

PIZZA SALES REPORT - POWER BI, SQL

The raw data (excel) is imported into SQL, leveraging order by, group by, count, sum, distinct, for structured insights.

The processed data is imported into Power bi for designing dashboard which includes cards, bar charts, funnel charts, navigator buttons to enhance business insights.

SQL QUERIES:

The database oegano is created.

The table pizza is created and values are imported into the pizza table.

Select * from pizza_sales; - it is used to view the entire table.

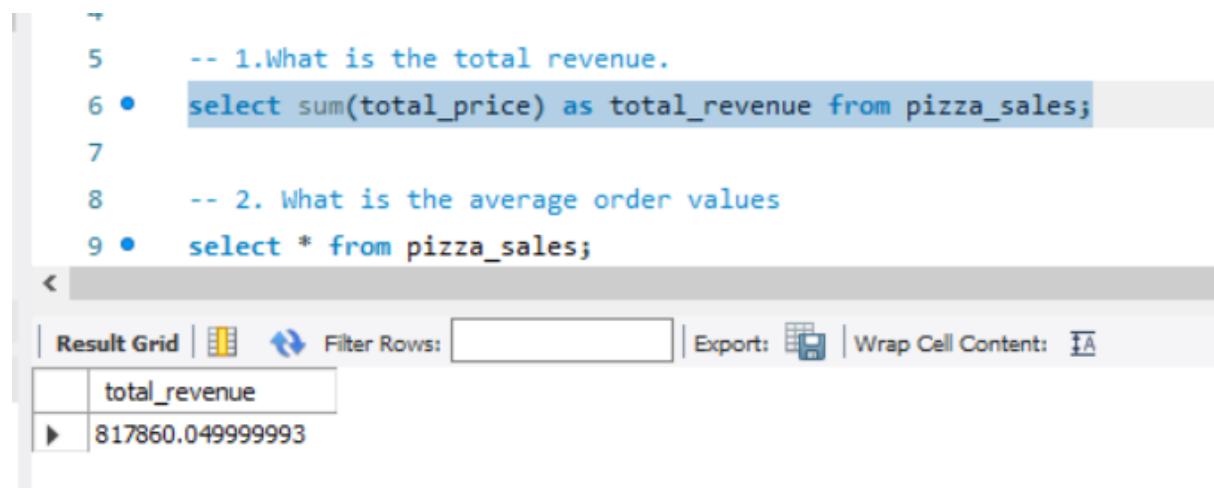
```
create database oegano;
```

```
create table pizza;
```

```
select * from pizza_sales;
```

-- 1. What is the total revenue.

```
select sum(total_price) as total_revenue from pizza_sales;
```



```
5  -- 1.What is the total revenue.
6  •  select sum(total_price) as total_revenue from pizza_sales;
7
8  -- 2. What is the average order values
9  •  select * from pizza_sales;
```

The screenshot shows a SQL query editor with the following queries:

```
-- 1.What is the total revenue.
select sum(total_price) as total_revenue from pizza_sales;

-- 2. What is the average order values
select * from pizza_sales;
```

Below the editor, the Power BI interface shows the 'Result Grid' for the first query. The grid has one column named 'total_revenue' and one row with the value '817860.049999993'.

total_revenue
817860.049999993

-- 2. What are the average order values.

```
select * from pizza_sales;
```

```
select sum(total_price)/ count (distinct order_id) as avg_order_value from pizza_sales;
```

```
8      -- 2. What is the average order values
9      • select * from pizza_sales;
10     • select sum(total_price)/ count(distinct order_id) as avg_order_value from pizza_sales;
11
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

avg_order_value
38.307262295081635

-- 3. What are the total pizzas sold.

select * from pizza_sales;

select sum(quantity) as total_pizza_sold from pizza_sales;

```
12      -- 3. What are the total pizzas sold
13     • select * from pizza_sales;
14     • select sum(quantity) as total_pizza_sold from pizza_sales;
15
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

total_pizza_sold
49574

-- 4. What is the total order placed.

select * from pizza_sales;

select count (Distinct order_id) as total_order from pizza_sales;

```
16      -- 4. What are the total order placed
17     • select * from pizza_sales;
18     • select count(Distinct order_id) as total_order from pizza_sales;
19
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

total_order
21350

-- 5. What are the average pizzas per order.

