



By Mangesh Pakhale

About Us

Hello, my name is Mangesh Pakhale and I am passionate about working with data. In this project, I utilized SQL queries to analyze pizza sales.



Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) total_orders

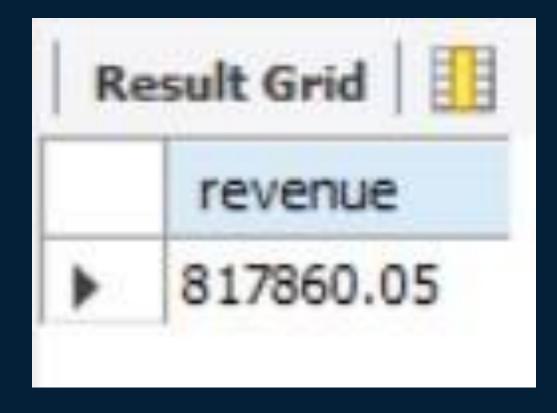
FROM

orders;
```



Calculate the total revenue generated from pizza sales.

```
SELECT
    ROUND(SUM(quantity * price), 2) revenue
FROM
    order_details o
        JOIN
    pizzas p USING (pizza_id);
```



Identify the highest-priced pizza.

```
SELECT
    name, price
 FROM
    pizza_types pt
        JOIN
    pizzas p USING (pizza_type_id)
 ORDER RV nrice DESC
Result Grid
    name
   The Greek Pizza
```

Identify the most common pizza size ordered.

```
SELECT
    size, COUNT(quantity)
FROM
   pizzas
        JOIN
   order_details USING (pizza_id)
GROUP BY size
ORDER BY COUNT (quantity) DESC
 Result Grid
```

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

```
SELECT
    name, SUM(quantity) quantities
FROM
    pizza_types
        JOIN
    pizzas USING (pizza type id)
        JOIN
    order details USING (pizza id)
GROUP BY name
ORDER BY quantities DESC
LIMIT 5;
```

	name	quantities
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
    category, SUM(quantity) quantity
FROM
    order_details
        JOIN
    pizzas USING (pizza_id)
        JOIN
    pizza_types USING (pizza_type_id)
GROUP BY category;
```

Result Grid		Filter Rows:
	category	quantity
•	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050

Determine the distribution of orders by hour of the day.

```
SELECT

HOUR(order_time), COUNT(order_id)

FROM

orders

GROUP BY HOUR(order_time)

ORDER BY COUNT(order_id) DESC;
```

Result Grid				
	HOUR(order_time)	COUNT(order_id)		
•	12	2520		
	13	2455		
	18	2399		
	17	2336		
	19	2009		
	16	1920		
	20	1642		
	14	1472		
	15	1468		
	11	1231		
	21	1198		
	22	663		
	23	28		
	10	8		
	9	1		

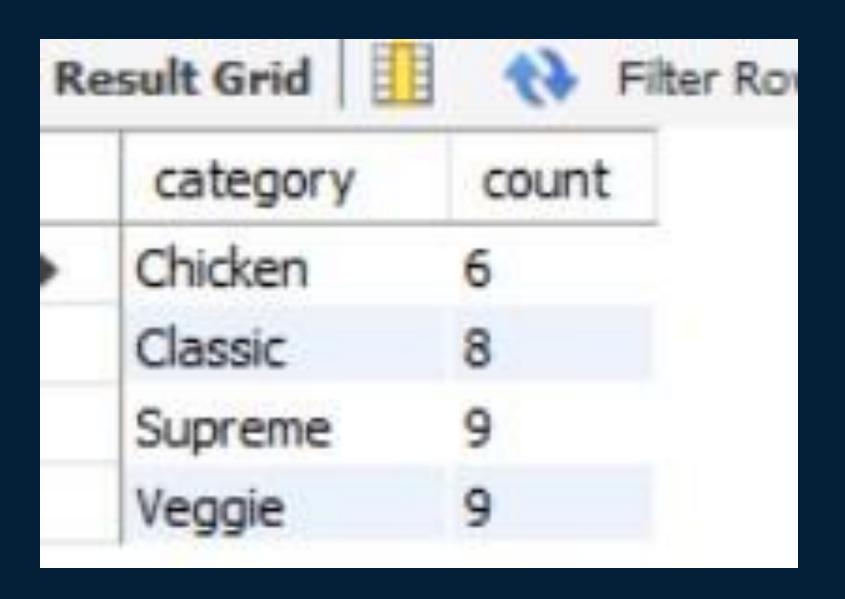
Join relevant tables to find the category-wise distribution of pizzas.

```
category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```





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

```
with cte as(
select order_date, sum(quantity) q
from order_details
join orders using(order_id)
group by order_date)
select *, round(avg(q) over(),0) avg_quantity_order_per_day from cte;
```

Re	esult Grid	Filter Rows		Export:
	order_date	quantity	avg_quantity_order_p	er_day
•	2015-01-01	162	138	
	2015-01-02	165	138	
	2015-01-03	158	138	
	2015-01-04	106	138	
	2015-01-05	125	138	
	2015-01-06	147	138	
	2015-01-07	138	138	
	2015-01-08	173	138	

10 determine the top 3 most ordered pizza types based on revenue.

