

# **PIZZA SALES**



# INTRODUCTION



Hello everyone, my name is Prince Yadav. In this project, I have utilized SQL queries to analyze and solve various questions related to pizza sales. Through this analysis, I aim to uncover key insights and trends within the data, which can help inform decision-making processes and optimize sales strategies. By leveraging the power of SQL, I have been able to efficiently extract, manipulate, and interpret the data, providing a comprehensive overview of the pizza sales dynamics.

# OVERVIEW OF PROJECT



In this project, I utilized SQL queries to perform a comprehensive analysis of pizza sales data. The analysis is structured into three levels of complexity:

## Basic Analysis:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Determine the most common pizza size ordered.

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

## Intermediate Analysis:

Join the necessary tables to find the total quantity of each pizza category ordered.

Analyze the distribution of orders by hour of the day.

Find the category-wise distribution of pizzas.

Group orders by date and calculate the average number of pizzas ordered per day.

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

## Advanced Analysis:

Calculate the percentage contribution of each pizza type to total revenue.

Analyze the cumulative revenue generated over time.

Identify the top 3 most ordered pizza types based on revenue for each pizza category.

Through these analyses, the project aims to uncover key insights into sales trends, customer preferences, and revenue distribution, providing valuable data-driven recommendations for optimizing sales and marketing strategies.



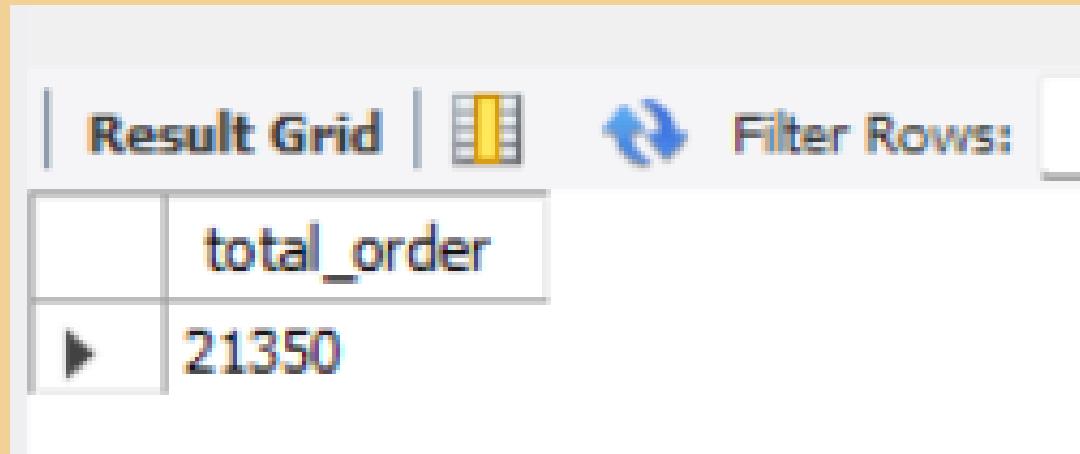
# PIZZA SALES



Retrieve the total number of orders placed.

- **SELECT**

```
COUNT(order_id) AS total_order  
FROM  
orders;
```



	total_order
▶	21350



# PIZZA SALES

Calculate the total revenue generated from pizza sales.

- `use pizzahut;`
- `SELECT`  
 `ROUND(SUM(details.quantity * pizzas.price),  
2) AS total_sales`

`FROM`  
`details`  
`JOIN`  
`pizzas ON pizzas.pizza_id = details.pizza_id;`

Result Grid	
	<code>total_sales</code>
▶	817860.05



# SALES

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;
```

The screenshot shows a MySQL Workbench interface with a result grid. The grid has two columns: 'name' and 'price'. A single row is displayed, showing 'The Greek Pizza' with a price of '35.95'. The grid has a header row with column names and a footer row with navigation icons.

	name	price
▶	The Greek Pizza	35.95



# PIZZA SALES

Identify the most common pizza size ordered.

```
SELECT
    pizzas.size, COUNT(details.order_details_id) AS order_count
FROM
    pizzas
        JOIN
    details ON pizzas.pizza_id = 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



# SALES PIZZA



determine the distribution of orders by hours of the day.

```
SELECT  
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(order_time);
```

Result Grid |  Filter Rows:

	hour	order_count
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663



# PIZZA SALES



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



# PIZZA SALES



Group the ordered 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(details.quantity) AS quantity
    FROM
        orders
    JOIN details ON orders.order_id = details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

Result Grid		Filter Rows:
avg_pizza_ordered_per_day		
138		



# PIZZA SALES



Determine top 3 pizza types based on revenue

```
SELECT
    pizza_types.name,
    SUM(details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    details ON 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



# PIZZA SALES



Calculate the percentage contribution of each pizza type of total revenue.

```
SELECT
```

```
    pizza_types.category,  
    ROUND(SUM(details.quantity * pizzas.price) / (SELECT  
        ROUND(SUM(details.quantity * pizzas.price), 2) AS total_sales  
    FROM  
        details  
        JOIN  
        pizzas ON pizzas.pizza_id = details.pizza_id) * 100,  
    2) AS revenue  
FROM  
    pizza_types  
    JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
    JOIN  
    details ON details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.category  
ORDER BY revenue DESC;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



# PIZZA SALES

Analyze the cumulative revenue generated over time.

```
select order_date,  
       sum(revenue) over(order by order_date) as cum_revenue  
  from  
    (select orders.order_date,  
           sum(details.quantity * pizzas.price) as revenue  
      from details join pizzas  
        on details.pizza_id = pizzas.pizza_id  
     join orders  
       on orders.order_id = details.order_id  
    group by orders.order_date) as sales ;
```

	order_date	cum_revenue
▶	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002

# PIZZA SALES

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((details.quantity) * pizzas.price)  as revenue
  from pizza_types join pizzas
  on pizza_types.pizza_type_id = pizzas.pizza_type_id
  join details
  on details . pizza_id = pizzas.pizza_id
  group by pizza_types. category, pizza_types.name) as a ) as b
where rn <=3;
```

▶	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	32265.70000000065