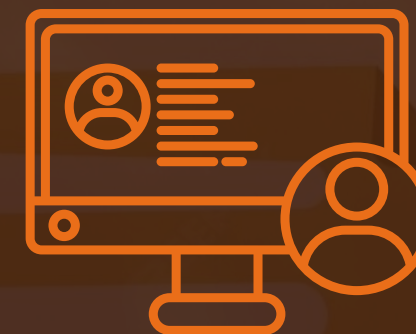
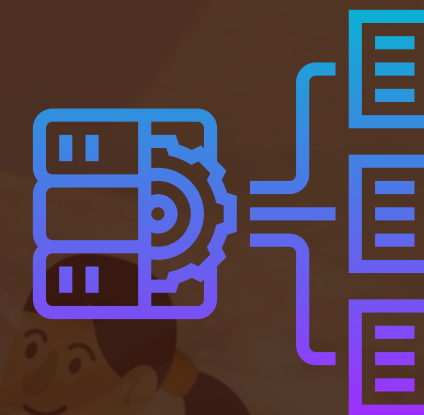
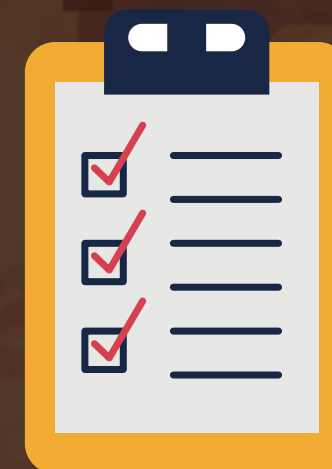
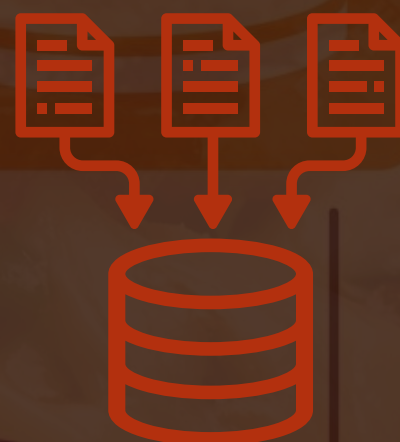




# WELCOME TO SQL PIZZA SHOP



WHERE EVERY QUERY DELIVERS A SLICE OF INSIGHTS!



**ORDER  
YOUR DATA  
NOW**





# PROJECT OVERVIEW

This project showcases my SQL skills through data analysis on a pizza sales dataset. It includes querying, data aggregation, and insights on sales performance, customer preferences, and revenue distribution.



## OBJECTIVES

- To analyze pizza sales data using SQL.
- To extract meaningful insights such as top-selling pizzas, revenue trends, and order patterns.
- To demonstrate proficiency in SQL queries, joins, subqueries, and window functions.



# DATASET USED

## NAME:

- PIZZA SALES DATASET



## DESCRIPTION:

- THIS DATASET CONTAINS INFORMATION ABOUT PIZZA ORDERS, INCLUDING DETAILS ON ORDER DATE, PIZZA TYPE, SIZE, QUANTITY, AND PRICE. IT HELPS ANALYZE SALES TRENDS, CUSTOMER PREFERENCES, AND REVENUE DISTRIBUTION.

## KEY TABLES:

- ORDERS: CONTAINS ORDER IDS, ORDER DATES, AND TIMESTAMPS.
- ORDER DETAILS: LINKS EACH ORDER TO PIZZAS WITH QUANTITY AND PRICE INFORMATION.
- PIZZAS: PROVIDES DETAILS ABOUT EACH PIZZA, INCLUDING SIZE , PRICE AND TYPE
- PIZZA TYPES: LISTS DIFFERENT CATEGORIES OF PIZZAS, SUCH AS CLASSIC, VEGGIE, OR CHICKEN.