```
SELECT
    name, SUM(quantity * price) revenue
FROM
    order details
        JOIN
    pizzas USING (pizza id)
        JOIN
    pizza_types USING (pizza_type_id)
GROUP BY name
ORDER BY revenue DESC
LIMIT 3;
```

Re	esult Grid H	WS:
	name	revenue
•	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.

```
with ct as(
select name, sum(quantity*price) revenue
from order_details
join pizzas using(pizza_id)
join pizza_types using(pizza_type_id)
group by name)
select *, concat(round((revenue/sum(revenue) over())*100,2),'%') 'revenue_%' from ct
order by concat(round((revenue/sum(revenue) over())*100,2),'%') desc;
```

name	revenue	revenue_%
The Four Cheese Pizza	32265.70000000065	3.95%
The Sicilian Pizza	30940.5	2 78%
The Pepperoni Pizza	30161.75	10.5 9%
The Greek Pizza	28454.100000000013	3.48%
The Mexicana Pizza	26780.75	3.27%
The Five Cheese Pizza	26066.5	3.19%
The Pepper Salami Pizza	25529	3.12%
The Italian Capocollo Pizza	25094	3.07%
The Vegetables + Vegetabl	24374.75	2.98%
The Prosciutto and Arugula	24193.25	2.96%
The Napolitana Pizza	24087	2.95%
1		

Calculate the percentage contribution of each pizza category to total revenue.

```
with ct as(
select category, sum(quantity*price) revenue
from order_details
join pizzas using(pizza_id)
join pizza_types using(pizza_type_id)
group by category)
select *, concat(round((revenue/sum(revenue) over())*100,2),'%') 'revenue_%' from ct
order by concat(round((revenue/sum(revenue) over())*100,2),'%') desc;
```

Re	esult Grid	Filter Rows:	Export
	category	revenue	revenue_%
•	Classic	220053.1000000001	26.91%
	Supreme	208196.99999999822	25.46%
	Chicken	195919.5	23.96%
	Veggie	193690.45000000298	23.68%

Analyze the cumulative revenue generated over time.

```
with cte as(
select order_date, sum(quantity*price) as revenue
from order_details
join pizzas using(pizza_id)
join orders using(order_id)
group by order_date)
select *, sum(revenue) over(order by order_date) cum_revenue from cte;
```

Re	sult Grid	Filter Rows:	Export:	
	order_date	revenue	cum_revenue	
•	2015-01-01	2713.8500000000004	2713.8500000000004	
	2015-01-02	2731.8999999999996	5445.75	
2015-01-04		2662.399999999996	8108.15	
		1755.45000000000003	9863.6	
		2065.95	11929.55	
	2015-01-06	2428.95	14358.5	
2015-01-07		2202.2000000000003	16560.7	
	2015-01-08	2838.349999999995	19399.05	
200	0.454			



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

```
with ctt as(
with ct as(
select name, category, sum(quantity*price) revenue
from order_details
join pizzas using(pizza_id)
join pizza_types using(pizza_type_id)
group by name, category
order by category)
select *, rank() over(partition by category order by revenue desc) rk from ct)
select * from ctt where rk<=3;</pre>
```

Re	esult Grid II Filter Rows:		Export: W	/rap Cell Content:]
	name	category	revenue	rk
•	The Thai Chicken Pizza	Chicken	43434.25	1
	The Barbecue Chicken Pizza	Chicken	42768	2
	The California Chicken Pizza	Chicken	41409.5	3
	The Classic Deluxe Pizza	Classic	38180.5	1
	The Hawaiian Pizza	Classic	32273.25	2
	The Pepperoni Pizza	Classic	30161.75	3
	The Spicy Italian Pizza	Supreme	34831.25	1
	The Italian Supreme Pizza	Supreme	33476.75	2
	The Sicilian Pizza	Supreme	30940.5	3
	The Four Cheese Pizza	Veggie	32265.70000000065	1
	The Mexicana Pizza	Veggie	26780.75	2
	The Five Cheese Pizza	Veggie	26066.5	3

conclusion:

The Pizza Sales Analysis project showcases MySQL's effectiveness in managing sales data for business decisions.

It highlights my skills in designing efficient databases, generating actionable insights, and presenting them visually.

I aim to apply these skills in future projects and roles.

Thank You

