



# PIZZAMAN

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*A SQL PROJECT ON PIZZA SALES*





# ABOUT ME

Hi, Myself Dipraj Gaonkar, I have done my graduation in BSC Comp Sci , and Data Analytics course from Sevenmentor Coaching . This is my little project , In this project I have utilised SQL queries to solve questions related to pizza sales.

# QUESTIONS:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the most common pizza size ordered.

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

Determine the distribution of orders by hour of the day.

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

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

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

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

Analyze the cumulative revenue generated over time.





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

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

Total Orders : 21,350



# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
    pizzas.size, SUM(order_details.quantity) AS sum
FROM
    order_details
    JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizzas.size
ORDER BY sum DESC
LIMIT 1;
```

Most of the times customer prefers Large Sized Pizzas  
Total Number of Large Sized Pizzas ordered : 18,956

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

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

The 5 most ordered pizzas are given below

	name	sum
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371





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

**SELECT**

**HOUR(order\_time) AS hour, COUNT(order\_id)**

**FROM**

**orders**

**GROUP BY 1**

**ORDER BY 2 DESC**

Most of the Orders are placed at 12th Hour of the day

hour	COUNT(order_id)
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642

hour	COUNT(order_id)
14	1472
15	1468
11	1231
21	1198
22	663
23	28
10	8

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

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS total
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY 1
ORDER BY 2 DESC
LIMIT 3
```

Top 3 most ordered pizza based on revenue collection are :

Result Grid		 Filter Rows:
	name	total
▶	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
    )
FROM
    order_details
    JOIN
        pizzas ON order_details.pizza_id = pizzas.pizza_id) * 100,
    0) AS Percentage
FROM
    pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
        order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY 1
```

	category	Percentage
▶	Classic	27
	Veggie	24
	Supreme	25
	Chicken	24

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

```
SELECT category, name , revenue FROM
(SELECT category, name, revenue, rank() over(partition by category ORDER BY revenue DESC ) AS rnk
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 1,2 ) AS a) AS b
WHERE rnk <= 3
```

category	name	revenue
Chicken	The Thai Chicken Pizza	43434.25
Chicken	The Barbecue Chicken Pizza	42768
Chicken	The California Chicken Pizza	41409.5
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25
Classic	The Pepperoni Pizza	30161.75
Supreme	The Spicy Italian Pizza	34831.25
Supreme	The Italian Supreme Pizza	33476.75
Supreme	The Sicilian Pizza	30940.5
Veggie	The Four Cheese Pizza	32265.70000000065
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5



JOIN RELEVANT TABLES TO FIND THE  
CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY 1
```

	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

# 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(order_details.quantity * pizzas.price) AS revenue FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
JOIN orders ON order_details.order_id = orders.order_id
GROUP BY 1) AS sales
```

	order_date	cum_revenue
▶	2015-01-01	2713.850000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	8108.15
	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
	2015-01-11	25862.65
	2015-01-12	27781.7





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THANK YOU

