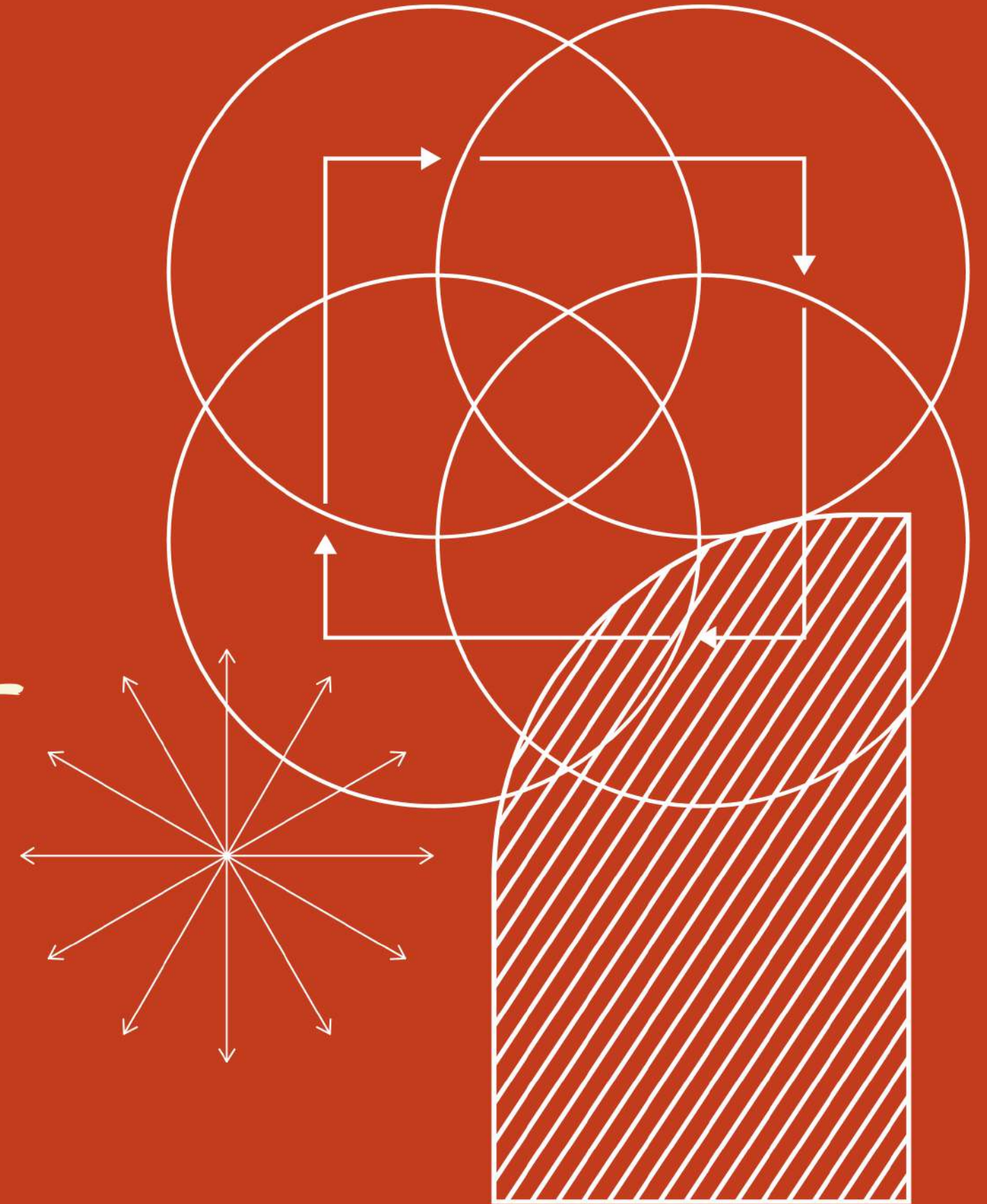


# Pizza Sales Analysis

using MySQL





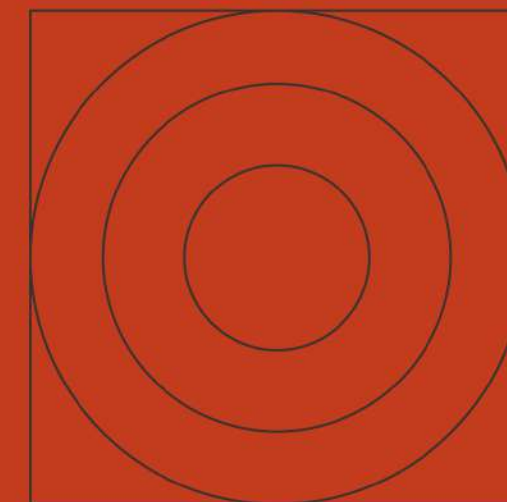
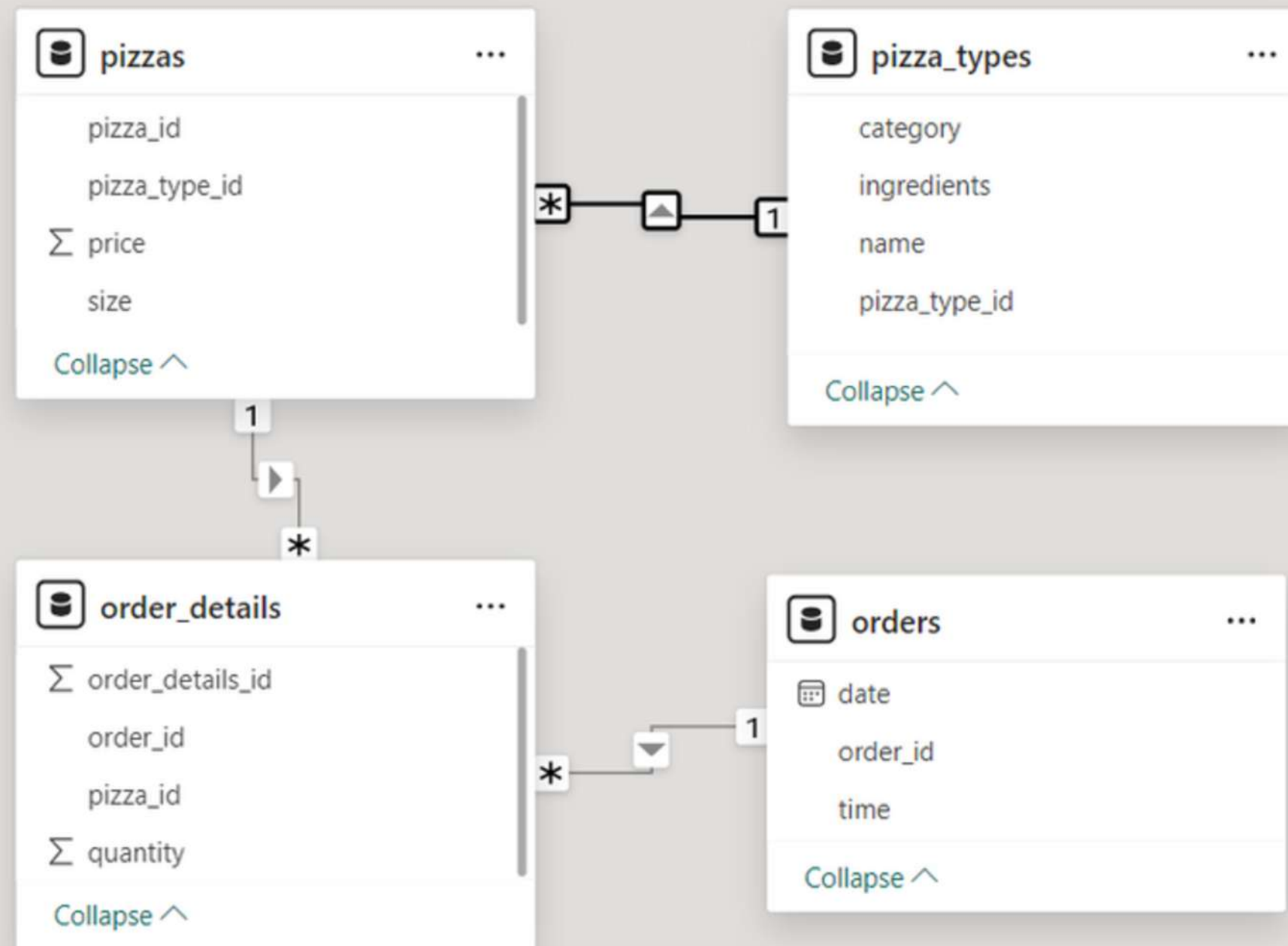
# Objective

The objective of this SQL project is to analyze pizza sales data to gain insights into customer behavior and identify popular pizza types. It aims to uncover sales trends and assess overall performance, enabling data-driven decisions to optimize sales strategies and operational efficiency.





