum of the quantities of all pizzas sold.



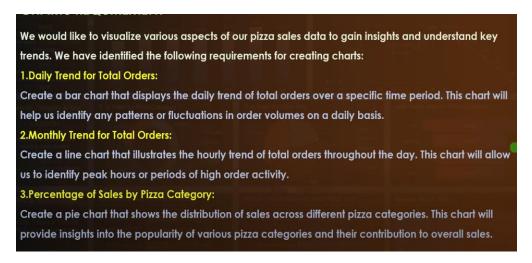
4. Total Orders: The total number of orders placed.



5. Average Pizzas Per Order: The average number of pizzas sold per order, calculated by dividing the total number of pizzas sold by the total number of orders.



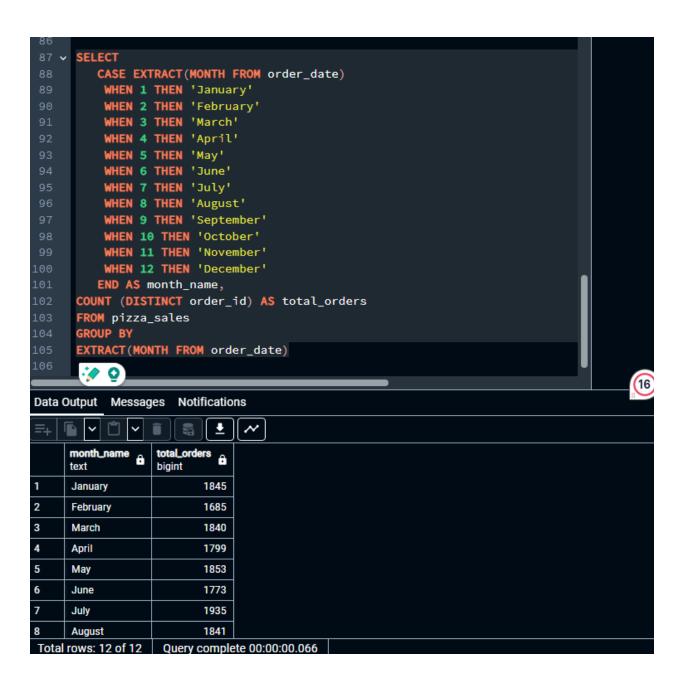
Let's fire some queries to get values for drawing Charts:



