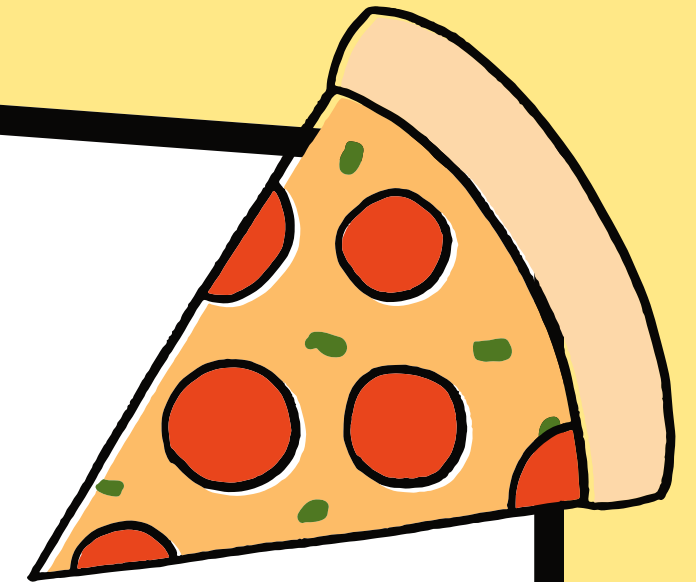




SQL Project

on

Pizza Sales



Hello!

Welcome to my SQL Project

My name is Sowmya Kodityala. I'm excited to share my SQL project analyzing pizza sales data.

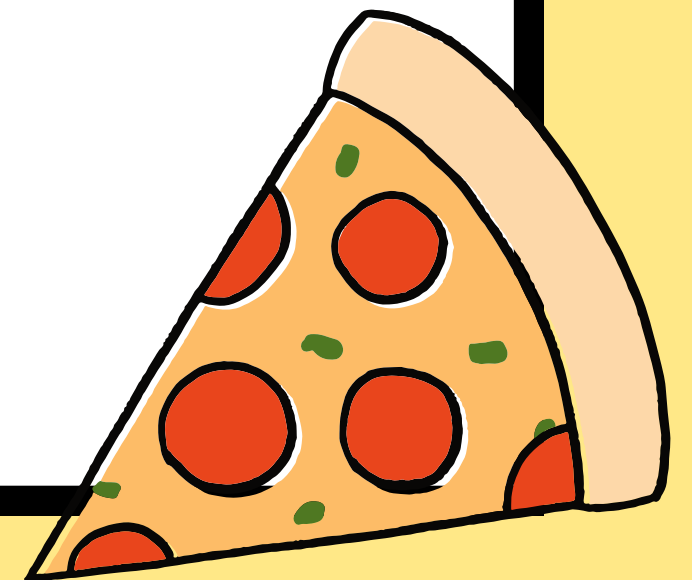
In my SQL project analyzing pizza sales data, I delved into various aspects of the business, ranging from basic queries like retrieving the total number of orders and calculating total revenue to more advanced analyses such as determining the percentage contribution of each pizza type to total revenue and analyzing the cumulative revenue generated over time. Through this project, I gained hands-on experience in SQL querying, data analysis, and database management, which has equipped me with valuable skills for interpreting and deriving insights from complex datasets..

Question #1

Retrieve the total number of orders placed.

