

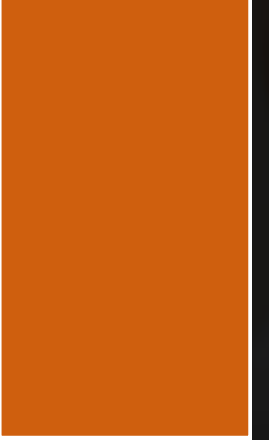


SQL QUERIES ON PIZZA SALES



20
25





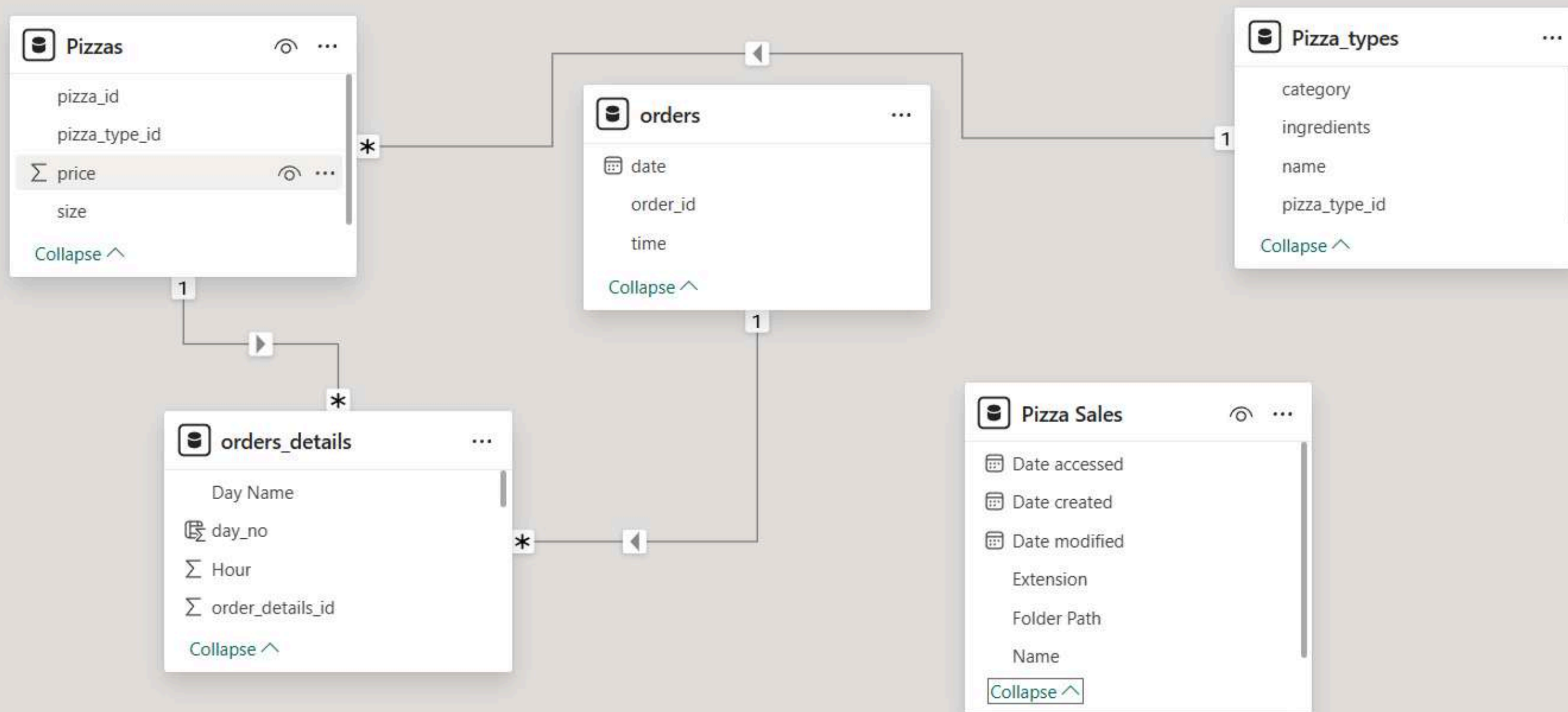
INTRODUCTION

Hi! My name is [Anishi Jain], and I am passionate about data and analytics. I have hands-on experience working with SQL for data querying, analysis, and reporting. This PDF contains a collection of SQL queries I've written to demonstrate my understanding of database operations, including SELECT, JOIN, GROUP BY, HAVING, and subqueries. These examples reflect practical scenarios commonly encountered in real-world datasets.

Whether it's retrieving meaningful insights, cleaning data, or performing complex joins, I enjoy using SQL to solve problems and tell stories through data.



DATABASE



SQL QUERIES



Basic:

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

Intermediate:

- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the 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:

- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

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

Result Grid	
	total_orders
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
SELECT
    ROUND(SUM(orders_details.quantity * pizzas.price),
          2) AS total_sales
FROM
    orders_details
    JOIN
    pizzas ON orders_details.pizza_id = pizzas.pizza_id;
```

Result Grid	
	total_sales
▶	817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA

```
SELECT
  pizza_types.name, (pizzas.price) AS Max_high_price
FROM
  pizza_types
  JOIN
  pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

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

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
  pizzas.size,
  COUNT(orders_details.quantity) AS Most_common_size
FROM
  pizzas
  JOIN
  orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY Most_common_size DESC
LIMIT 1;
```

Result Grid			Filter Rows:
	size	Most_common_size	
▶	L	18526	

