



# **PIZZA SALES DATA ANALYSIS**

## **DONIMOJHUB**

**A MYSQL - BASED DATA ANALYTICS PROJECT**

**BY ARYA BHATTACHARYA**



# ABOUT ME

Hi, I am **Arya Bhattacharya**, currently a 4<sup>th</sup> year Undergraduate Student in Production Engineering, Jadavpur University with strong interests in data analytics, SQL, and business insights. This is my portfolio project where i have used MySQL to analyse the pizza sales of a company named **DonimojHub**

# PROJECT OVERVIEW



**Objective :** Analyze sales data to understand order trends, customer preferences, and revenue distribution.



**Dataset:** Orders, Order Details, Pizza Types, Pizzas



**Tools used:** MySQL for data analysis, Canva for presentation

# BUSINESS QUESTIONS

-  **Basic Analysis:** Total orders, revenue, highest-priced pizza, most common pizza size, top 5 pizza types by quantity
-  **Intermediate Analysis:** Category-wise sales, hourly trends, daily averages, top pizzas by revenue
-  **Advanced Analysis:** Revenue contribution percent, cumulative revenue trend, top 3 pizzas by category & revenue



# 1. Retrieve the total number of orders placed

## QUERY

```
1 • USE donimojhub;
2   SELECT
3     COUNT(order_id) AS total_orders
4   FROM
5     ORDERS;
```

## OUTPUT

Result Grid	
	total_orders
▶	21350

# 2. Calculate the total revenue generated from pizza sales

## QUERY

```
1 • use donimojhub;
2   SELECT
3     ROUND(SUM(order_details.quantity * pizzas.price),
4           2) AS total_revenue
5   FROM
6     order_details
7     JOIN
8     pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

## OUTPUT

Result Grid	
	total_revenue
▶	817860.05



### 3. Identify the highest-priced pizza.

#### QUERY

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

#### OUTPUT

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

### 4. Identify the most common pizza size ordered

#### QUERY

```
1 -- IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED
2 •  SELECT
3     pizzas.size,
4     COUNT(order_details.order_details_id) AS countOrders
5   FROM
6     pizzas
7       JOIN
8     order_details ON pizzas.pizza_id = order_details.pizza_id
9   GROUP BY pizzas.size
10  ORDER BY countOrders DESC
11  LIMIT 1;
```

#### OUTPUT

Result Grid		Filter Rows:
	size	countOrders
▶	L	18526



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

## Q U E R Y

```
-- IDENTIFY THE 5 MOST COMMON PIZZA types ORDERED along with their quantities

SELECT
    pizza_types.name,
    sum(order_details.quantity) as orderCount
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 orderCount desc
        limit 5;
```

## O U T P U T

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



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

## QUERY

```
1  -- Join the necessary tables to find the total quantity of each pizza category ordered.  
2  
3 • SELECT  
4      pizza_types.category, SUM(order_details.quantity) AS summary  
5  FROM  
6      pizza_types  
7          JOIN  
8      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
9          JOIN  
10     order_details ON order_details.pizza_id = pizzas.pizza_id  
11    GROUP BY pizza_types.category  
12   ORDER BY summary DESC;
```

## OUTPUT

	category	summary
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



## 7. Determine the distribution of orders by hour of the day

### Q U E R Y

```
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));
```

### O U T P U T

	HOUR(order_time)	COUNT(order_id)
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468

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

### O U T P U T

### Q U E R Y

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

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

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

## QUERY

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

## OUTPUT

	dataset
▶	138

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

## QUERY

```
1  -- Determine the top 3 most ordered pizza types based on revenue.  
2 • select pizza_types.name , sum(order_details.quantity * pizzas.price) as revenue  
3   from pizza_types join pizzas on pizza_types.pizza_type_id=pizzas.pizza_type_id  
4   join order_details on order_details.pizza_id=pizzas.pizza_id  
5   group by pizza_types.name  
6   order by revenue desc  
7   limit 3;
```

## OUTPUT

Result Grid | Filter Rows:

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

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

## Q U E R Y

```
1      -- Calculate the percentage contribution of each pizza type to total revenue
2 •   select pizza_types.category,
3     (sum(order_details.quantity * pizzas.price) / (select round(sum(order_details.quantity*pizzas.price),2) as total_sales
4       from order_details join pizzas on pizzas.pizza_id=order_details.pizza_id) ) * 100 as revenue
5     from pizza_types join pizzas on pizza_types.pizza_type_id= pizzas.pizza_type_id
6     join order_details on order_details.pizza_id = pizzas.pizza_id
7     group by category
8     order by revenue desc;
```

## O U T P U T

Result Grid | Filter Rows:

	category	revenue
▶	Classic	26.90596025566967
	Supreme	25.45631126009862
	Chicken	23.955137556847287
	Veggie	23.682590927384577

## 12. Analyze the cumulative revenue generated over time

### QUERY