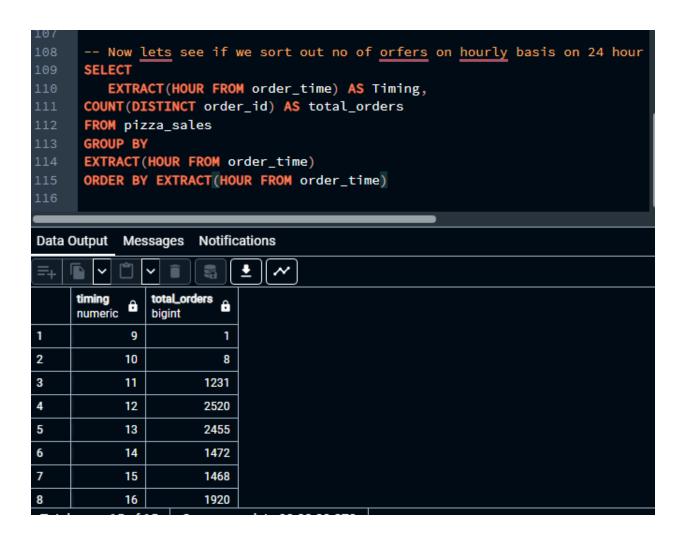
6. Daily trend for total orders-



7. Now let's see how the number of orders vary for every month in a year-



8. Now let's see on a 24-hour cycle how many orders are there.



9. For the sake of readability lets change the first column by firing these queries

```
--The result we have got does not really look appealing let's rename
--the first column here so that the readability can be improved
SELECT
    CASE EXTRACT (HOUR FROM order_time)
   WHEN 1 THEN '1AM'
   WHEN 2 THEN '2AM'
   WHEN 3 THEN '3AM'
   WHEN 4 THEN '4AM'
   WHEN 5 THEN '5AM'
   WHEN 6 THEN '6AM'
   WHEN 7 THEN '7AM'
   WHEN 8 THEN '8AM'
   WHEN 9 THEN '9AM'
   WHEN 10 THEN '10AM'
   WHEN 11 THEN '11AM'
   WHEN 12 THEN '12AM'
   WHEN 13 THEN '1PM'
   WHEN 14 THEN '2PM'
   WHEN 15 THEN '3PM'
   WHEN 16 THEN '4PM'
   WHEN 17 THEN '5PM'
   WHEN 18 THEN '6PM'
   WHEN 19 THEN '7PM'
   WHEN 20 THEN '8PM'
   WHEN 21 THEN '9PM'
   WHEN 22 THEN '10PM'
   WHEN 23 THEN '11PM'
   WHEN 24 THEN '12PM'
END AS order_time,
COUNT (DISTINCT order_id) AS total_orders
FROM pizza_sales
GROUP BY EXTRACT(HOUR FROM order_time)
```

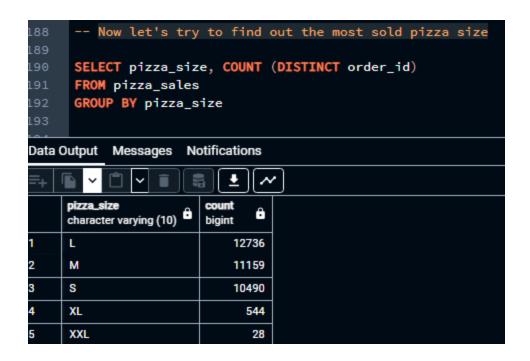
and this is the result we are getting-

$\underline{}$		<u> </u>
	order_time text	total_orders bigint
1	9AM	1
2	10AM	8
3	11AM	1231
4	12AM	2520
5	1PM	2455
6	2PM	1472
7	3РМ	1468
8	4PM	1920
9	5PM	2336
10	6PM	2399
11	7PM	2009
12	8PM	1642
13	9PM	1198
14	10PM	663
15	11PM	28

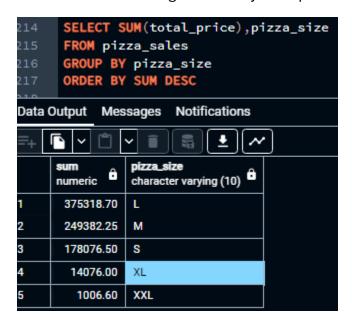
10. Now let's find out what is the distribution of pizza sales category wise



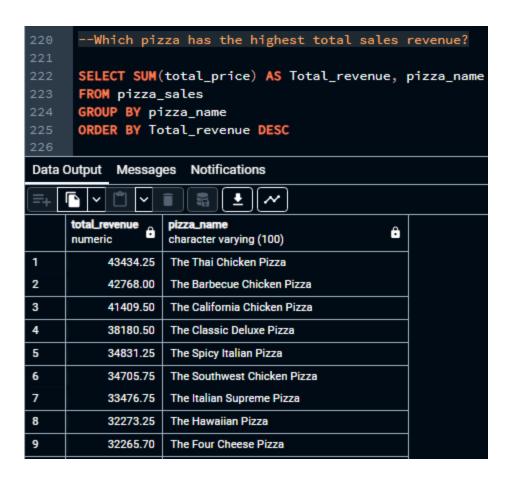
- 11. Now let's try to find out the most sold pizza size