# Database schema



# Table Details

- pizzas: The pizza table contains details about pizzas with columns for pizza\_id (unique identifier), pizza\_type\_id (links to pizza\_types table), size (e.g., small, medium, large), and price.
- pizza \_ types: The pizza\_type table lists pizza types with columns for pizza\_type\_id (unique identifier), name
- order \_ details: The order\_details table tracks individual items in orders with columns for order\_details\_id, order\_id, pizza\_id, and quantity, linking orders to specific pizzas and their quantities.e, category (e.g., vegetarian, meat), and ingredients (list of ingredients).
- orders: The orders table records order information with columns for order\_id (unique identifier), date (order date), and time (order time).



# Total revenue generated from pizza sales.

```
10
11 • SELECT
12     ROUND(SUM(p.price * od.quantity), 2) AS total_revenue
13 FROM
14     pizzas p
15     JOIN
16     order_details od ON p.pizza_id = od.pizza_id;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
total_revenue					
817860.05					





# Top 5 most ordered pizza types along with their quantities



```
54 • SELECT
55     pt.name,
56     COUNT(od.order_details_id) AS order_count,
57     SUM(od.quantity) AS order_quantity
58 FROM
59     pizza_types pt
60     JOIN
61     pizzas p ON pt.pizza_type_id = p.pizza_type_id
62     JOIN
63     order_details od ON p.pizza_id = od.pizza_id
64 GROUP BY pt.name
65 ORDER BY order_count DESC
66 LIMIT 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Co

name	order_count	order_quantity
The Classic Deluxe Pizza	2416	2453
The Barbecue Chicken Pizza	2372	2432
The Hawaiian Pizza	2370	2422
The Pepperoni Pizza	2369	2418
The Thai Chicken Pizza	2315	2371



# Most common pizza size ordered



```
42 • SELECT
43     p.size, COUNT(od.order_details_id) AS order_count
44 FROM
45     pizzas p
46     JOIN
47     order_details od ON p.pizza_id = od.pizza_id
48 GROUP BY p.size
49 ORDER BY order_count DESC
50 limit 1;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

size	order_count
L	18526



# Total quantity of each pizza category ordered

