

# SQL Project on Pizza Sales








# Hello !



"In this project, I utilized SQL queries to address and solve various questions related to pizza sales. This involved analyzing sales data, identifying trends, and generating insights to support decision-making processes. The use of SQL allowed me to efficiently manage and interrogate the data, providing valuable information on sales performance, customer preferences, and operational efficiencies."



# Retrieve the total number of orders placed.

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

| Result Grid |              |
|-------------|--------------|
|             | total_orders |
| ▶           | 21350        |



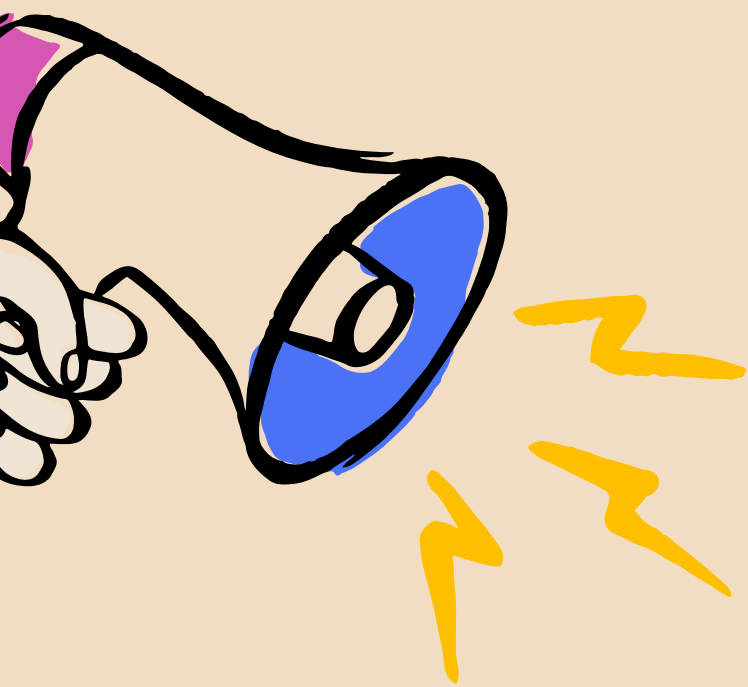
# Calculate the total revenue generated from pizza sales.



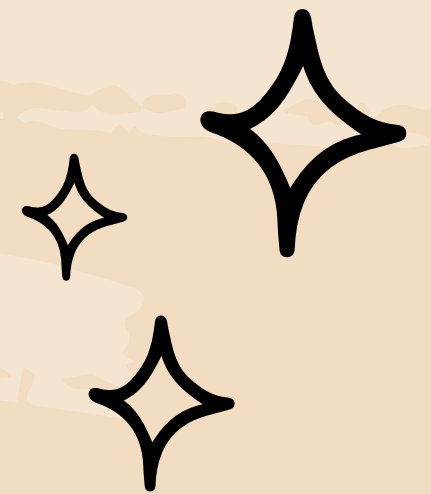
```
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
          2) AS total_revenue
FROM
    order_details
    JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id
```

