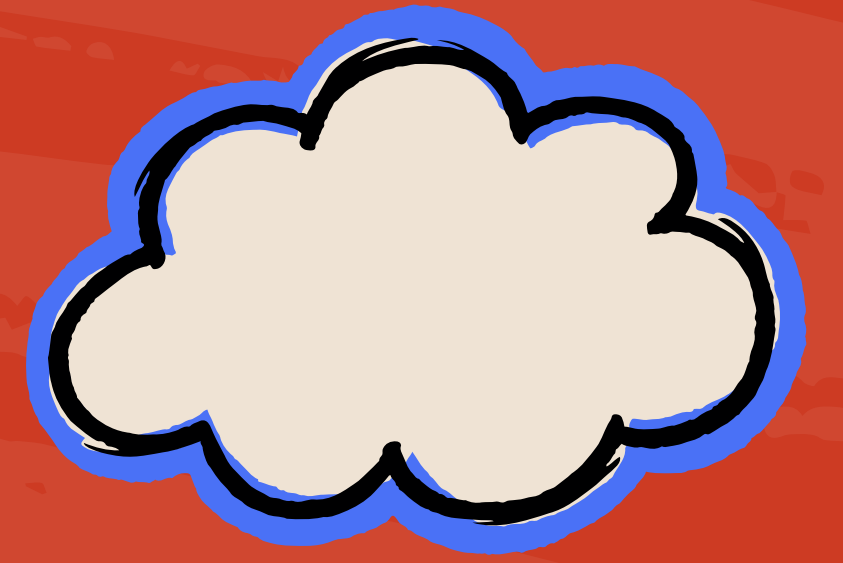


MySQL Project On Pizza Sales





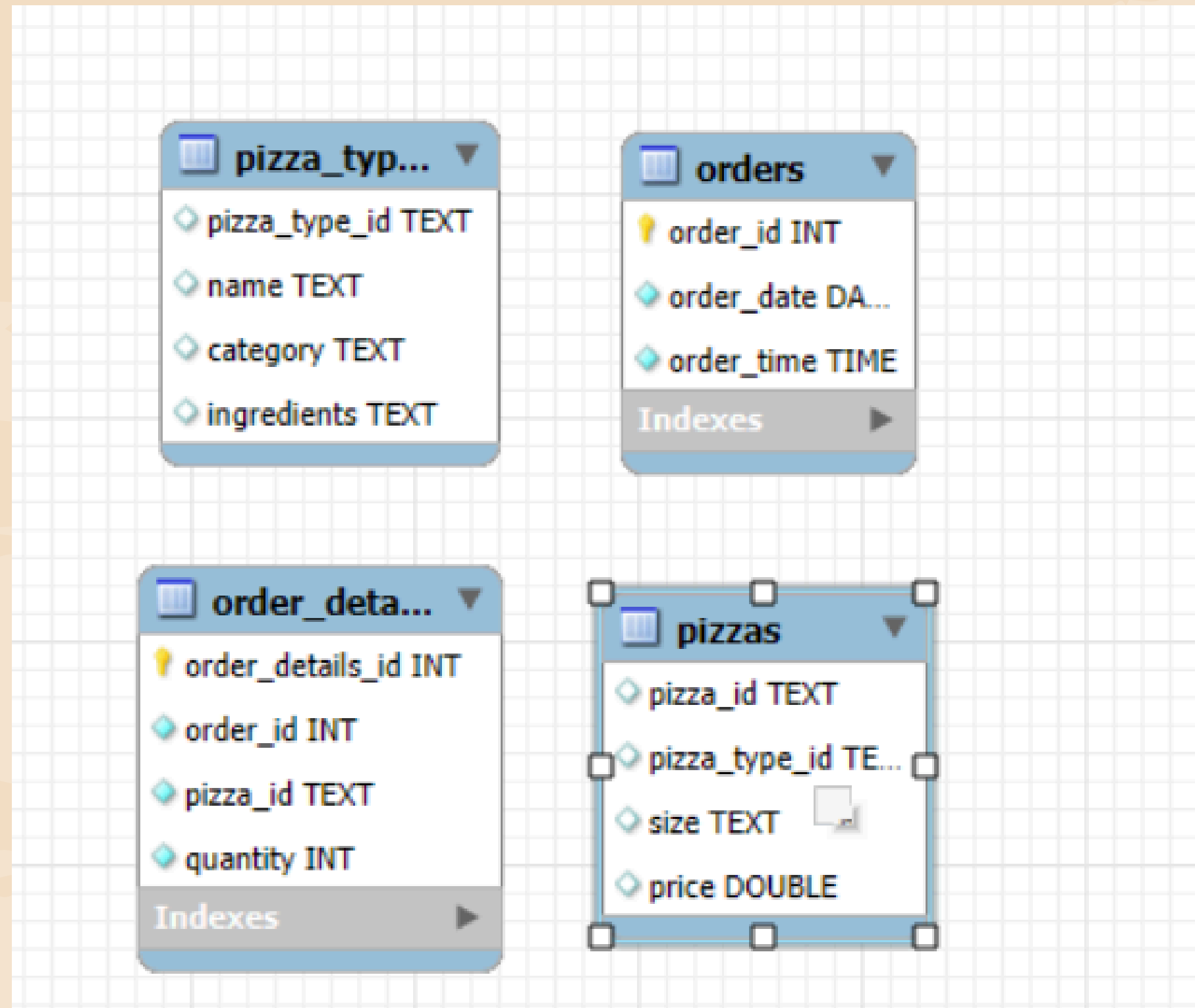
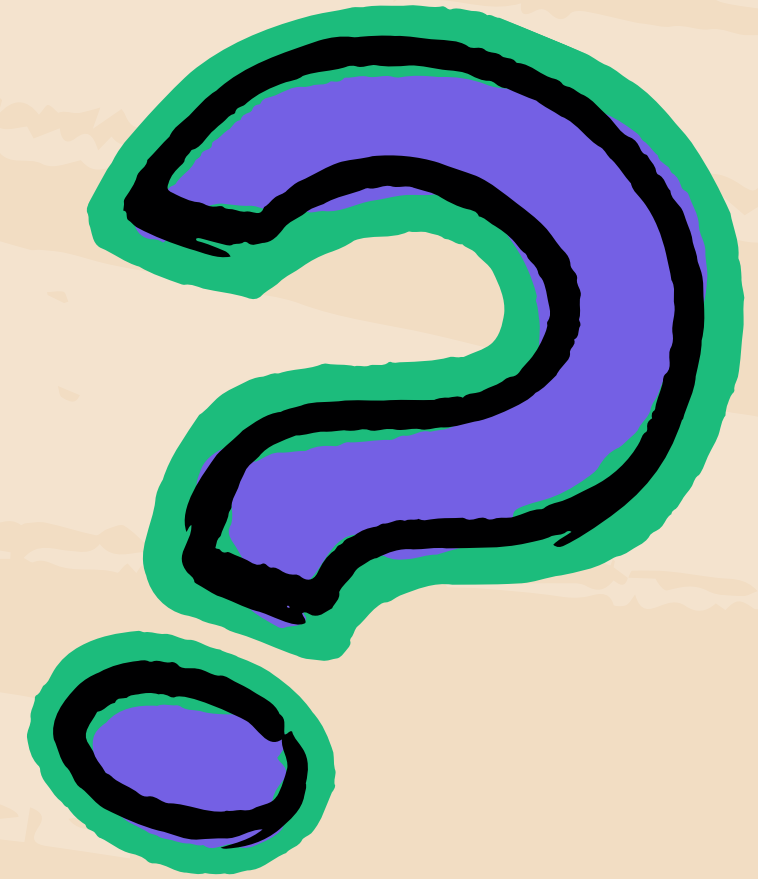
HELLO

My name is Mahi and I have created this project to analyze pizza sales data using SQL queries. Through this analysis, I aim to uncover key trends in customer preferences ,revenue generation and popular pizza types to help businesses make data driven decision. I hope you find the insight helpful.