```
1 -- Analyse the cumulative revenue generated over time
2
3 • select order_date, sum(revenue) over (order by order_date) as cum_revenue
4   from
5   (select orders.order_date,
6    sum(order_details.quantity * pizzas.price) as revenue
7    from order_details join pizzas on order_details.pizza_id=pizzas.pizza_id
8    join orders on orders.order_id=order_details.order_id
9    group by order_date) as sales;
```

### OUTPUT

	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

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

### QUERY

```
1 -- Determine the top 3 most ordered pizza types based on revenue for each pizza category
2 • select name, revenue from
3   (select category, name, revenue,
4    rank() over (partition by category order by revenue desc) as rnk from
5   (select pizza_types.category, pizza_types.name, sum(order_details.quantity * pizzas.price) as revenue
6    from pizza_types join pizzas on pizza_types.pizza_type_id=pizzas.pizza_type_id
7    join order_details on order_details.pizza_id=pizzas.pizza_id
8    group by category, name) as a) as b
9    where rnk <=3;
```

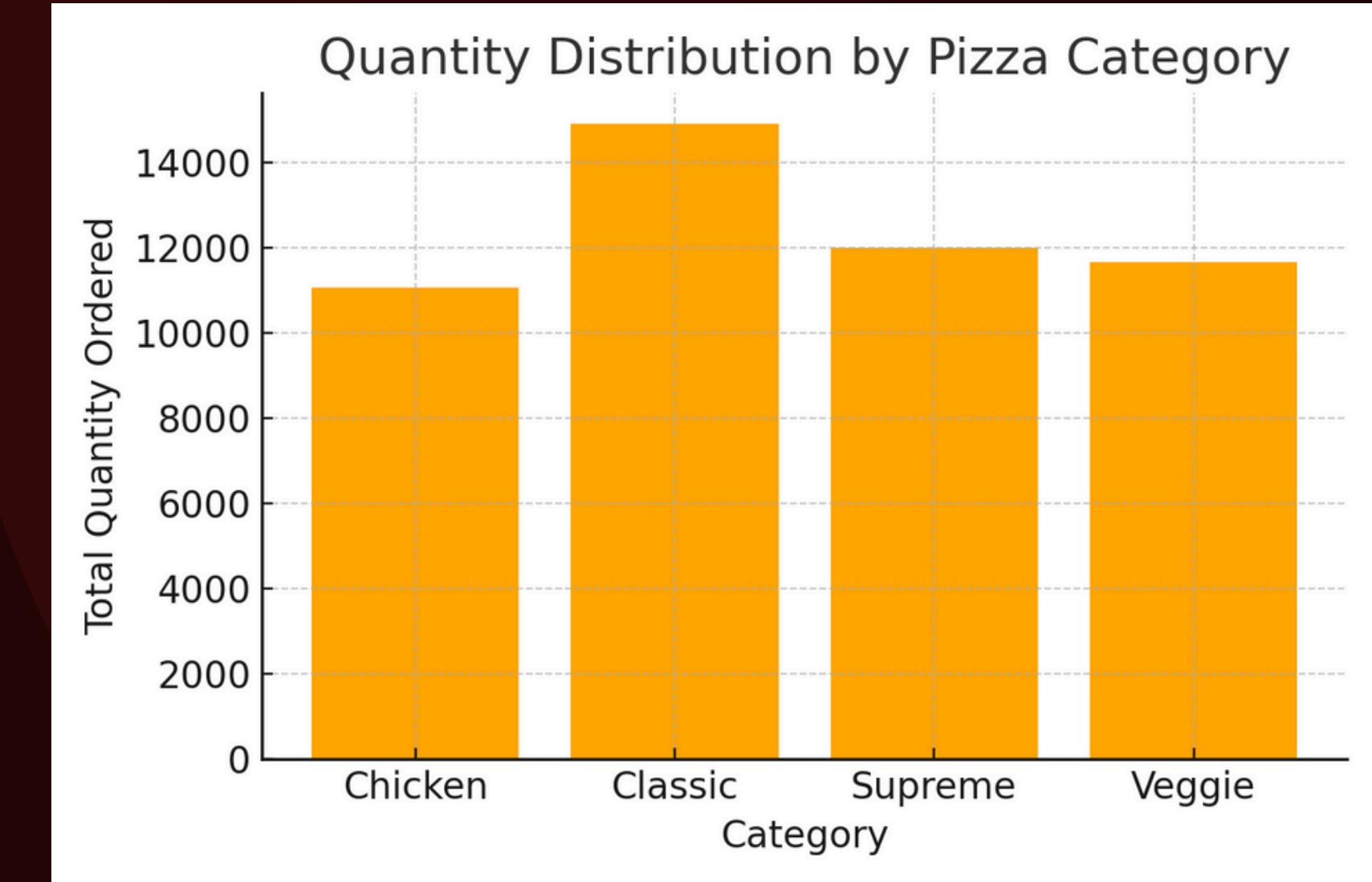
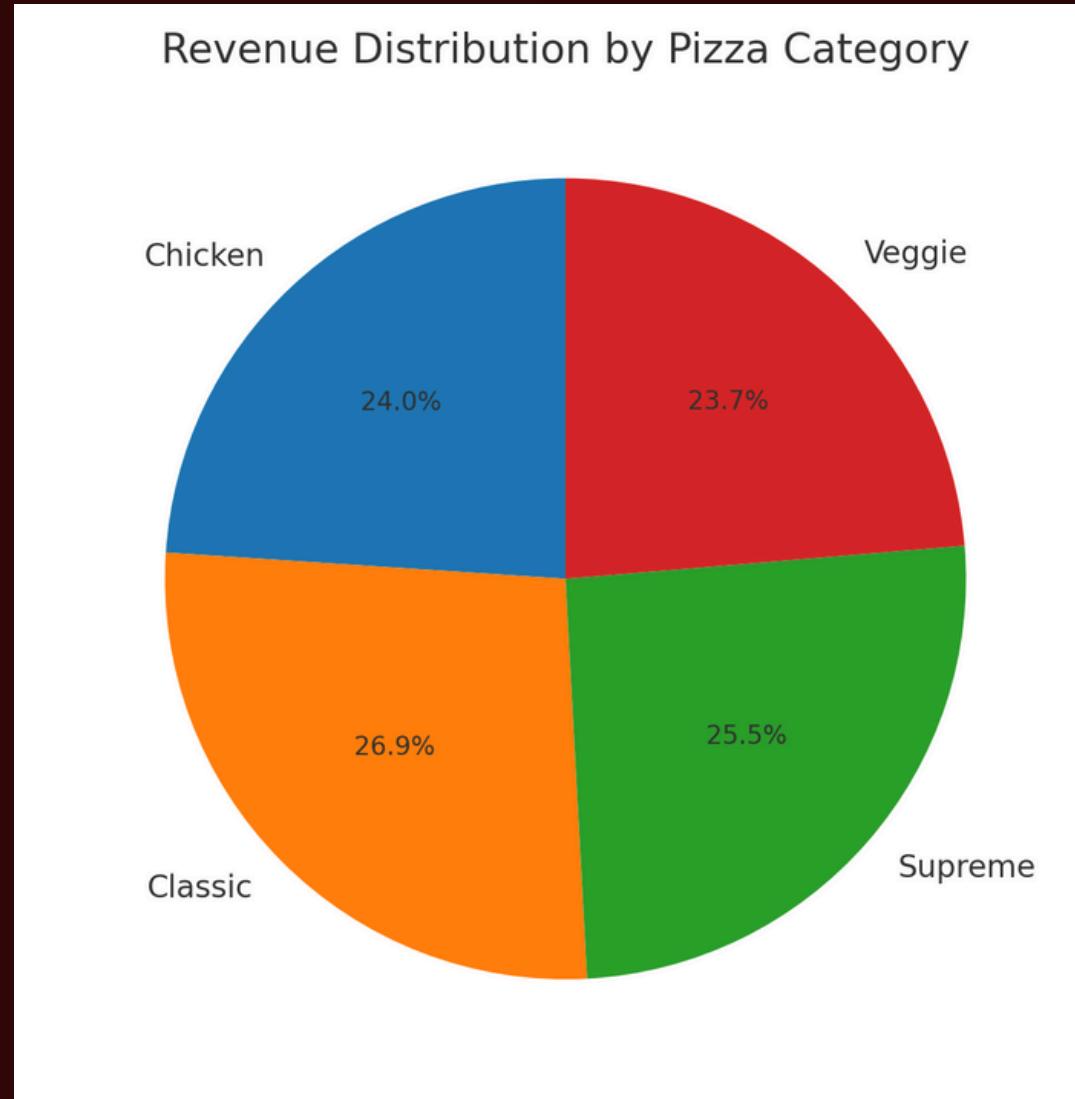
### OUTPUT

	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



# SALES REPORT

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# TOP-SELLING PIZZAS TO FOCUS MARKETING ON (BY REVENUE)



THAI CHICKEN PIZZA - ₹ 43,434.25



CALIFORNIA CHICKEN PIZZA - ₹ 41,409.50

BARBECUE CHICKEN PIZZA - ₹ 42,768.00



Remarks: Can be pushed in social media ads & combo offers to boost repeat orders.



## BEST TIME SLOTS FOR OFFERS (BY ORDER COUNT)

- Lunch Rush: 12 PM (2,520 orders), 1 PM (2,455 orders)
- Dinner Peak: 6 PM (2,399 orders), 5 PM (2,336 orders)

Remarks: Consider discounts in off-peak hours (e.g., 3–5 PM) to increase traffic.



## CATEGORIES THAT NEED PROMOTION (LOWEST TOTAL REVENUE)

- Veggie – ₹1,93,690.45
- Chicken – ₹1,95,919.50

Remarks: Run seasonal specials or bundle deals for these to boost visibility..

# THANK YOU

## CONTACT INFORMATION:

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