

# HELLO

This project focuses on analyzing pizza sales data using MySQL. Through this case study, I have written and executed SQL queries to extract meaningful insights such as total revenue, best-selling pizzas, peak order times, and customer preferences. The goal of this project is to demonstrate practical SQL skills in data retrieval, aggregation, and reporting, using real-world business scenarios.



# DATASET DESCRIPTION

This project is based on a structured pizza sales dataset, designed to simulate real-world transactions in a pizza restaurant. The dataset is divided into four relational tables, each serving a specific purpose:

1. **Orders.csv** : Contains unique order id along with date and time of each order.
2. **Orders\_details.csv** : Contains fields like order id , pizza id and quantity , helping to identify what was ordered and how much.
3. **Pizza\_types.csv** : Lists detailed descriptions of each pizza type using pizza\_type id , along with name and category and a list of ingredients.
4. **Pizzas.csv** : Maps each pizza\_id to its pizza\_type\_id , size and price



# Retrieve the total number of orders placed.

```
SELECT  
    COUNT(order_details_id) AS total_orders_placed  
FROM  
    orders_details;
```

	total_orders_placed
▶	48620



# Calculate the total revenue generated from pizza sales.

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

	total_sales
▶	817860.05



# Identify the highest-priced pizza.

```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizzas
    JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

	name	price
►	The Greek Pizza	35.95





# Identify the most common pizza size ordered.

```
SELECT
    pizzas.size,
    COUNT(orders_details.quantity) AS quantity_ordered
FROM
    pizzas
    JOIN
        orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY quantity_ordered DESC
LIMIT 1;
```

	size	quantity_ordered
▶	L	18526



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

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

	name	quantity_ordered
▶	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 category ordered.

```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS total_quantity
FROM
    orders_details
    JOIN
    pizzas ON pizzas.pizza_id = orders_details.pizza_id
    JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.category
ORDER BY total_quantity DESC;
```

	category	total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050





# Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(order_time), COUNT(order_id) AS quantity
FROM
    orders
GROUP BY HOUR(orders.order_time);
```

	HOUR(order_time)	quantity
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920



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

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

	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
    AVG(quantity)
FROM
    (SELECT
        orders.order_date, SUM(orders_details.quantity) AS quantity
    FROM
        orders
    JOIN orders_details ON orders.order_id = orders_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

	AVG(quantity)
▶	138.4749



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

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

	name	revenue
►	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5





# THANKYOU