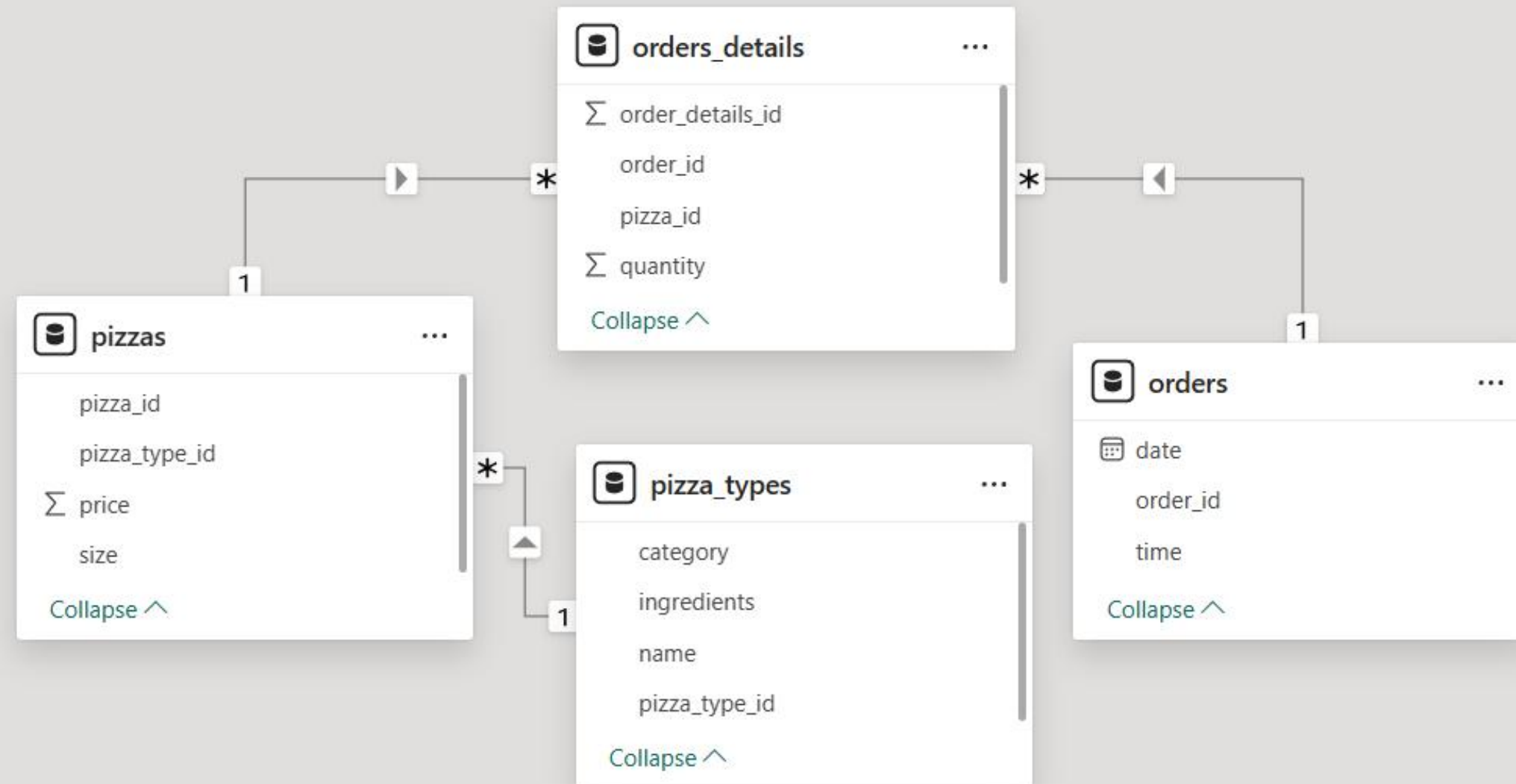
## SQL DATABASE:

- MYSQL (USED FOR DATA EXTRACTION, TRANSFORMATION, AND QUERYING).

## TOOLS USED



# SCHEMA



# 1.RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



```
Select Count(*) as order_placed  
from orders;
```

Result Grid	
	order_placed
▶	21350



## 2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
Select Sum(ordel.quantity*piz.price) as revenue  
from order_details ordel  
Join pizzas piz on piz.pizza_id=ordel.pizza_id;
```

Result Grid				Filter
	revenue			
▶	817860.0499999993			

### 3. IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT piztyp.name AS pizza_name, piz.price AS highest_pizza
FROM pizza_types piztyp
JOIN pizzas piz ON piztyp.pizza_type_id = piz.pizza_type_id
ORDER BY piz.price DESC
LIMIT 1;
```

Result Grid			Filter Rows:
	pizza_name	highest_pizza	
▶	The Greek Pizza	35.95	



## 4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
Select piz.size ,Count(*) as total_orders from order_details ordel
Join pizzas piz on piz.pizza_id=ordel.pizza_id
Group by piz.size
order by total_orders desc
limit 1;
```

Result Grid			Filter R
	size	total_orders	
▶	L	18526	



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