Schema of pizza sales




Retrieve the total number of order 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(pizzas.price*order_details.quantity),2) AS total_sales  
FROM order_details  
JOIN pizzas  
ON order_details.pizza_id=pizzas.pizza_id;
```



Result Grid		Filter Rows:
	total_sales	
▶	817860.05	

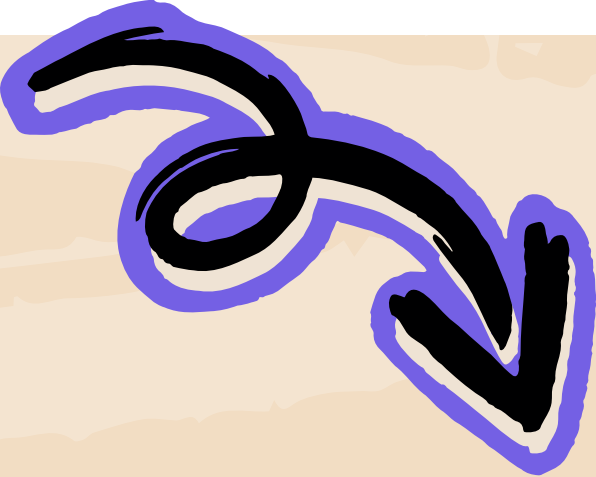
Identify the highest-priced pizza

```
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;
```

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

Identify the most common pizza size ordered.

```
SELECT pizzas.size,COUNT(order_details.order_details_id) AS order_count
FROM pizzas
JOIN order_details
ON
pizzas.pizza_id=order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```