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

Result Grid	
	total_orders
▶	21350

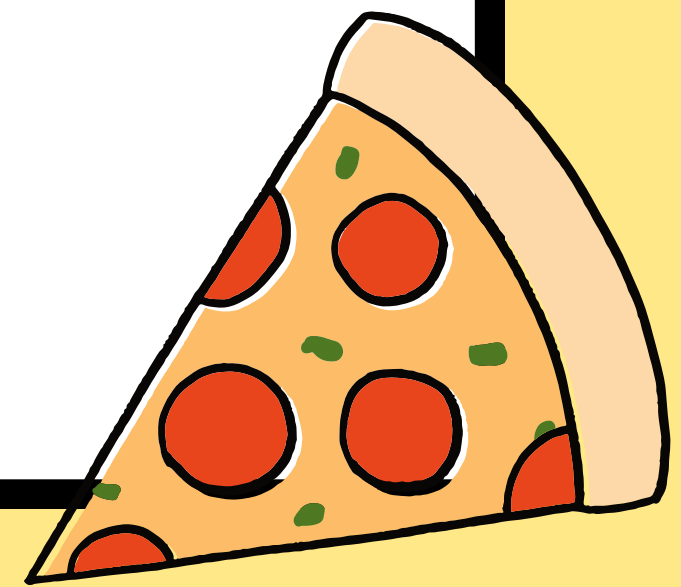


Question #2

Calculate the total revenue generated from pizza sales.

```
SELECT
    round(sum(order_details.quantity * pizzas.price),2) as Total_Revenue
FROM
    order_details
    JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

Result Grid		Filter
	Total_Revenue	
▶	817860.05	

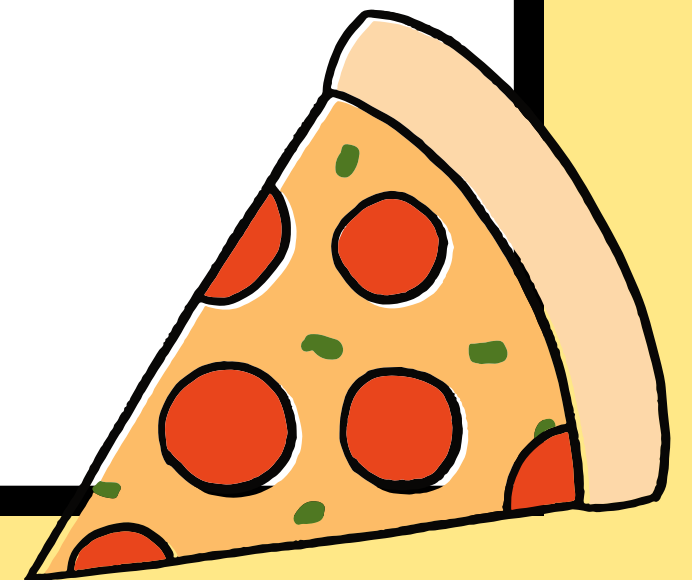


Question #3

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	

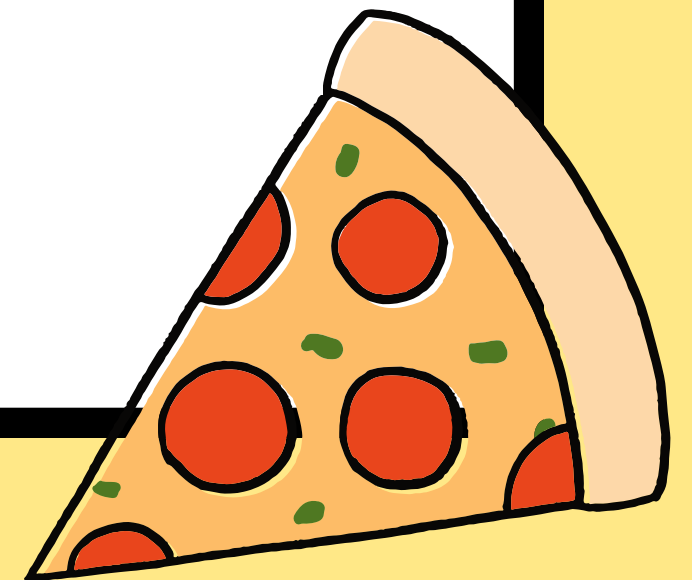


Question #4

Identify the most common pizza size ordered.

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

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

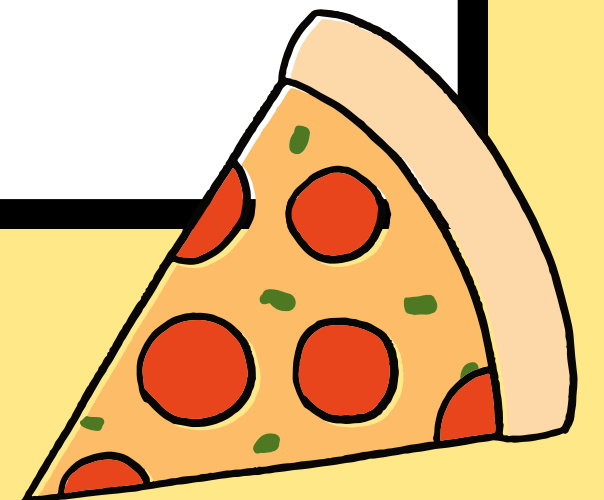


Question #5

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 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 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	

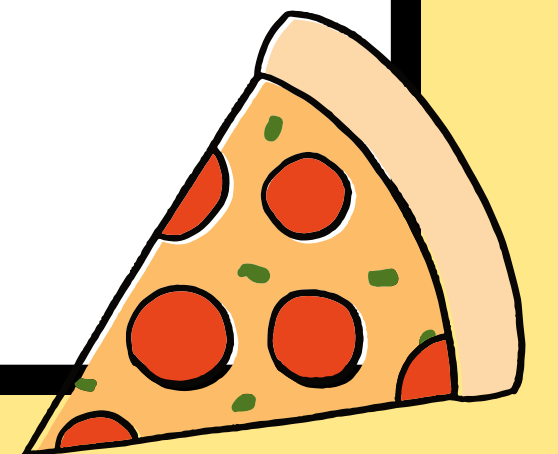


Question #6

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

