

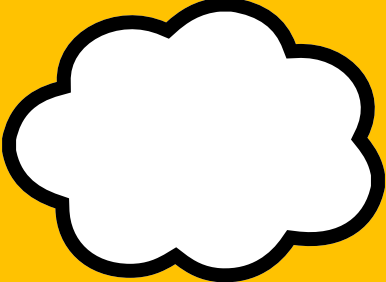




A SLICE OF HAPPINESS

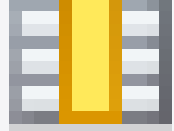




The SQL Pizza Sale Project is a data analysis initiative aimed at exploring and understanding sales trends, customer preferences, and business performance in a pizza restaurant. By leveraging SQL queries on a structured dataset, this project extracts key insights related to sales revenue, popular pizza types, order frequency, peak sales hours, and customer behavior.



Retrieve the total number of orders
placed.

```
SELECT  
COUNT(order_id)  
FROM  
orders;
```

Result Grid			
	COUNT(order_id)		
	21350		

Calculate the total revenue generated from pizza sales.

```
SELECT  
ROUND(SUM(order_details.quantity * pizzas.price),  
2) AS total_sales  
FROM  
order_details  
JOIN  
pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid	
	total_sales
▶	817860.05

Identify the highest-priced pizza.

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

Result Grid			Filter Rows:	
	name	quantity		
▶	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
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizza_types
JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

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

Determine the distribution of orders by hour
of the day.

```
SELECT
  HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
  orders
GROUP BY HOUR(order_time);
```

Result Grid			Filter
	hour	order_count	
▶	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	
	19	2009	
	20	1642	
	21	1198	




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

```
SELECT
category, COUNT(name)
FROM
pizza_types
GROUP BY category;
```

Result Grid			Filter Rows:	
	category	count(name)		
▶	Chicken	6		
	Classic	8		
	Supreme	9		
	Veggie	9		

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

```
SELECT
ROUND(AVG(quantity), 0) AS avg_pizza_orderd_par_day
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:
	avg_pizza_orderd_par_day		
	138		



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

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid			Filter Rows:	
	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.

```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_sales
        FROM
            order_details
        JOIN
            pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
        2) AS revenue
    FROM
        pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
        order_details ON order_details.pizza_id = pizzas.pizza_id
    GROUP BY pizza_types.category
    ORDER BY revenue DESC;
```

Result Grid   Filter Rows		
	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Analyze the cumulative revenue generated over time

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

Result Grid |   Filter Rows:

	order_date	cum_revenue
▶	2015-01-01	2713.85000000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.3500000000002
	2015-01-11	25862.65

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

```
select name, revenue from
(select category,name,revenue,
rank() over (partition by category order by revenue desc) as rn
from

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

Result Grid			Filter Rows:	Exp
	name	revenue		
	The Barbecue Chicken Pizza	42768		
	The California Chicken Pizza	41409.5		
	The Classic Deluxe Pizza	38180.5		
	The Hawaiian Pizza	32273.25		
	The Pepperoni Pizza	30161.75		
	The Spicy Italian Pizza	34831.25		
	The Italian Supreme Pizza	33476.75		
	The Sicilian Pizza	30940.5		
	The Four Cheese Pizza	32265.700000000065		
	The Mexicana Pizza	26780.75		
	The Five Cheese Pizza	26066.5		