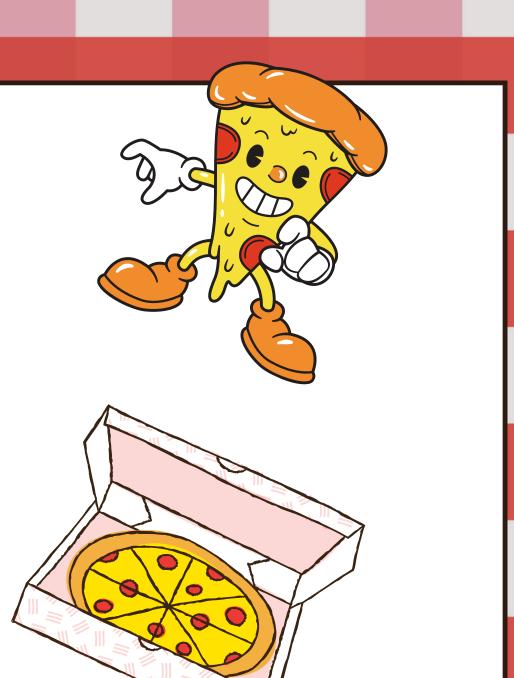
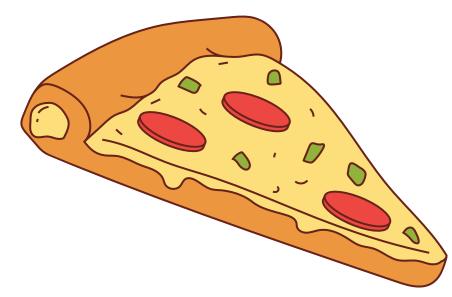


# Pizza Sales Analysis





Hello Myself Nidhi Dewangan. In this project I have utilized Sql queries to solve questions related to pizza sales.

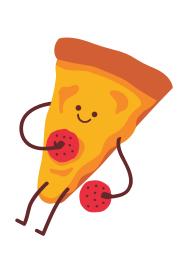
### Project's Aim

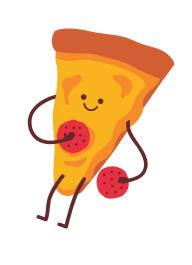
This SQL Project on sales pizza reports aims to leverage data analysis techniques to extract valuable insights from a database, enabling stakeholders to make informed decisions and drive business growth in the competitive pizza industry.

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

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

Calculate the total revenue generated from pizza sales.



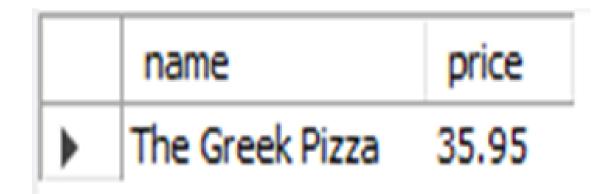


	Total_Revenue	
•	817860.05	

#### 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;
```

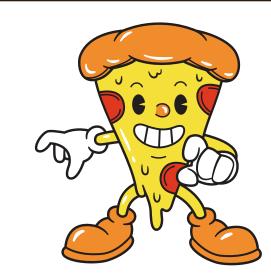
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#### Retrieve the total number of orders placed.

```
SELECT
COUNT(order_id) AS Total_orders
FROM
order_details;
```



```
Total_orders

48620
```

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



	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.

```
Pizza_types.category,
    SUM(order_details.quantity) AS quantity

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.category

ORDER BY quantity DESC;
```

	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

```
SELECT

HOUR(order_time) AS hour, COUNT(order_id) AS order_count

FROM

orders

GROUP BY hour;
```

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

#### 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
orders.order_id = order_details.order_id
group by orders.order_date) as sales;
```

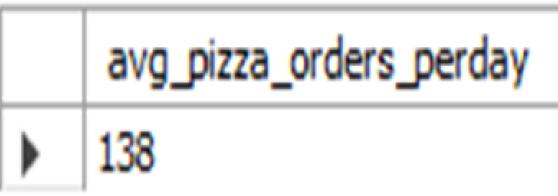
order_date	cum_revenue
2015-01-01	2713.8500000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.4
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343.50000000001
2015-01-16	36937.65000000001
2015-01-17	39001.75000000001
2015-01-18	40978.600000000006
2015-01-19	43365.75000000001
2015-01-20	45763.65000000001
2015-01-21	47804.20000000001
2015-01-22	50300.90000000001
2015-01-23	52724.600000000006
2015-01-24	55013.850000000006

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

 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.



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

```
select name, revenue from
RANK() OVER (PARTITION BY category ORDER BY revenue DESC) AS rn
 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 pizza_types.category, pizza_types.name
 ) AS a) as b
 where rn <= 3;
```

	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

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

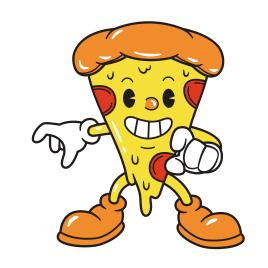
```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue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

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

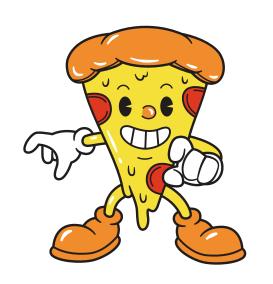
### Calculate the percentage contribution of each pizza type to total revenue.

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

	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



### Thankyou



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