```
select * from pizza_sales;
```

```
select sum(quantity) / count (distinct order_id) from pizza_sales;
```

```
20      -- 5. What are the average pizzas per order
21 •    select * from pizza_sales;
22 •    select sum(quantity) / count(distinct order_id) from pizza_sales;
23
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	sum(quantity) / count(distinct order_id)			
▶	2.3220			

-- 6. What is the Daily trend for total orders.

```
select * from pizza_sales;
```

```
SELECT DATE(order_date) AS order_day, COUNT(*) AS total_orders FROM pizza_sales
```

```
GROUP BY DATE(order_date)
```

```
ORDER BY order_day;
```

```
24      -- 6. Daily trend for total orders
25 •    select * from pizza_sales;
26 •    SELECT DATE(order_date) AS order_day, COUNT(*) AS total_orders FROM pizza_sales
27      GROUP BY DATE(order_date)
28      ORDER BY order_day;
29
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	order_day	total_orders		
▶	2015-01-01	161		
	2015-01-02	160		
	2015-01-03	154		
	2015-01-04	106		
	2015-01-05	121		
	2015-01-06	144		
	2015-01-07	133		
	2015-01-08	171		
	2015-01-09	123		

Result 13

-- 7. What is the Monthly trend for total orders.

```
SELECT MONTHNAME (order_date) AS MonthName, COUNT(distinct order_id) AS total_orders  
FROM pizza_sales
```

```
GROUP BY MONTH(order_date), MONTHNAME(order_date)
```

```
ORDER BY MONTH (order_date);
```

```
30 -- 7. Monthly trend for total orders  
31 • SELECT MONTHNAME(order_date) AS MonthName, COUNT(distinct order_id) AS total_orders FROM pizza_sales  
32 GROUP BY MONTH(order_date), MONTHNAME(order_date)  
33 ORDER BY MONTH(order_date) ;  
34  
35 -- 8. Top 5 sellers by total pizzas sold.
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

MonthName	total_orders
January	1845
February	1685
March	1840
April	1799
May	1853
June	1773
July	1935
August	1841
September	1661

Result 14 x

```
29  
30 -- 7. Monthly trend for total orders  
31 • SELECT MONTHNAME(order_date) AS MonthName, COUNT(distinct order_id) AS total_orders FROM pizza_sales  
32 GROUP BY MONTH(order_date), MONTHNAME(order_date)  
33 ORDER BY MONTH(order_date) ;  
34  
35 -- 8. Top 5 sellers by total pizzas sold.
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

MonthName	total_orders
May	1853
June	1773
July	1935
August	1841
September	1661
October	1646
November	1792
December	1680

-- 8. What is the Top 5 sellers by total pizzas sold.

```
select pizza_name, sum(quantity) as total_pizzas_sold from pizza_sales
```

```
where month(order_date) =8
```

```
group by pizza_name
```

```
order by sum(quantity) asc
```

```

35 -- 8. Top 5 sellers by total pizzas sold.
36 • select pizza_name, sum(quantity) as total_pizzas_sold from pizza_sales
37 where month(order_date) =8
38 group by pizza_name
39 order by sum(quantity) asc
40

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	pizza_name	total_pizzas_sold
▶	The Brie Carre Pizza	43
	The Calabrese Pizza	73
	The Mediterranean Pizza	77
	The Italian Vegetables Pizza	78
	The Soppressata Pizza	79
	The Chicken Pesto Pizza	81
	The Green Garden Pizza	81
	The Chicken Alfredo Pizza	83
	The Spinach Supreme Pizza	84

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	pizza_name	total_pizzas_sold
	The Spinach Supreme Pizza	84
	The Spinach Pesto Pizza	86
	The Pepper Salami Pizza	109
	The Greek Pizza	112
	The Five Cheese Pizza	113
	The Italian Capocollo Pizza	117
	The Prosciutto and Arugula...	121
	The Vegetables + Vegetabl...	122
	The Mexicana Pizza	124

Result 15 x

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	pizza_name	total_pizzas_sold
	The Mexicana Pizza	124
	The Pepperoni, Mushroom,...	133
	The Four Cheese Pizza	139
	The Napolitana Pizza	139
	The Spinach and Feta Pizza	140
	The Spicy Italian Pizza	155
	The Sicilian Pizza	160
	The Big Meat Pizza	160
	The Italian Supreme Pizza	167

Result 15 x

Result Grid		
Filter Rows: <input type="text"/>		
Export: Wrap Cell Content:		
	pizza_name	total_pizzas_sold
	The Italian Supreme Pizza	167
	The Southwest Chicken Pizza	170
	The Thai Chicken Pizza	182
	The Barbecue Chicken Pizza	187
	The Hawaiian Pizza	201
	The Classic Deluxe Pizza	208
	The Pepperoni Pizza	213
	The California Chicken Pizza	231

