

# PIZZA SALES DATA ANALYSIS





# USING SQL

By CRAFTING SQL QUERIES , THIS PROJECT DELIVERS INTO  
CRUCIAL ASPECTS OF PIZZA SALES .  
THROUGH THESE QUERIES, WE AIM TO PINPOINT TRENDS,  
IDENTIFY TOP-PERFORMING ITEMS , AND UNEVEIL  
OPPORTUNITIES FOR ENHANCING SALES STRATEGIES  
AND CUSTOMER SATISFICATION.

# SCHEMA USED

To make delicious pizza, you will need the following ingredients:



1.Order\_details  
order\_details\_id  
order\_id  
pizza\_id  
quantity

3.pizzas  
pizza\_id  
pizza\_type\_id  
size price

2.orders  
order\_date  
order\_id  
order\_time

4.pizza\_types  
pizza\_type\_id  
name  
category  
ingredients



# PROBLEMS ON WHICH ARE GOING TO APPLY OUR SQL QUERIES:

## Basic:

1. Retrieve the total number of orders placed.
2. Calculate the total revenue generated from pizza sales.
3. Identify the highest-priced pizza.
4. Identify the most common pizza size ordered.
5. List the top 5 most ordered pizza types along with their quantities.

## Intermediate:

6. Join the necessary tables to find the total quantity of each pizza category ordered.
7. Determine the distribution of orders by hour of the day.
8. Join relevant tables to find the category-wise distribution of pizzas
9. Group the orders by date and calculate the average number of pizzas ordered per day.
10. Determine the top 3 most ordered pizza types based on revenue.

# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
1  -- Retrieve the total number of orders placed.
2 • SELECT count(ORDER_ID) AS TOTAL FROM orders;
```

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

TOTAL
21350

# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
1  -- Calculate the total revenue generated from pizza sales.--
2  • SELECT
3      ROUND(SUM(order_details.quantity * pizzas.price),2) AS SUM
4  FROM
5      order_details
6      JOIN
7      pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Result Grid

SUM
817860.05

# IDENTIFY THE HIGHEST-PRICED PIZZA.

```
3 • SELECT
4     pizza_types.name, pizzas.price
5 FROM
6     pizza_types
7     JOIN
8     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9 ORDER BY pizzas.price DESC
10 LIMIT 1;
```

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

	name	price
▶	The Greek Pizza	35.95



# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
3 • SELECT
4     pizzas.size,
5     COUNT(order_details.order_details_id) AS order_count
6 FROM
7     pizzas
8     JOIN
9     order_details ON pizzas.pizza_id = order_details.pizza_id
10 GROUP BY pizzas.size
11 ORDER BY order_count DESC limit 1;
```

