



Pizza Sales Analysis: Uncovering Trends



Welcome to my pizza sales analysis project. Through SQL queries, joins, ranks and sub queries, I've explored pizza sales data to uncover insights into consumption patterns, most common pizza types, peak sales time, revenue details and much more.

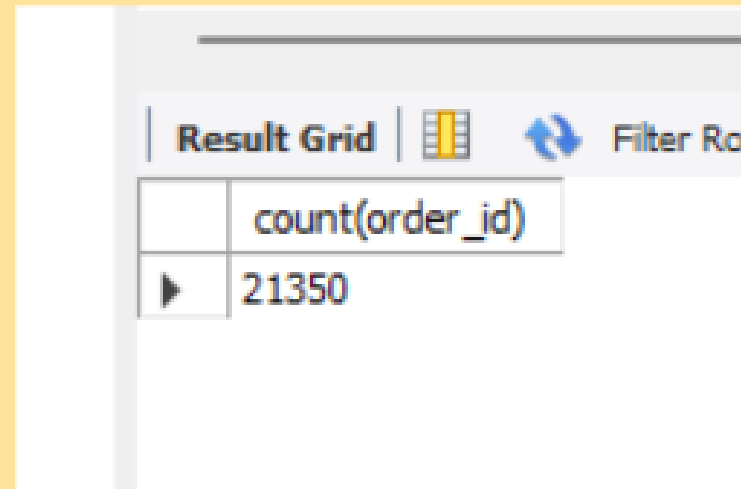
Tables to be served:

1. Orders
2. Pizzas
3. Order_details
4. Pizza_types



Retrieve the total number of orders placed

```
select count(order_id) from orders;
```



A screenshot of a database query result grid. The grid has a header row with the column name 'count(order_id)' and a single data row with the value '21350'. Above the grid, there are icons for 'Result Grid', a grid icon, a refresh icon, and a 'Filter Rows' label.

	count(order_id)
▶	21350

Calculate the total revenue generated from pizza sales.

- **SELECT**

```
SUM(order_details.quantity * pizzas.price) AS total_sales
```

FROM

```
order_details
```

JOIN

```
pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid



Filter R

	total_sales
▶	817860.049999993

Identify the highest priced pizza

```
• SELECT  
  pizza_types.name, pizzas.price  
FROM  
  pizza_types  
  JOIN  
  pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
order by pizzas.price desc limit 1;
```

Result Grid			Filter Rows:
	name	price	
▶	The Greek Pizza	35.95	


Identify the most common pizza type ordered

```
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

Result Grid			Filter Rows
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

List the top 5 most ordered pizza types along with their quantities



```
• SELECT
    pt.name, SUM(od.quantity) AS total_quantity
FROM
    pizza_types AS pt
    JOIN
    pizzas ON pt.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details AS od ON od.pizza_id = pizzas.pizza_id
GROUP BY pt.name
ORDER BY total_quantity DESC
LIMIT 5;
```

Result Grid |   Filter Rows:


	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

Determine the distribution of orders by hour of the day.

```
select hour(order_time) as ho, count(order_id)
from orders
group by ho;
```



Result Grid |   Filter Rows

	ho	count(order_id)
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8

Result 18 × 

Join relevant table to find the category-wise distribution of pizzas



```
select count(name) , category  
from pizza_types  
group by category;
```

Result Grid |  Filter Rows: 

	count(name)	category
▶	6	Chicken
	8	Classic
	9	Supreme
	9	Veggie

Group the orders by date and calculate the average number of pizzas ordered per day



```
select avg(quantity) from  
(select  
orders.order_date, sum(order_details.quantity) as quantity  
from orders  
join order_details  
on orders.order_id = order_details.order_id  
group by orders.order_date) as order_quantity;
```

Result Grid |   Filter Rows

	count(name)	category
▶	6	Chicken
	8	Classic
	9	Supreme
	9	Veggie

Determine the top 3 most ordered pizza types based on revenue.

```
select pt.name , sum(od.quantity * pizzas.price) as TR
from pizzas
join pizza_types as pt
on pizzas.pizza_type_id = pt.pizza_type_id
join order_details as od
on pizzas.pizza_id = od.pizza_id
group by pt.name
order by TR desc limit 3;
```

Result Grid |   Filter Rows:

	name	TR
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

Calculate the percentage contribution of each pizza type to total revenue

```
select pt.category , sum(od.quantity * pizzas.price)/(select
sum(order_details.quantity*pizzas.price) as TS
from order_details
join pizzas
on pizzas.pizza_id = order_details.pizza_id) * 100 as TR
from pizzas
join pizza_types as pt
on pizzas.pizza_type_id = pt.pizza_type_id
join order_details as od
on pizzas.pizza_id = od.pizza_id
group by pt.category
order by TR desc;
```

Result Grid			Filter Rows:
	category	TR	
▶	Classic	26.905960255669903	
	Supreme	25.45631126009884	
	Chicken	23.955137556847493	
	Veggie	23.682590927384783	

Analyse the cumulative revenue generated over time.

```
select order_date, sum(sales) over(order by order_date) as cum_rev
from
(select orders.order_date , sum(od.quantity * pizzas.price) as sales
from order_details as od
join orders
on orders.order_id = od.order_id
join pizzas
on od.pizza_id = pizzas.pizza_id
group by orders.order_date) as revenue;
```

Result Grid			Filter Rows:
	category	TR	
▶	Classic	26.905960255669903	
	Supreme	25.4563112600988	25.4
	Chicken	23.955137556847493	
	Veggie	23.682590927384783	

Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
select name, revenue, rn
from
(
select category, name , revenue,
rank() over(partition by category order by revenue desc)as rn
from
(
select pt.category, pt.name ,sum(od.quantity * pizzas.price) as revenue
from pizzas
join pizza_types as pt
on pizzas.pizza_type_id = pt.pizza_type_id
join order_details as od
on pizzas.pizza_id = od.pizza_id
group by pt.category, pt.name) as a) as b
where rn<=3;
```

Result Grid




Filter Rows:

Export:

	name	revenue	rn
▶	The Thai Chicken Pizza	43434.25	1
	The Barbecue Chicken Pizza	42768	2
	The California Chicken Pizza	41409.5	3
	The Classic Deluxe Pizza	38180.5	1
	The Hawaiian Pizza	32273.25	2
	The Pepperoni Pizza	30161.75	3
	The Spicy Italian Pizza	34831.25	1
	The Italian Supreme Pizza	33476.75	2
	The Sicilian Pizza	30940.5	3
	The Four Cheese Pizza	32265.70000000065	1
	The Mexicana Pizza	26780.75	2
	The Five Cheese Pizza	26066.5	3



**Thank you everyone
for joining our little
pizza party!!**