```
SELECT  
    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;
```

Result Grid			Filter
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

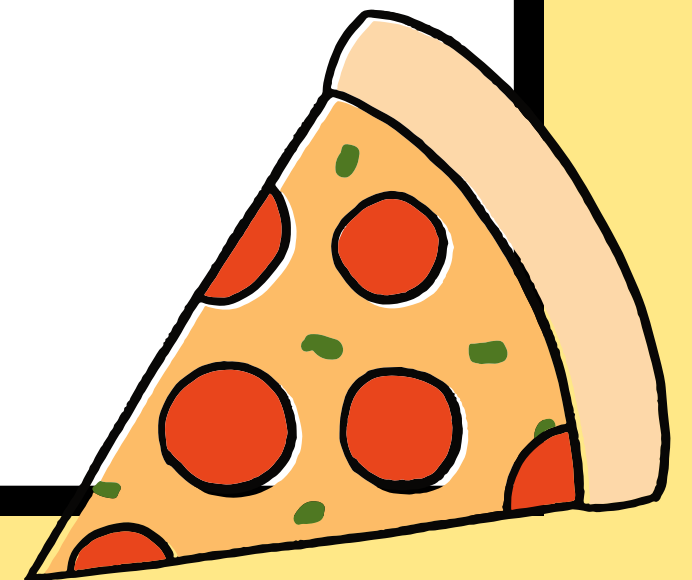


Question #7

Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(order_time), COUNT(order_id)
FROM
    orders
GROUP BY HOUR(order_time)
ORDER BY COUNT(order_id) DESC;
```

	hour(order_time)	count(order_id)
	12	2520
	13	2455
▶	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8

