### PIZZA SALES PROJECT



# WELCOME TO PIZZA SQL PROJECT

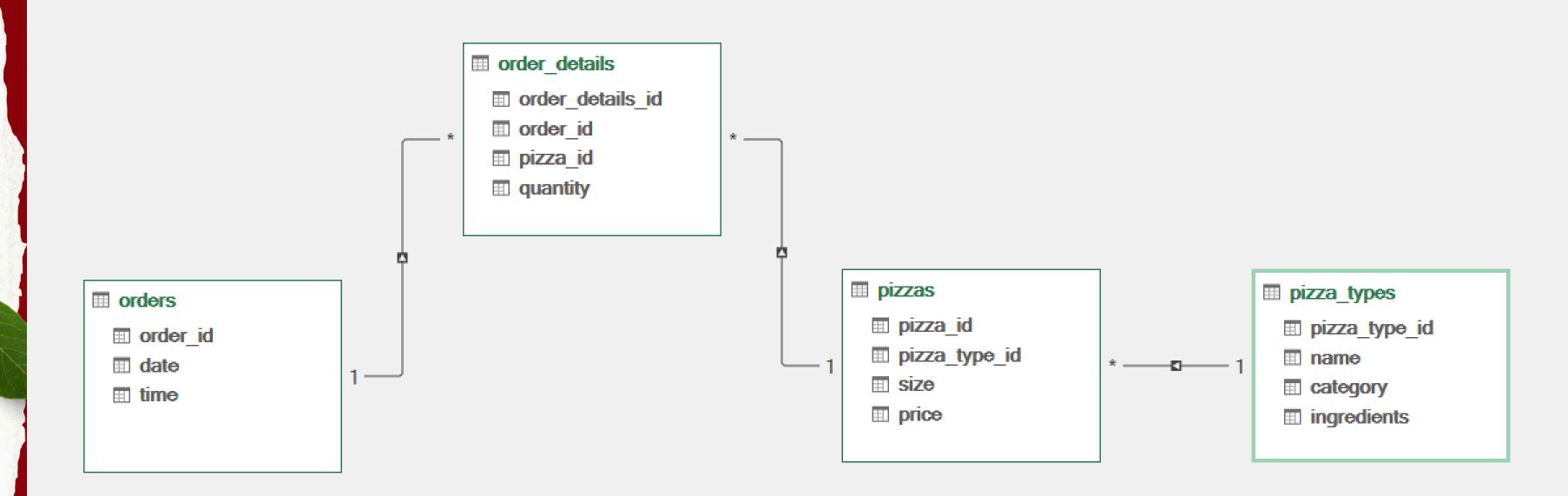
This SQL-based pizza sales analysis project explores key business insights by retrieving total orders, revenue, and popular pizza types. It identifies the highest-priced pizza, the most common pizza size, and the top-selling varieties.

**Intermediate** analysis includes order distribution by time, category-wise sales, and daily order trends.

**Advanced queries** assess revenue contribution, cumulative earnings, and top-selling pizzas by category. By leveraging SQL to analyze sales data, this project helps optimize inventory management, pricing strategies, and overall business performance.



#### DATA RELATIONS

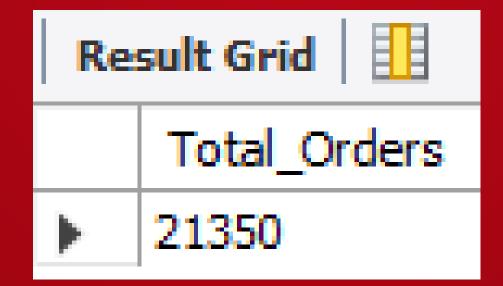


ORDERS TABLE ORDER
DEATAILS
TABLE

PIZZA TABLE PIZZA TYPES
TABLE

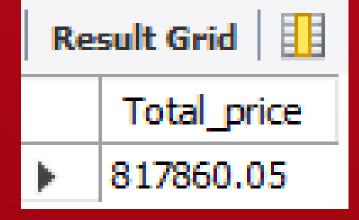
## RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT count(order_id) as Total_Orders
FROM orders;
```



# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
    ROUND(SUM(p.price * od.quantity), 2) AS Total_price
FROM
    pizzas p
INNER JOIN
    Order_details od ON p.pizza_id = od.pizza_id;
```



# IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT pt.name, p.price as Highest_priced_pizza
FROM pizza_types pt
INNER JOIN pizzas p
ON pt.pizza_type_id = p.pizza_type_id
ORDER BY p.price DESC
LIMIT 1;
```

Result Grid 🔢 🛟 Filter Rows:			
	name	Highest_priced_pizza	
•	The Greek Pizza	35.95	

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT p.size as most commonly use size,
count(od.order details id) as Number of orders
FROM pizzas p
INNER JOIN Order details od
ON p.pizza id = od.pizza id
group by 1
Having count(od.order details id)
order by count(od.order details id) desc
Limit 1;
```

	most_commonly_use_size	Number_of_orders
•	L	18526

## LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT pt.pizza_type_id, pt.name,
count(o.order_id) as Most_purchased, sum(od.quantity) as total_quantity
FROM pizzas p
INNER JOIN pizza_types pt
ON p.pizza_type_id = pt.pizza_type_id
INNER JOIN order_details od
ON p.pizza_id = od.Pizza_id
Inner join orders o
on o.order_id = od.order_id
group by 1, 2
order by count(o.order_id) desc
limit 5;
                                                              Most_purchased
                                                                          total_quantity
                                pizza_type_id
                                           name
```

classic dlx

bbg ckn

hawaijan

pepperoni

thai ckn

The Classic Deluxe Pizza

The Hawaiian Pizza

The Pepperoni Pizza

The Thai Chicken Pizza

The Barbecue Chicken Pizza

2416

2372

2370

2369

2315

2453

2432

2422

2418

2371

### JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
SELECT pt.category, sum(od.quantity) as total_quantity
FROM pizzas p
INNER JOIN pizza_types pt
ON p.pizza_type_id = pt.pizza_type_id
INNER JOIN order_details od
ON p.pizza_id = od.Pizza_id
GROUP BY 1;
```

	category	total_quantity
•	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050



### DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

SELECT hour(time) as Hours, count(order\_id) as Total\_orders
FROM orders

Group by 1;

	Hours	Total_orders
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	10	2222



### JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

SELECT category, count(name) as Total\_pizzas
FROM pizza\_types
GROUP BY 1;

	category	Total_pizzas	
•	Chicken	6	
	Classic	8 8	
	Supreme	9	
	Veggie	9	
	Veggie	9	



#### GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
select ROUND(avg(total_count),2) as average
from (
SELECT o.date, SUM(od.quantity) as total_count
FROM order_Details od
join orders o
on od.order_id = o.order_id
GROUP BY 1) AS SUB;
```

	average
•	138.47



#### DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT pt.name, ROUND(SUM(p.price * od.quantity), 2) AS Total_price
FROM pizzas p
INNER JOIN Order_details od
ON p.pizza_id = od.pizza_id
INNER JOIN pizza_types pt
ON p.pizza_type_id = PT.pizza_type_id
GROUP BY 1
ORDER BY ROUND(SUM(p.price * od.quantity), 2) DESC
LIMIT 3;
```

	name	Total_price
٨	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.

FROM pizzas p

INNER JOIN Order\_details od

ON p.pizza\_id = od.pizza\_id)) \* 100,2) as Percentage\_countribution

```
SELECT pt.category,
round((SUM(p.price * od.quantity) / (SELECT sum(p.price * od.quantity)
FROM pizzas p
INNER JOIN Order_details od
ON p.pizza_id = od.pizza_id
INNER JOIN pizza types pt
ON p.pizza_type_id = Pt.Pizza_type_id
group by 1;
```

category	Percentage_countribution
Classic	26.91
Veggie	23.68
Supreme	25.46
Chicken	23.96

### ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
WITH total_revenue as (
SELECT o.date, sum(p.price * od.quantity) as revenue
FROM pizzas p
INNER JOIN Order_details od
ON p.pizza_id = od.pizza_id
INNER JOIN orders o
ON od.order id = o.order id
GROUP BY 1)
SELECT date, sum(revenue) over(order by date) as cum_revenue
FROM total revenue;
                                           date
                                                     cum_revenue
                                          2015-01-01 2713.8500000000004
                                          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
```

### DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

GROUP BY pt.category, pt.name) as sub)

select category, name, ranking

from cte

where ranking <= 3;

,		
Chicken	The Thai Chicken Pizza	1
Chicken	The Barbecue Chicken Pizza	2
Chicken	The California Chicken Pizza	3
Classic	The Classic Deluxe Pizza	1
Classic	The Hawaiian Pizza	2
Classic	The Pepperoni Pizza	3
Supreme	The Spicy Italian Pizza	1
Supreme	The Italian Supreme Pizza	2
Supreme	The Sicilian Pizza	3
Veggie	The Four Cheese Pizza	1
Veggie	The Mexicana Pizza	2
Veggie	The Five Cheese Pizza	3