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

	size	order_count
▶	L	18526



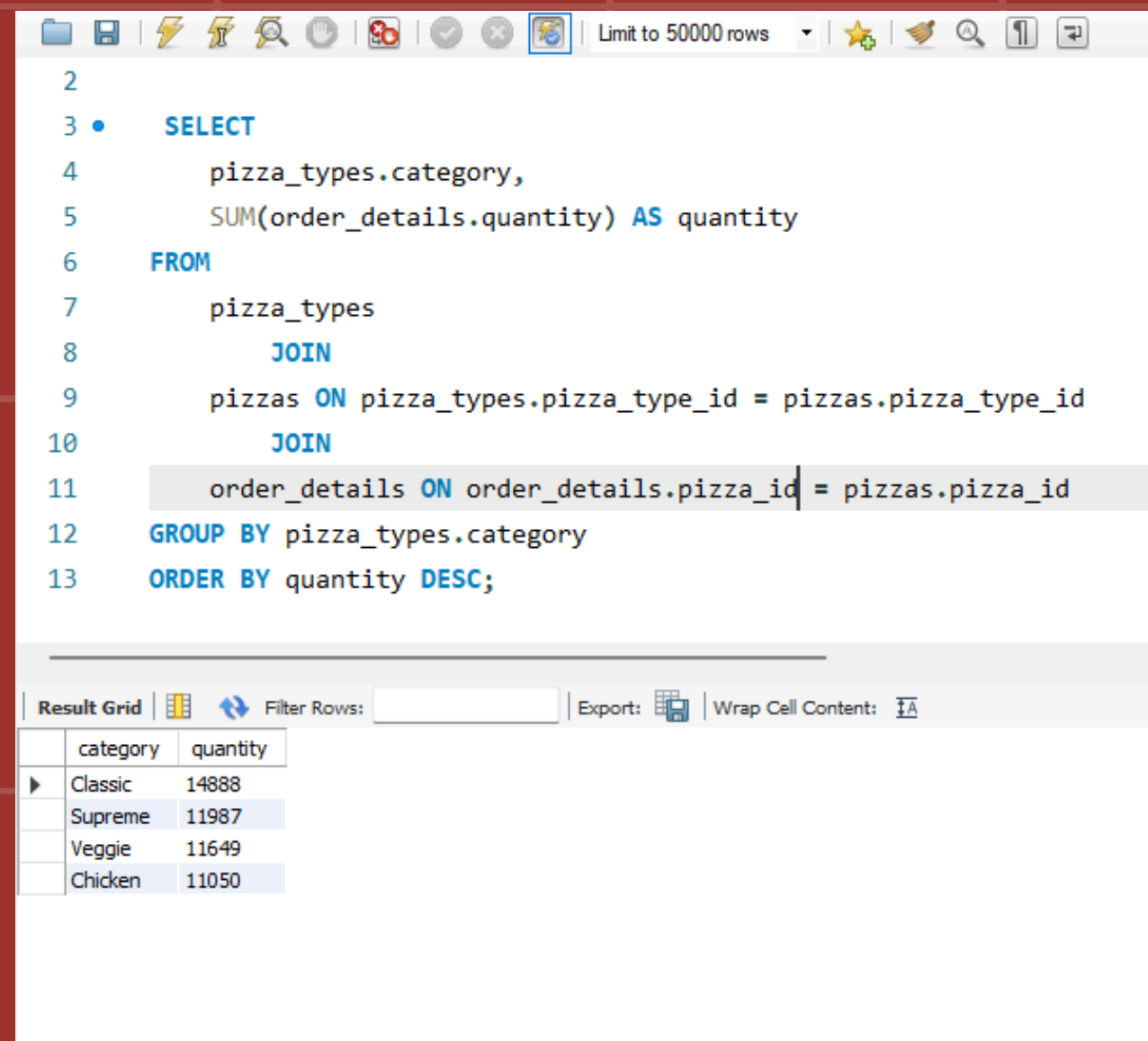
# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
1  -- List the top 5 most ordered pizza types along with their quantities.
2
3  • SELECT
4      pizza_types.name, sum(order_details.quantity) as quantity
5  FROM
6      pizza_types
7      JOIN
8      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9      JOIN
10     order_details ON order_details.pizza_id = pizzas.pizza_id
11     group by pizza_types.name order by quantity DESC LIMIT 5 ;
12
```

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



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

```
2
3 • SELECT
4     pizza_types.category,
5     SUM(order_details.quantity) AS quantity
6 FROM
7     pizza_types
8     JOIN
9     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10    JOIN
11    order_details ON order_details.pizza_id = pizzas.pizza_id
12 GROUP BY pizza_types.category
13 ORDER BY quantity DESC;
```

Below the query editor is a 'Result Grid' section with a toolbar for filtering, exporting, and wrapping cell content. The result grid displays the following data:

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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

```
1  -- Determine the distribution of orders by hour of the day.
2  • SELECT
3      HOUR(order_time), COUNT(order_id)
4  FROM
5      orders
6  GROUP BY HOUR(order_time);
```

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

	HOUR(order_time)	COUNT(order_id)
▶	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.

```
1  -- Join relevant tables to find the category-wise distribution of pizzas.
2
3 • select category , count(name) from pizza_types group by category;
```

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

	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.

```
1  -- Group the orders by date and calculate the average number of pizzas ordered per day.
2
3  •   select round(AVG(quantity),0)
4  FROM
5  (SELECT
6    orders.order_date, SUM(order_details.quantity) as quantity
7  FROM
8    orders
9    JOIN order_details ON orders.order_id = order_details.order_id
10   GROUP BY orders.order_date) AS order_quantity;
```

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

round(AVG(quantity),0)

138

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

```
1  -- Determine the top 3 most ordered pizza types based on revenue.
2  • SELECT
3      pizza_types.name,
4      SUM(order_details.quantity * pizzas.price) AS revenue
5  FROM
6      pizza_types
7      JOIN pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
8      JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
9  GROUP BY pizza_types.name
10 ORDER BY revenue DESC
11 LIMIT 3;
```

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

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



THANK YOU