-- 9. What is the Percentage of sales by pizza size.

```
select pizza_size,sum(total_price) as total_revenue,sum(total_price)*100 /
```

```
(select sum(total_price) from pizza_sales) as PCT
```

```
from pizza_sales
```

```
group by pizza_size
```

```
order by PCT desc
```

```
41 -- 9. Percentage of sales by pizza size.
```

```
42 select pizza_size,sum(total_price) as total_revenue,sum(total_price)*100 /
```

```
43 (select sum(total_price) from pizza_sales) as PCT
```

```
44 from pizza_sales
```

```
45 group by pizza_size
```

```
46 order by PCT desc
```

```
47
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: Wrap Cell Content:			
	pizza_size	total_revenue	PCT
▶	L	375318.70000000087	45.8903329487743
	M	249382.25	30.492044451859723
	S	178076.49999999843	21.773468455880682
	XL	14076	1.7210768517181052
	XXL	1006.6000000000005	0.12307729176892906

-- 10. What is the top 5 best sellers by revenue, total quantity and total orders.

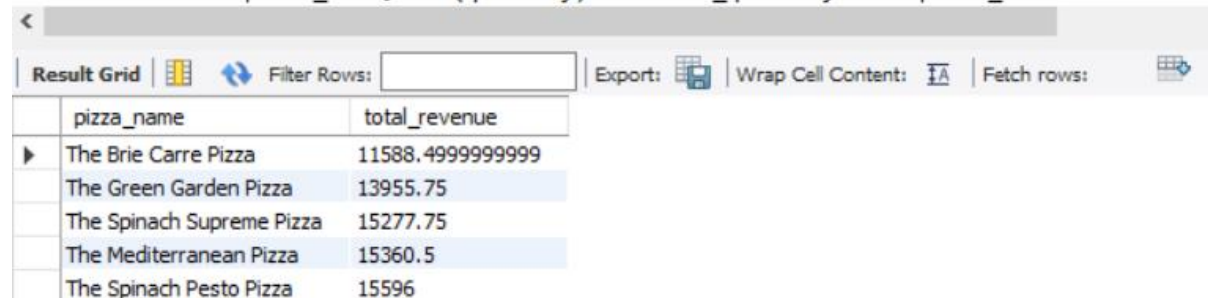
select * from pizza_sales

select pizza_name, sum(total_price) as total_revenue from pizza_sales

group by pizza_name

order by total_revenue limit 5;

```
--
48 -- 10. top 5 best sellers by revenue, total quantity and total orders
49 select * from pizza_sales
50 select pizza_name, sum(total_price) as total_revenue from pizza_sales
51 group by pizza_name
52 order by total_revenue limit 5;
53 • select pizza_name, sum(quantity) as total_quantity from pizza_sales
```



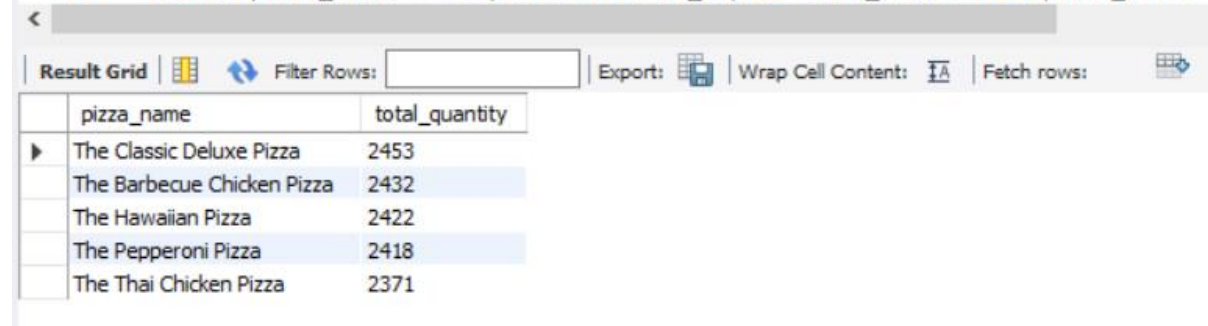
pizza_name	total_revenue
The Brie Carre Pizza	11588.4999999999
The Green Garden Pizza	13955.75
The Spinach Supreme Pizza	15277.75
The Mediterranean Pizza	15360.5
The Spinach Pesto Pizza	15596

select pizza_name, sum(quantity) as total_quantity from pizza_sales

group by pizza_name

order by total_quantity desc limit 5;

```
48 -- 10. top 5 best sellers by revenue, total quantity and total orders
49 sel Execute the selected portion of the script or everything, if there is no selection
50 select pizza_name, sum(total_price) as total_revenue from pizza_sales
51 group by pizza_name
52 order by total_revenue limit 5;
53 • select pizza_name, sum(quantity) as total_quantity from pizza_sales
54 group by pizza_name
55 order by total_quantity desc limit 5;
56 • select pizza_name, count(distinct order_id) as total_orders from pizza_sales
```



pizza_name	total_quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

```
select pizza_name, count (distinct order_id) as total_orders from pizza_sales
group by pizza_name
order by total_orders limit 5;
```

```
56 • select pizza_name, count(distinct order_id) as total_orders from pizza_sales
57     group by pizza_name
58     order by total_orders limit 5;
59
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	pizza_name	total_orders
▶	The Brie Carre Pizza	480
	The Mediterranean Pizza	912
	The Calabrese Pizza	918
	The Spinach Supreme Pizza	918
	The Chicken Pesto Pizza	938