| Result Grid |               |
|-------------|---------------|
|             | total_revenue |
| ▶           | 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;
```

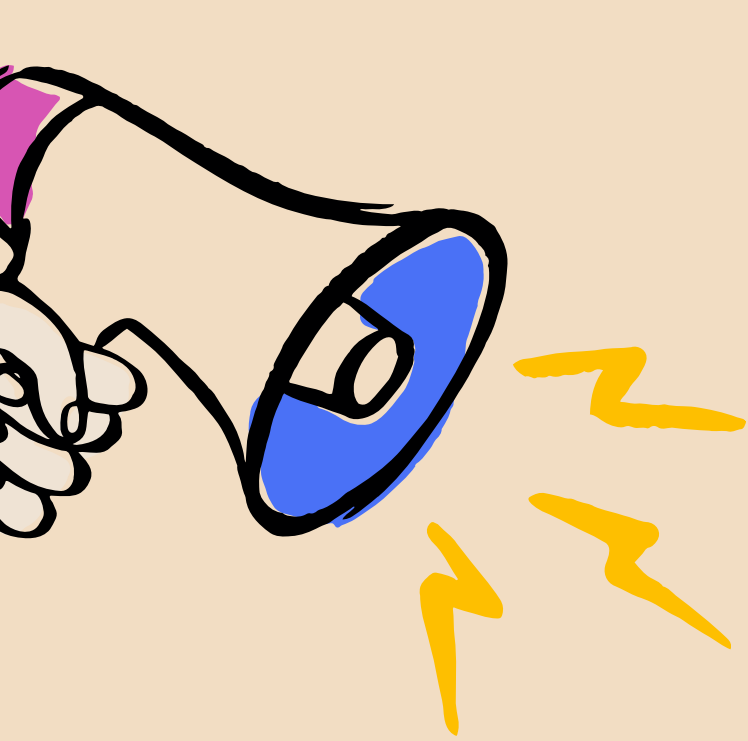
| Result Grid |                 |       | Filter Rows: |  |
|-------------|-----------------|-------|--------------|--|
|             | name            | price |              |  |
| ▶           | The Greek Pizza | 35.95 |              |  |



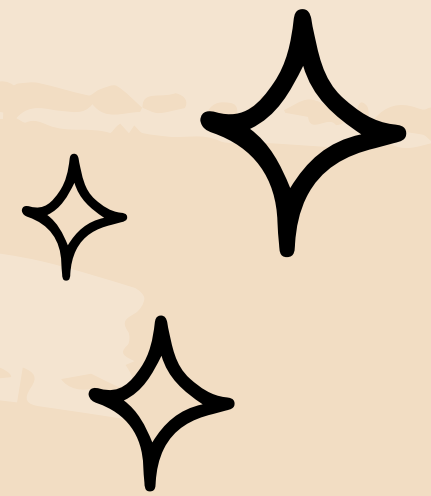
# Identify the most common pizza size ordered.

```
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 Rows: |
|-------------|------|-------------|--------------|
|             | 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);
```

|   | 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        |
|   | 22   | 663         |
|   | 23   | 28          |
|   | 10   | 8           |
|   | 9    | 1           |

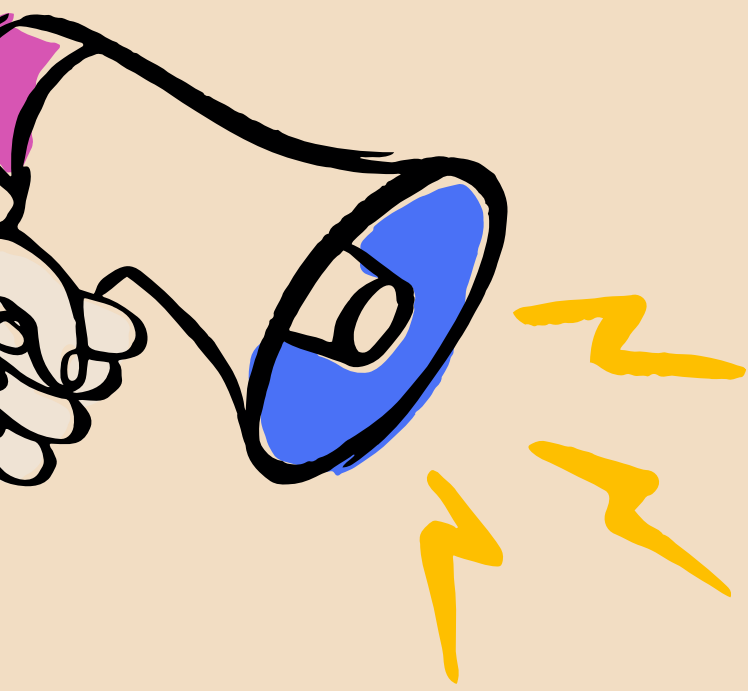


# Join relevant tables to find the category-wise distribution of pizzas.

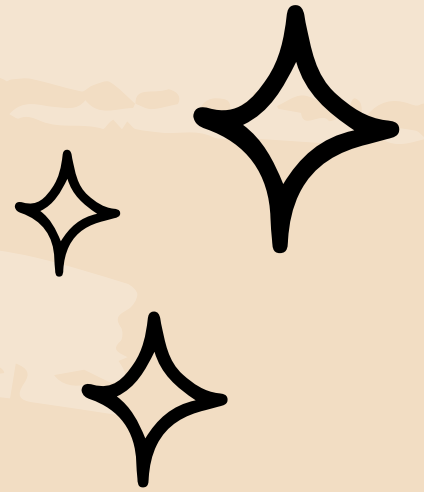
```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