```
6 • SELECT
7     pt.category, SUM(od.quantity) AS quantity_ordered
8 FROM
9     pizza_types pt
10    JOIN
11    pizzas p ON pt.pizza_type_id = p.pizza_type_id
12    JOIN
13    order_details od ON p.pizza_id = od.pizza_id
14 GROUP BY pt.category
15 ORDER BY quantity_ordered DESC;
```

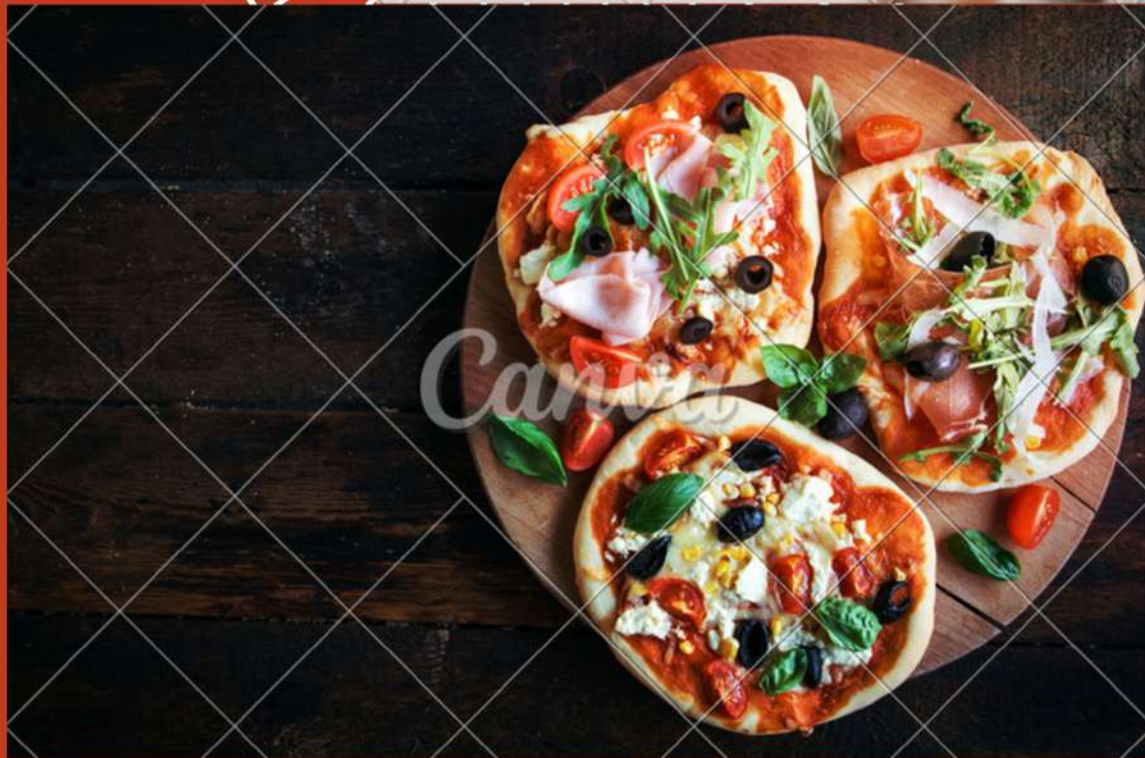
Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content:

category	quantity_ordered
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050





# Top 3 most ordered pizza types based on revenue



```
73 • SELECT
74     pt.name AS pizza_name,
75     ROUND(SUM(p.price * od.quantity), 2) AS revenue
76 FROM
77     pizza_types pt
78     JOIN
79     pizzas p ON pt.pizza_type_id = p.pizza_type_id
80     JOIN
81     order_details od ON p.pizza_id = od.pizza_id
82 GROUP BY pizza_name
83 ORDER BY revenue DESC
84 LIMIT 3;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
pizza_name	revenue			
The Thai Chicken Pizza	43434.25			
The Barbecue Chicken Pizza	42768			
The California Chicken Pizza	41409.5			



# % contribution of each pizza type to total revenue



```
SELECT
    pt.name AS pizza_name,
    pt.category AS category,
    ROUND(SUM(p.price * od.quantity) / total_revenue * 100,
          2) AS percentage_contribution
FROM
    pizza_types pt
    JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details od ON p.pizza_id = od.pizza_id
    JOIN
    (SELECT
        SUM(p.price * od.quantity) AS total_revenue
    FROM
        pizzas p
        JOIN order_details od ON p.pizza_id = od.pizza_id) AS tr
GROUP BY pt.pizza_type_id, pt.name, pt.category, tr.total_revenue
ORDER BY percentage_contribution DESC;
```

pizza_name	category	percentage_contribution
The Thai Chicken Pizza	Chicken	5.31
The Barbecue Chicken Pizza	Chicken	5.23
The California Chicken Pizza	Chicken	5.06
The Classic Deluxe Pizza	Classic	4.67
The Spicy Italian Pizza	Supreme	4.26
The Southwest Chicken Pizza	Chicken	4.24



# Total quantity of each pizza category ordered

```
6 • SELECT
7     pt.category, SUM(od.quantity) AS quantity_ordered
8 FROM
9     pizza_types pt
10    JOIN
11    pizzas p ON pt.pizza_type_id = p.pizza_type_id
12    JOIN
13    order_details od ON p.pizza_id = od.pizza_id
14 GROUP BY pt.category
15 ORDER BY quantity_ordered DESC;
```