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

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

Result Grid			Filter 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



```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS total_quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category;
```

Result Grid			Filter Rows:
	category	total_quantity	
▶	Classic	14888	
	Veggie	11649	
	Supreme	11987	
	Chicken	11050	



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY



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

Result Grid   Filter		
	order_count	hour
	1231	11
	2520	12
	2455	13
	1472	14
	1468	15
	1920	16
	2336	17
	2399	18
	2009	19
	1642	20
	1198	21
	663	22
	28	23
	8	10
	1	9



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



GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

```
• SELECT
    ROUND(AVG(quantity), 0)
FROM
    (SELECT
        orders.order_date, SUM(orders_details.quantity) AS quantity
    FROM
        orders
    JOIN orders_details ON orders.order_id = orders_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

Result Grid		Filter Rows:
	Avg_pizza_order_per_day	
▶	138	



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS total_revenue
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza_types.name
ORDER BY total_revenue DESC
LIMIT 3;
```

Result Grid			Filter Rows:
	name	total_revenue	
▶	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(orders_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(orders_details.quantity * pizzas.price),
            2) AS total_sales
    FROM
        orders_details
    JOIN
        pizzas ON orders_details.pizza_id = pizzas.pizza_id)) * 100,
    2) AS total_revenue
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza_types.category
ORDER BY total_revenue;
```

Result Grid			Filter Rows:
	category	total_revenue_percentage	
▶	Veggie	23.68	
	Chicken	23.96	
	Supreme	25.46	
	Classic	26.91	