12. What is the total revenue generated by each pizza size (e.g., small, medium, large)?



13. Which pizza has the highest total sales revenue?



14. Sales (quantity wise) of different pizza sizes across 12 months

```
SELECT
   SUM(quantity) AS total_quantity,
   pizza_size,
   TO_CHAR
    (TO_TIMESTAMP
      (EXTRACT
          (MONTH FROM order_date)::TEXT,
                                        'MM'),
                                             'Month')
                                               AS month_name,
EXTRACT(MONTH FROM order_date) AS month_number
   pizza_sales
GROUP BY
   pizza_size,
   month_name,
   month_number
ORDER BY
   pizza_size,
   month_number;
```

```
"month_number"
"total_quantity"
                "pizza_size" "month_name"
1640 "L"
           "January "
                      1
1521 "L"
           "February"
1651 "L"
           "March "
                      3
1541 "L"
           "April "
                      4
1668 "L"
           "May "
                      5
           "June "
1590 "L"
                      6
1697 "L"
           "July "
                      7
1527 "L"
           "August "
1511 "L"
           "September" 9
1485 "L"
           "October "
1623 "L"
           "November" 11
1502 "L"
           "December " 12
1311 "M"
           "January "
1210 "M"
           "February"
1313 "M"
           "March "
                      3
1390 "M"
           "April "
                      4
```

```
1338
      "M"
            "May
                         5
1335
      "M"
                         6
            "June
1396
      "M"
            "July "
                         7
1331
      "M"
            "August "
                         8
1188
      "M"
            "September" 9
1253
      "M"
            "October "
                         10
1337
      "M"
            "November" 11
1233
      "M"
            "December" 12
1229
      "S"
            "January "
1189
      "S"
            "February"
                         2
1253
      "S"
            "March "
                         3
1151
      "S"
            "April "
                         4
1265
      "S"
            "May
                         5
1131
      "S"
            "June "
                         6
                         7
```

- 1249 "S" "July " 1264 "S" "August "
- 1152 "S" "September" 9
- . 1101 "S" "October " 10
- 1258 "S" "November " 11
- 1161 "S" "December " 12
- 50 "XL" "January " 1
- 38 "XL" "February " 2
- 41 "XL" "March " 3
- 65 "XL" "April " 4
- 54 "XL" "May " 5
- 49 "XL" "June " 6
- 50 "XL" "July " 7
- 44 "XL" "August " 8 36 "XL" "September" 9
- 36 "XL" "September" 942 "XL" "October " 10
- 45 "XL" "November" 11
- 38 "XL" "December " 12
- 2 "XXL" "January " 1
- 3 "XXL" "February" 2
- 3 "XXL" "March " 3
- 4 "XXL" "April " 4
- 3 "XXL" "May " 5
- 2 "XXL" "June " 6

```
2 "XXL" "August " 8
3 "XXL" "September" 9
2 "XXL" "October " 10
3 "XXL" "November " 11
1 "XXL" "December " 12
```

15. sales (total quantity) of different pizza category across 12 months

"March "

"April "

"June "

"July "

"August "

"October "

"September" 9

"May

3

4

5

6

7

8

10

994

924

939

910

963

934

900

832

"Chicken"

"Chicken"

"Chicken"

"Chicken"

"Chicken"

"Chicken"

"Chicken"

"Chicken"

```
SELECT
    SUM(quantity) AS no_of_order,
    pizza_category,
    TO_CHAR(TO_TIMESTAMP(EXTRACT(MONTH FROM order_date)::TEXT,'MM'),'Month') AS month_name,
    EXTRACT(MONTH FROM order_date) AS month_number
    pizza_sales
 GROUP BY
    pizza_category,
    month_name,
    month_number
 ORDER BY
    pizza_category,
    month_number
"no_of_order""pizza_category"
                                    "month_name"
                                                          "month_number"
913
       "Chicken"
                     "January "
                                    1
                     "February"
875
       "Chicken"
                                    2
```