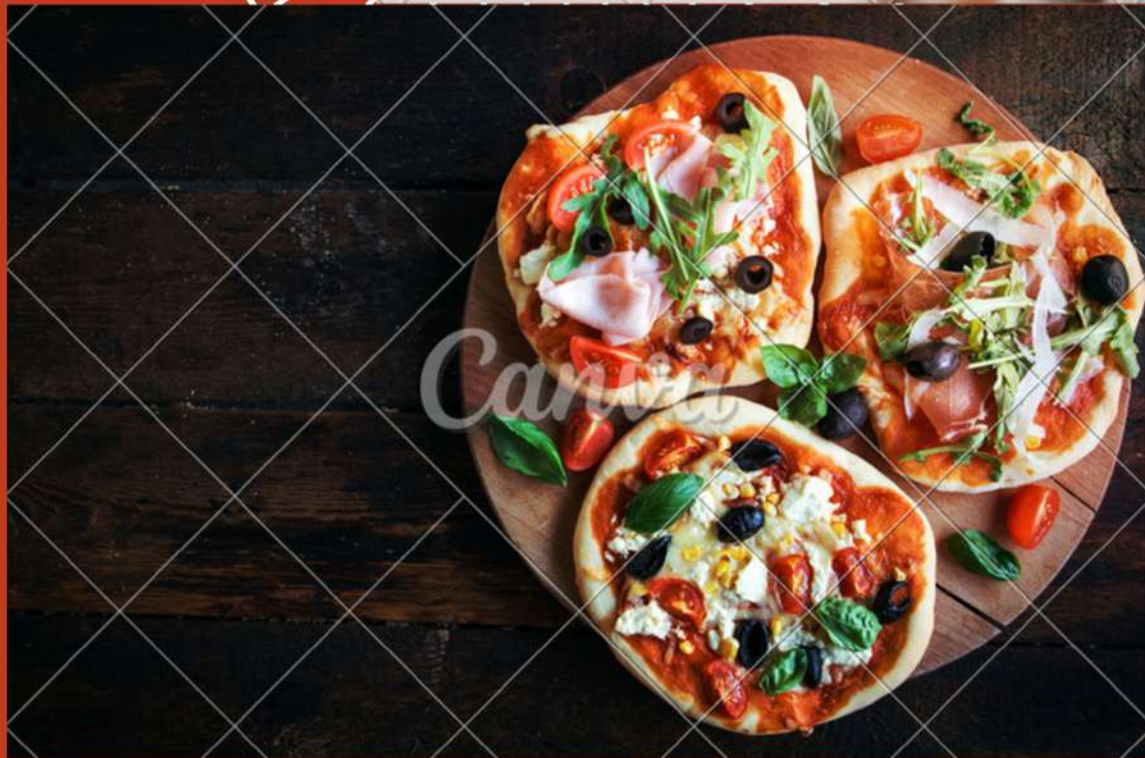
Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content:

category	quantity_ordered
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050





# Average number of pizzas ordered per day



```
54 • SELECT
55     DATE(order_date) AS order_date,
56     ROUND(AVG(total_quantity), 0) AS avg_orders_per_day
57 FROM
58     (SELECT
59         DATE(order_date) AS order_date,
60         SUM(od.quantity) AS total_quantity
61     FROM
62         orders o
63     JOIN order_details od ON o.order_id = od.order_id
64     GROUP BY order_date
65     ORDER BY order_date) AS daily_orders
66 GROUP BY order_date;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

order_date	avg_orders_per_day
2015-01-01	162
2015-01-02	165
2015-01-03	158
2015-01-04	106
2015-01-05	125
2015-01-06	147



# INSIGHTS

- Total Orders and Revenue: The store received a total of 21,350 orders, generating a total revenue of \$ 8,17,860.05.
- Highest Priced Pizza: The Greek pizza is the most expensive, priced at \$ 35.95. Most Common Pizza Size: The large pizza size ("L") is the most popular, with 18,526 orders.
- Most Ordered Pizza Category: The classic pizza category leads in popularity with 14,888 orders.
- Peak Ordering Hours: The busiest times for orders are between 12 PM and 1 PM.
- Average Pizzas Ordered Per Day: On average, 138 pizzas are ordered daily at the store.
- Top Ordered Pizza by Revenue: The Thai Chicken pizza generated the highest revenue, totaling \$ 43,434.25.
- Revenue Contribution: Classic pizza dominates the total revenue with \$ 2,20,053.10, accounting for a contribution of 26.91%





# Thank You