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(orders_details.quantity * pizzas.price) as revenue
   from orders
   join orders_details on orders.order_id = orders_details.order_id
   join pizzas on orders_details.pizza_id = pizzas.pizza_id
   group by orders.order_date ) as sales;
```

Result Grid	Filter Rows:
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

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 rn
   from
    (select pizza_types.category, pizza_types.name, sum(orders_details.quantity * pizzas.price) as revenue
     from pizza_types
     join pizzas on
      pizza_types.pizza_type_id = pizzas.pizza_type_id
     join orders_details on
      orders_details.pizza_id = pizzas.pizza_id
     group by pizza_types.category, pizza_types.name) as A) as B
 where rn <= 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	32265.700000000065
	Veggie	The Mexicana Pizza	26780.75
	Veggie	The Five Cheese Pizza	26066.5

Pizza's Sales Analysis Dashboard

₹ 817.52K

Total revenue

21K

Total no of orders

₹ 38

Avg order value

50K

Total no of pizza sold

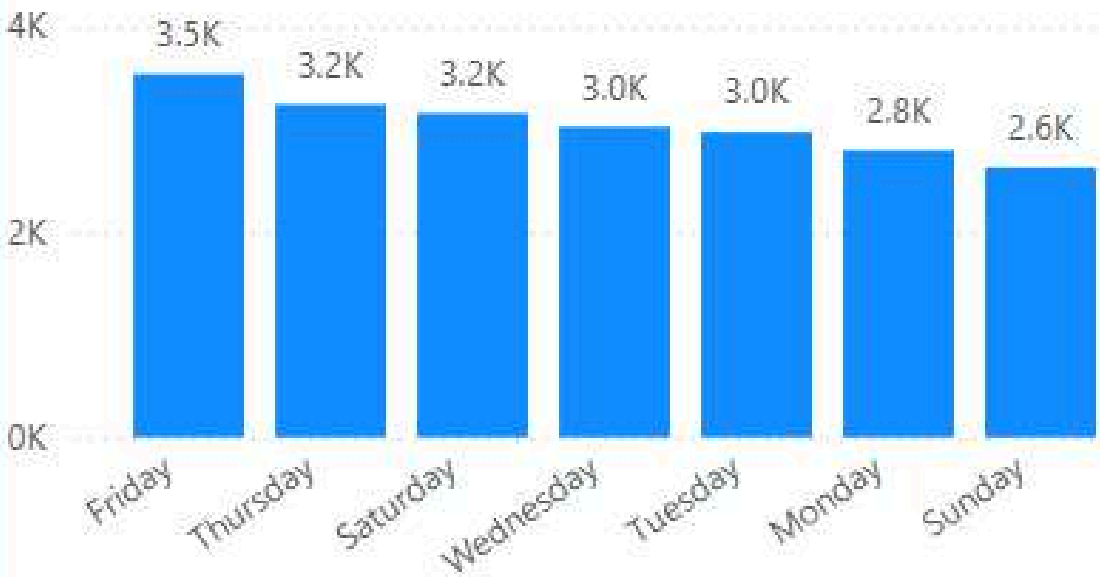
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Avg pizza per order

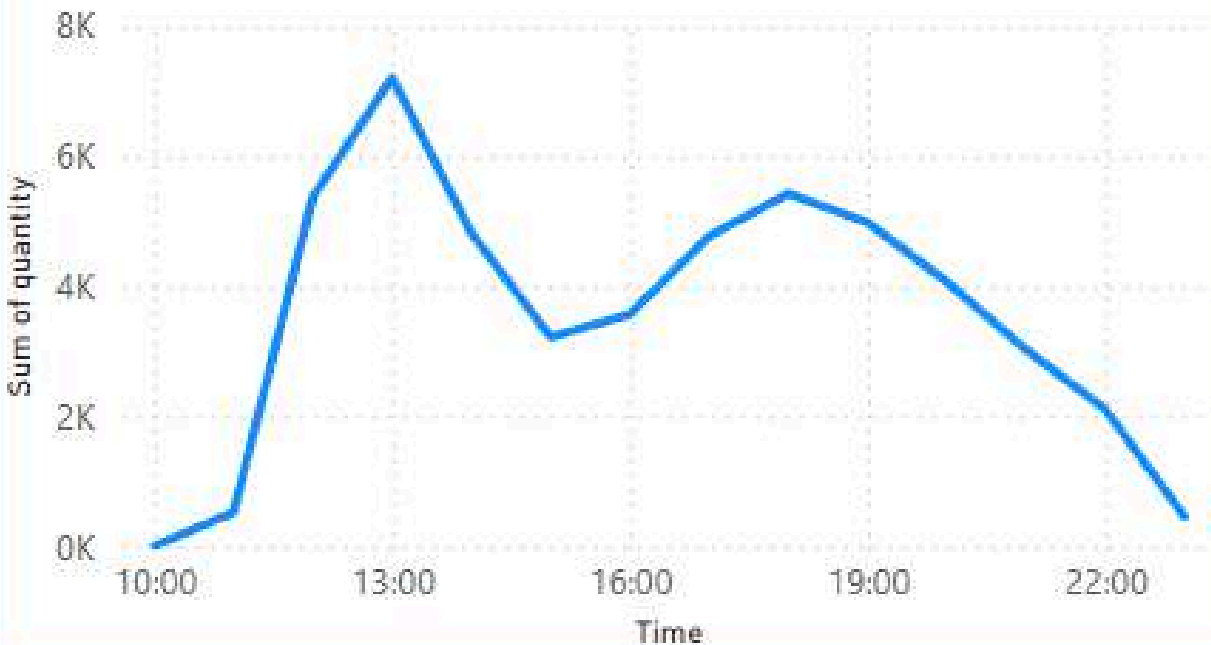
Pizza Category

All

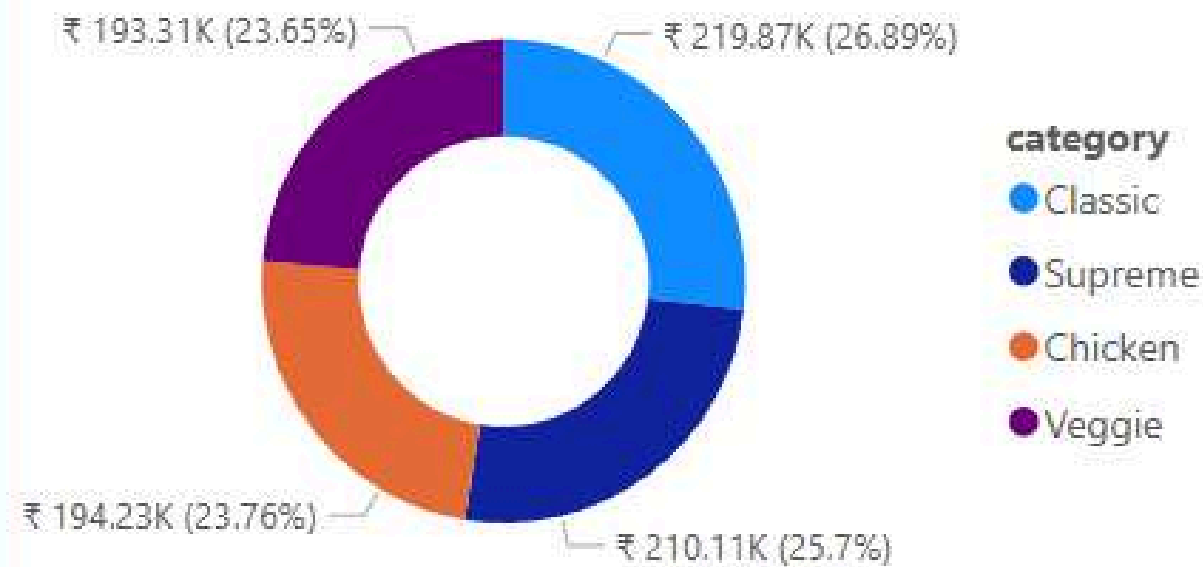
Total no of orders by Day Name



Sum of quantity by Time



Total revenue by category



Bottom 5 Pizzas Generating most sales

The Brie Carre Pizza

₹ 11,520
Total revenue

The Green Garden Pizza

₹ 13,890
Total revenue

The Mediterranean Pizza

₹ 15,436
Total revenue

Top 5 Pizza Sales

The Thai Chicken Pizza

₹ 42,911
Total revenue

The Barbecue Chicken Pizza

₹ 42,276
Total revenue

The California Chicken Pizza

₹ 40,742
Total revenue

Top 5 Pizzas ordered most