- 981 "Chicken" "November " 11
- 885 "Chicken" "December " 12
- 1257 "Classic" "January " 1
- 1178 "Classic" "February" 2
- 1236 "Classic" "March " 3
- 1253 "Classic" "April " 4
- 1324 "Classic" "May " 5
- 1199 "Classic" "June " 6
- 1331 "Classic" "July " 7
- 1283 "Classic" "August " 8
- 1202 "Classic" "September" 9
- 1181 "Classic" "October " 10
- 1262 "Classic" "November " 11
- 1182 "Classic" "December " 12
- 1044 "Supreme" "January " 1
- 964 "Supreme" "February " 2
- 991 "Supreme" "March " 3
- 1013 "Supreme" "April " 4

"May

"June "

"September" 9

5

6

"Supreme"

"Supreme"

"Supreme"

1045

1040

877

- 1041 "Supreme" "July " 7
- 991 "Supreme" "August " 8
- 998 "Supreme" "October " 10
- 1050 "Supreme" "November " 11
- 933 "Supreme" "December " 12

1018	"Veggie"	"January "	1
944	"Veggie"	"February "	2
1040	"Veggie"	"March "	3
961	"Veggie"	"April "	4
1020	"Veggie"	"May "	5
958	"Veggie"	"June "	6
1057	"Veggie"	"July "	7
960	"Veggie"	"August "	8
911	"Veggie"	"September"	9
872	"Veggie"	"October "	10
973	"Veggie"	"November"	11
935	"Veggie"	"December "	12

16. Total no of orders (not quantity) across 12 months

```
SELECT
SUM(DISTINCT order_id),
TO_CHAR(TO_TIMESTAMP(EXTRACT(MONTH FROM order_date)::TEXT,'MM'),'Month') AS month_name,
EXTRACT(MONTH FROM order_date) AS month_number

FROM
pizza_sales

GROUP BY
month_name,
month_number

ORDER BY
month_number
```

	sum bigint	month_name text	month_number numeric
1	1702935	January	1
2	4529280	February	2
3	8188920	March	3
4	11279730	April	4
5	15001888	May	5
6	17568657	June	6
7	22761405	July	7
8	25131491	August	8
9	25582722	September	9
10	28073353	October	10
11	33643904	November	11
12	34457640	December	12

17. Total no of orders quantity wise across 12 months

```
SELECT
SUM(quantity) AS No_of_orders,
TO_CHAR(TO_TIMESTAMP(EXTRACT(MONTH FROM order_date)::TEXT,'MM'),'Month') AS month_name,
EXTRACT(MONTH FROM order_date) AS month_number

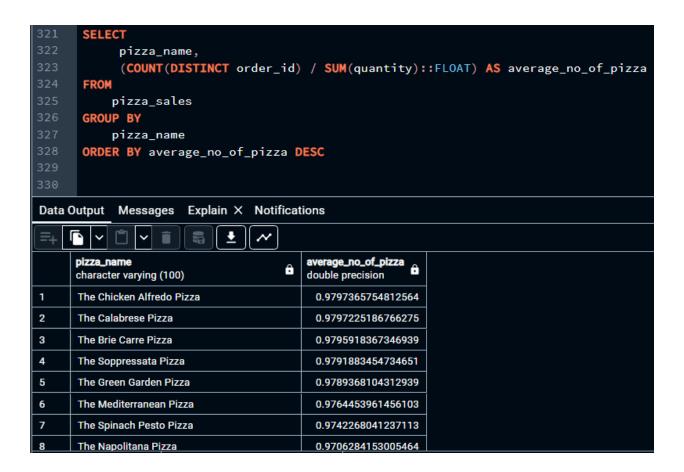
FROM
pizza_sales

GROUP BY
month_name,
month_number

ORDER BY
month_number
```

	no_of_orders bigint	month_name text	month_number numeric
1	4232	January	1
2	3961	February	2
3	4261	March	3
4	4151	April	4
5	4328	May	5
6	4107	June	6
7	4392	July	7
8	4168	August	8
9	3890	September	9
10	3883	October	10
11	4266	November	11
12	3935	December	12

18. Which pizza_name has the highest average quantity ordered per order?



- 19. Weekend sales vs. weekday sales (Total revenue)
- -- -- Weekend sales vs. weekday sales (No. Of orders)