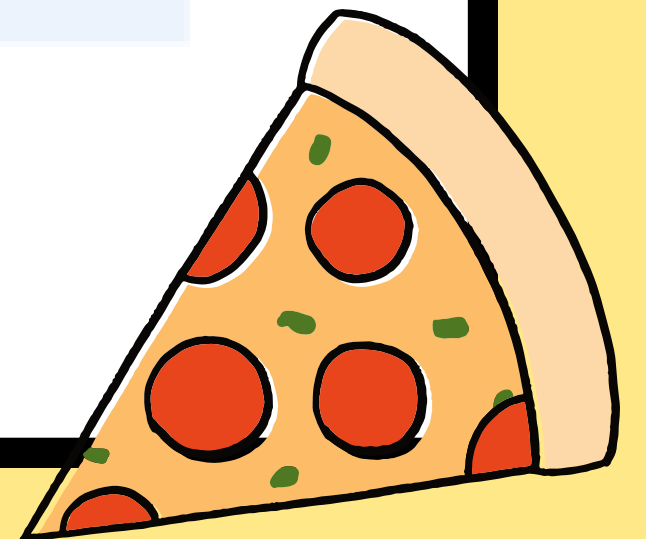


Question #8

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

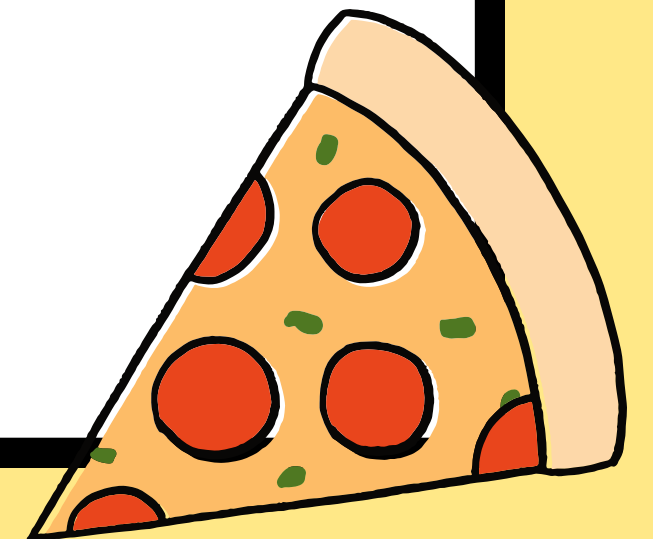


Question #9

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

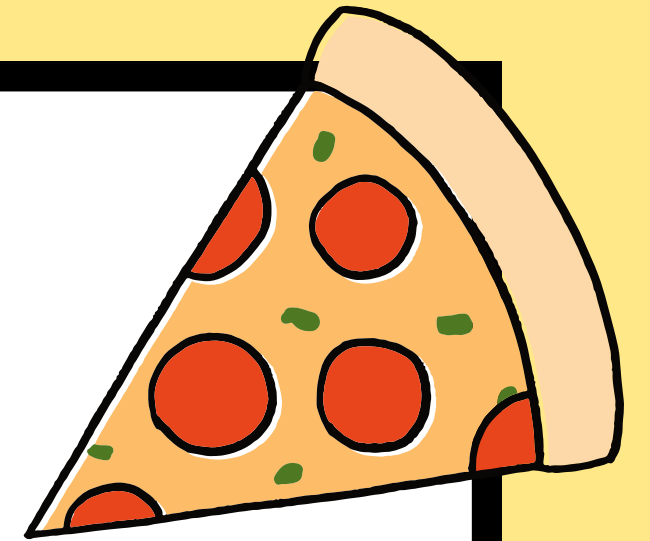
```
SELECT
    round(AVG(quantity),0)
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) as avg_quantity_per_day;
```

Result Grid		Filter Rows:
	round(AVG(quantity),0)	
▶	138	



Question #10

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



SELECT

```
pizza_types.name,  
round(sum(order_details.quantity * pizzas.price),0) as most_ordered_pizza
```

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
```

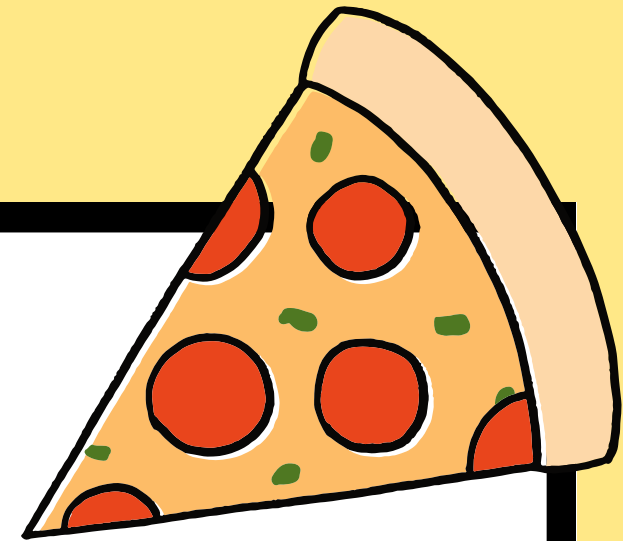
```
group by pizza_types.name
```

```
order by most_ordered_pizza desc limit 3;
```

Result Grid |   Filter Rows:

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

Question #11

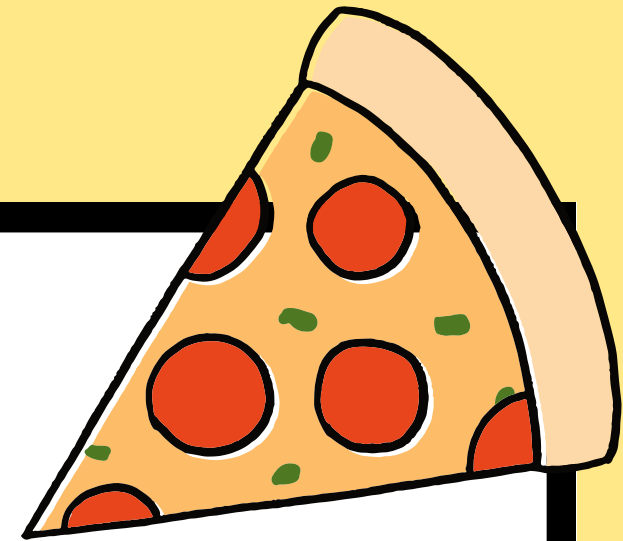


Calculate the percentage contribution of each pizza type to total revenue.

```
> 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 order_details.pizza_id = pizzas.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;
```

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

Question #12



Analyze the cumulative revenue generated over time.

```
select order_date , sum(revenue) over(order by order_date) as Cumulative_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	Cumulative_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	31881.300000000003

Question #13

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

```
select name, total_revenue, rn from
(select category, name, total_revenue, rank() over (partition by category order by total_revenue desc) as rn
from
(select pizza_types.category, pizza_types.name, sum(order_details.quantity * pizzas.price) as total_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 sales) as b
where rn <=3;
```

name	total_revenue	rn
The Thai Chicken Pizza	43434.25	1
The Barbecue Chicken Pizza	42768	2
The California Chicken Pizza	41409.5	3
The Classic Deluxe Pizza	38180.5	1
The Hawaiian Pizza	32273.25	2
The Pepperoni Pizza	30161.75	3
The Spicy Italian Pizza	34831.25	1
The Italian Supreme Pizza	33476.75	2
The Sicilian Pizza	30940.5	3
The Four Cheese Pizza	32265.700000000065	1
The Mexicana Pizza	26780.75	2
The Five Cheese Pizza	26066.5	3



Thank

You!

