



BY MIDHUN N S

- TURNING SLICES INTO INSIGHTS -
ONE QUERY AT A TIME

WELCOME TO PIZZA QUERY

SOLVING 13 REAL WORLD BUSINESS
QUESTIONS THROUGH DATA





PIZZA SALES ANALYSIS USING SQL

Hello, my name is Midhun N S. In this project, I have leveraged Structured Query Language (SQL) to analyze and extract valuable business insights from a Pizza Sales dataset. The objective was to solve real-world sales-related queries that reflect the performance, trends, and customer preferences of a pizza business.

Through this project, I wrote and executed 13 SQL queries covering a range of analytical tasks including:

- *Revenue and order trends
- *Best-selling products
- *Customer ordering behavior
- *Time-based performance analysis

This hands-on project strengthened my skills in data exploration, aggregation, filtering, joins, and performance analysis, making it a strong addition to my data portfolio



WHAT'S COOKING IN PIZZA QUERY?

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BASIC LEVEL ANALYSIS

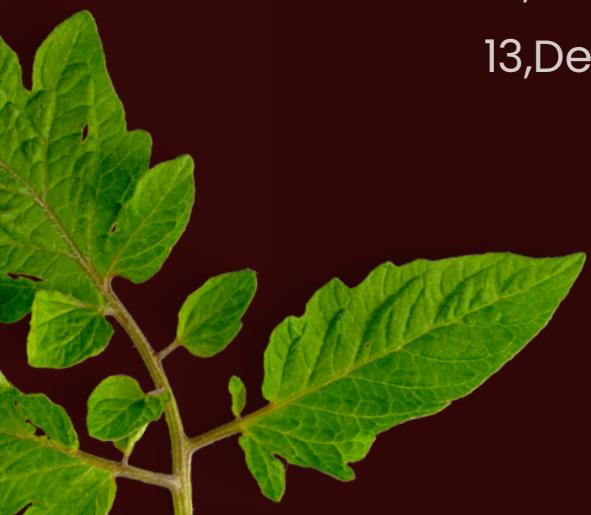
- 1,Retrieve the total number of orders placed.
- 2,Calculate the total revenue generated from pizza sales.
- 3,Identify the highest-priced pizza.
- 4,Identify the most common pizza size ordered.
- 5,List the top 5 most ordered pizza types along with their quantities.

INTERMEDIATE LEVEL ANALYSIS

- 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.

ADVANCED LEVEL ANALYSIS

- 11,Calculate the percentage contribution of each pizza type to total revenue.
- 12,Analyze the cumulative revenue generated over time.
- 13,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(order_details.quantity * pizzas.price),2) AS total_sales
```

```
FROM
```

```
    order_details
```

```
    JOIN
```

```
    pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Result Grid	
	total_sales
▶	817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA.

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- **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;
```

	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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```
1 • SELECT
2     pizzas.size,
3     COUNT(order_details.order_details_id) AS order_count
4
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 order_count DESC;
```

Result Grid | Filter

	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

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- **SELECT**

```
pt.category, SUM(o.quantity) AS Quantity  
FROM  
    pizza_types AS pt  
        JOIN  
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id  
        JOIN  
    order_details AS o ON o.pizza_id = p.pizza_id  
GROUP BY pt.category  
ORDER BY Quantity DESC;
```

	category	Quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

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```
2 •   SELECT
3       pt.name, SUM(o.quantity) AS Quantity
4   FROM
5       pizza_types AS pt
6           JOIN
7       pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
8           JOIN
9       order_details AS o ON o.pizza_id = p.pizza_id
10      GROUP BY pt.name
11      ORDER BY Quantity DESC
12      LIMIT 5;
13
14
```

	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

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

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```
2 •   SELECT
3       HOUR(order_time) AS Hour, COUNT(order_id) AS Order_count
4   FROM
5       orders
6   GROUP BY HOUR(order_time);
```

	Hour	Order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920

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

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- **SELECT**
 category, COUNT(name)
FROM
 pizza_types
GROUP BY category;

	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.

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```
1 •   SELECT
2           ROUND(AVG(quantity)) AS avg_pizza_ordered_per_day
3   FROM
4     (SELECT
5         o1.order_date, SUM(o2.quantity) AS quantity
6     FROM
7         orders AS o1
8     JOIN order_details AS o2 ON o1.order_id = o2.order_id
9     GROUP BY o1.order_date) AS order_quantity;
```

	avg_pizza_ordered_per_day
▶	138

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

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```
2 •  SELECT
3      pt.name, ROUND(SUM(o.quantity * p.price)) AS Revenue
4  FROM
5      pizza_types AS pt
6          JOIN
7      pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
8          JOIN
9      order_details AS o ON o.pizza_id = p.pizza_id
10     GROUP BY pt.name
11     ORDER BY Revenue DESC
12     LIMIT 3;
```

	name	Revenue
▶	The Thai Chicken Pizza	43434
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41410

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

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```
SELECT pt.category,  
ROUND((ROUND(SUM(o.quantity * p.price)) /  
      (SELECT ROUND(SUM(o.quantity * p.price), 2) AS total_revenue  
       FROM order_details AS o  
       JOIN pizzas AS p  
         ON o.pizza_id = p.pizza_id)) * 100, 2) AS Revenue  
FROM pizza_types AS pt  
JOIN pizzas AS p  
  ON pt.pizza_type_id = p.pizza_type_id  
JOIN order_details AS o  
  ON o.pizza_id = p.pizza_id  
GROUP BY pt.category  
ORDER BY Revenue DESC;
```

	category	Revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

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```
SELECT order_date,
       SUM(Revenue) OVER (ORDER BY order_date) AS cum_revenue
  FROM(
    SELECT o.order_date,
           SUM(o1.quantity*p.price) AS Revenue
      FROM order_details AS o1
     JOIN pizzas AS p
       ON o1.pizza_id = p.pizza_id
     JOIN orders AS o
       ON o.order_id = o1.order_id
      GROUP BY o.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
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.500000000001
	2015-01-16	36937.650000000001

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

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```
SELECT name, revenue
FROM
(SELECT category, name, revenue,
RANK() OVER(PARTITION BY category ORDER BY revenue DESC) AS rn
FROM
(SELECT pt.category, pt.name,
SUM(o.quantity*p.price) AS revenue
FROM pizza_types AS pt
JOIN pizzas AS p
ON pt.pizza_type_id = p.pizza_type_id
JOIN order_details AS o
ON o.pizza_id = p.pizza_id
GROUP BY pt.category, pt.name) AS a) AS b
WHERE rn <= 3 ;
```

Result Grid		Filter Rows:	Export:
	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	
	The Sicilian Pizza	30940.5	
	The Four Cheese Pizza	32265.70000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	



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**THANK YOU
FOR ATTENTION**