```
Select piztyp.pizza_type_id,sum(ordel.quantity) quantities from order_details ordel
Join pizzas piz on piz.pizza_id=ordel.pizza_id
Join pizza_types piztyp on piztyp.pizza_type_id=piz.pizza_type_id
group by piztyp.pizza_type_id
Order by quantities desc
limit 5;
```

Result Grid			Filter Rows:
	pizza_type_id	quantities	
▶	classic_dlx	2453	
	bbq_ckn	2432	
	hawaiian	2422	
	pepperoni	2418	
	thai_ckn	2371	



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



```
SELECT piztyp.category, SUM(ordel.quantity) AS total_quantity
FROM order_details ordel
JOIN pizzas piz ON ordel.pizza_id = piz.pizza_id
JOIN pizza_types piztyp ON piztyp.pizza_type_id = piz.pizza_type_id
GROUP BY piztyp.category;
```

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



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

```
SELECT HOUR(time) AS hour_of_day, COUNT(*) AS total_orders
FROM orders
GROUP BY hour_of_day
ORDER BY hour_of_day;
```

Result Grid |   Filter Rows:

	hour_of_day	total_orders
	9	1
	10	8
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	7000



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



```
SELECT piztyp.category, SUM(ordel.quantity) AS total_pizzas_sold
FROM order_details ordel
JOIN pizzas piz ON ordel.pizza_id = piz.pizza_id
JOIN pizza_types piztyp ON piztyp.pizza_type_id = piz.pizza_type_id
GROUP BY piztyp.category
ORDER BY total_pizzas_sold DESC;
```

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



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

```
SELECT orders_date, AVG(total_orders) AS average_orders_per_day
FROM (
    SELECT ord.date AS orders_date, COUNT(ord.order_id) AS total_orders
    FROM orders ord
    GROUP BY ord.date
) AS daily_orders
GROUP BY orders_date
ORDER BY orders_date;
```

Result Grid     Filter Rows: <input type="text"/>		
	orders_date	average_orders_per_day
▶	2015-01-01	69.0000
	2015-01-02	67.0000
	2015-01-03	66.0000
	2015-01-04	52.0000
	2015-01-05	54.0000
	2015-01-06	64.0000
	2015-01-07	58.0000



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



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

Result Grid			Filter Rows:
	pizza_type	revenue	
▶	thai_chn	43434.25	
	bbq_chn	42768	
	cali_chn	41409.5	



# 11. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
SELECT piztyp.pizza_type_id AS pizza_type,  
       ROUND((100.00 * SUM(ordel.quantity * piz.price)) /  
             SUM(SUM(ordel.quantity * piz.price)) OVER(), 2) AS percentage_distribution  
FROM order_details ordel  
JOIN pizzas piz ON piz.pizza_id = ordel.pizza_id  
JOIN pizza_types piztyp ON piztyp.pizza_type_id = piz.pizza_type_id  
GROUP BY piztyp.pizza_type_id  
ORDER BY percentage_distribution DESC;
```

Result Grid   			 Filter Rows: <input type="text"/>	
	pizza_type	percentage_distribution		
▶	hawaiian	3.95		
	classic_dlx	4.67		
	five_cheese	3.19		



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

```
WITH pizza_revenue AS (  
  SELECT  
    piztyp.pizza_type_id AS pizza_type,  
    piztyp.category AS pizza_category,  
    SUM(ordel.quantity * piz.price) AS revenue,  
    RANK() OVER (PARTITION BY piztyp.category ORDER BY SUM(ordel.quantity * piz.price) DESC) AS ranks  
  FROM order_details ordel  
  JOIN pizzas piz ON piz.pizza_id = ordel.pizza_id  
  JOIN pizza_types piztyp ON piztyp.pizza_type_id = piz.pizza_type_id  
  GROUP BY piztyp.pizza_type_id, piztyp.category  
)  
SELECT pizza_type, pizza_category, revenue  
FROM pizza_revenue  
WHERE ranks <= 3  
ORDER BY pizza_category, ranks;
```

Result Grid		Filter Rows:	
	pizza_type	pizza_category	revenue
▶	thai_ckn	Chicken	43434.25
	bbq_ckn	Chicken	42768
	cali_ckn	Chicken	41409.5
	classic_dlx	Classic	38180.5
	hawaiian	Classic	32272.25

TRIED THE SQL PIZZA INSIGHTS PROJECT?  
YOUR FEEDBACK MATTERS! 🍕

👉 WHAT WORKED WELL? WHAT CAN  
BE IMPROVED?

💡 DROP YOUR THOUGHTS IN THE  
COMMENTS!



**THANK YOU  
FOR ATTENTION**