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_ordered_per_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_ordered_per_day |              |
| ▶           | 138                       |              |

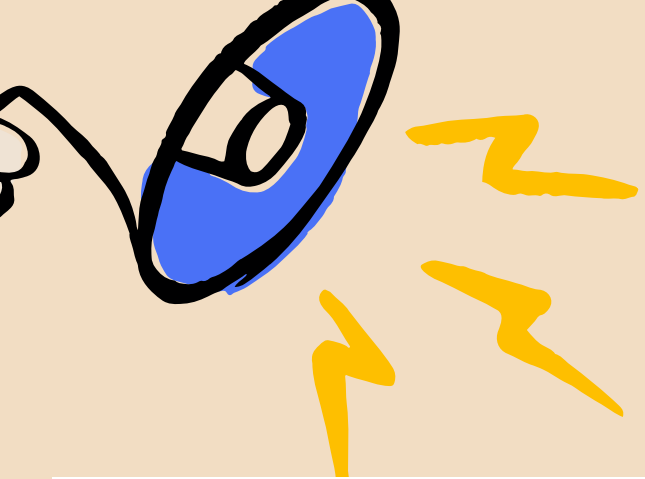




# Determine the top 3 most ordered pizza types based on revenue.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
    JOIN
    pizzas ON 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 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 category
ORDER BY revenue DESC;
```

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



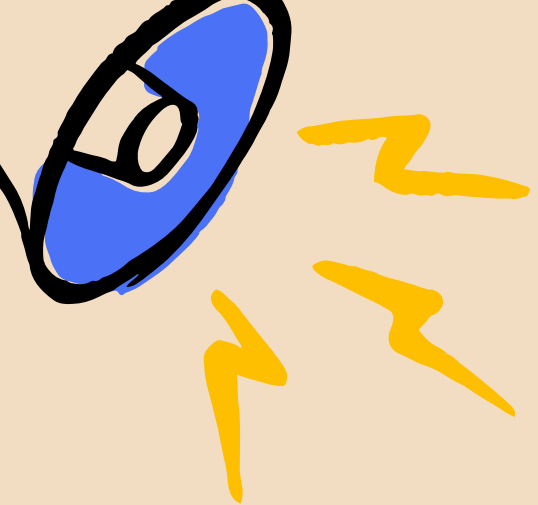


# Analyze the cumulative revenue generated over time.

```
select order_date,  
sum(revenue) over (order by order_date) as cum_reveune  
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_reveune           |              |
| ▶           | 2015-01-01 | 2713.8500000000000004 |              |
|             | 2015-01-02 | 5445.75               |              |
|             | 2015-01-03 | 8108.15               |              |
|             | 2015-01-04 | 9863.6                |              |
|             | 2015-01-05 | 11929.55              |              |





# 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: <input type="text"/> |                              |                    |
|---|------------------------------|--------------------|
|   | name                         | revenue            |
| ▶   | The Thai Chicken Pizza       | 43434.25           |
|   | 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            |







# Thank You!



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