Result Grid			Filter Rows:
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	




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

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






Result Grid			Filter Rows:
	category	total_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(order_time);
```



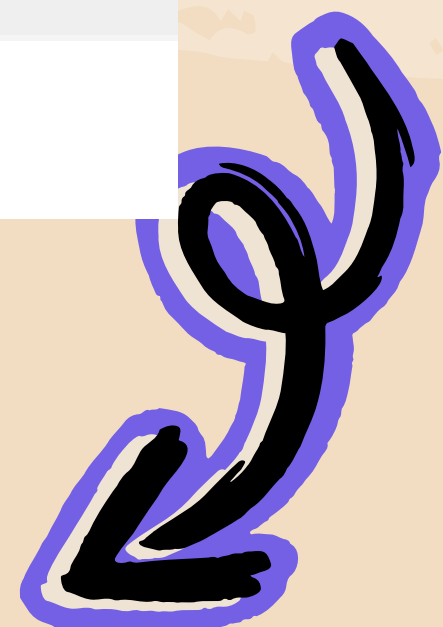
Result Grid   Filter Rows:		
	Hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198





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.

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

Result Grid   Filter Rows:	
	avg_pizza_ordered_per_day
▶	138

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

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

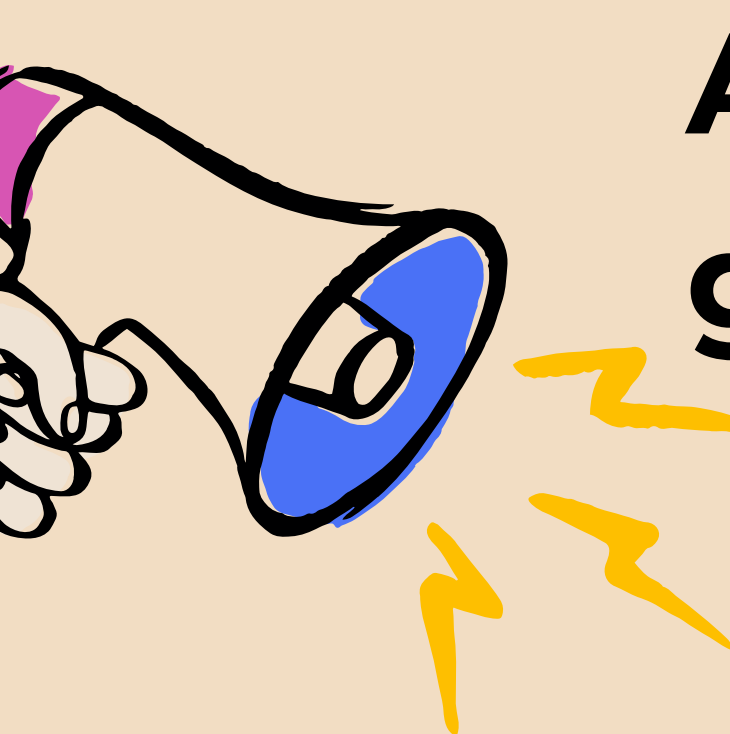
Result Grid			Filter Rows:	
	name	total_revenue		
▶	The Thai Chicken Pizza	43434.25		
	The Barbecue Chicken Pizza	42768		
	The California Chicken Pizza	41409.5		

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

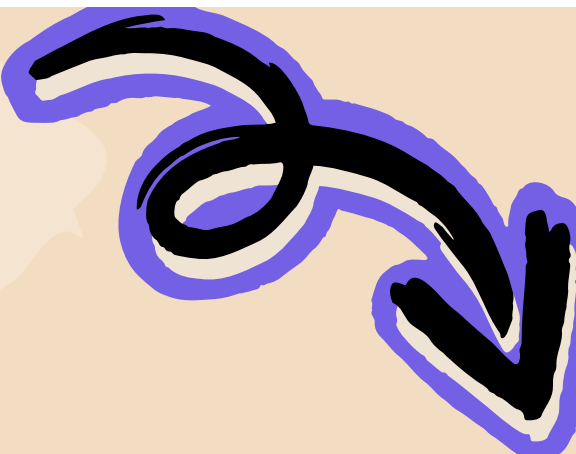
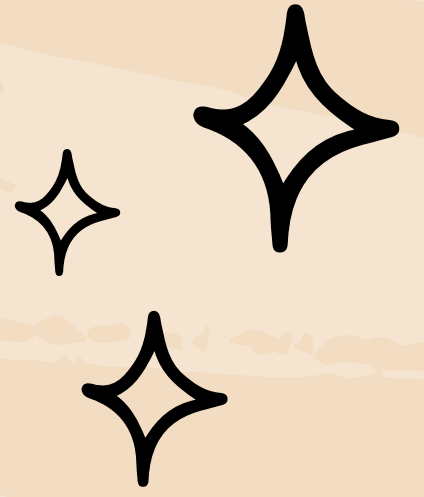
```
ROUND(SUM(order_details.quantity*pizzas.price) / (SELECT ROUND(SUM(pizzas.price*order_details.quantity),2) AS total_sales
FROM order_details
JOIN pizzas
ON order_details.pizza_id=pizzas.pizza_id)*100,2) AS revenue
FROM pizza_types
JOIN pizzas
ON pizzas.pizza_type_id= pizza_types.pizza_type_id
JOIN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

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

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 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	

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

```
SELECT 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(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;
```

Result Grid			Filter Rows:	Export:	Wrap C
	name	revenue			
▶	The California Chicken Pizza	41409.5			
	The Southwest Chicken Pizza	34705.75			
	The Chicken Alfredo Piz	The Southwest Chicken Pizza			
	The Chicken Pesto Pizza	16701.75			
	The Pepperoni Pizza	30161.75			
	The Greek Pizza	28454.1000000000013			
	The Italian Capocollo Pizza	25094			
	The Napolitana Pizza	24087			
	The Big Meat Pizza	22968			
	The Pepperoni, Mushroom, and Peppers Pizza	18834.5			
	The Sicilian Pizza	30940.5			

Thank You!

I hope this analysis provided valuable insights into pizza sales trends and customer behavior. Data can be a powerful tool for driving useful decisions and I'm passionate about exploring new opportunities for analysis.

