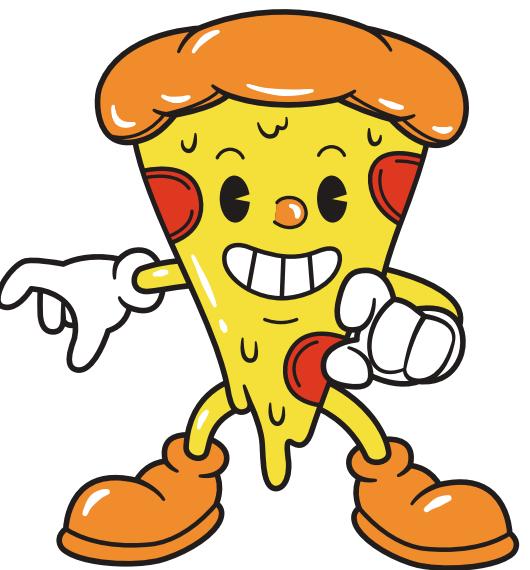


SQL PIZZA PROJECT



Introduction

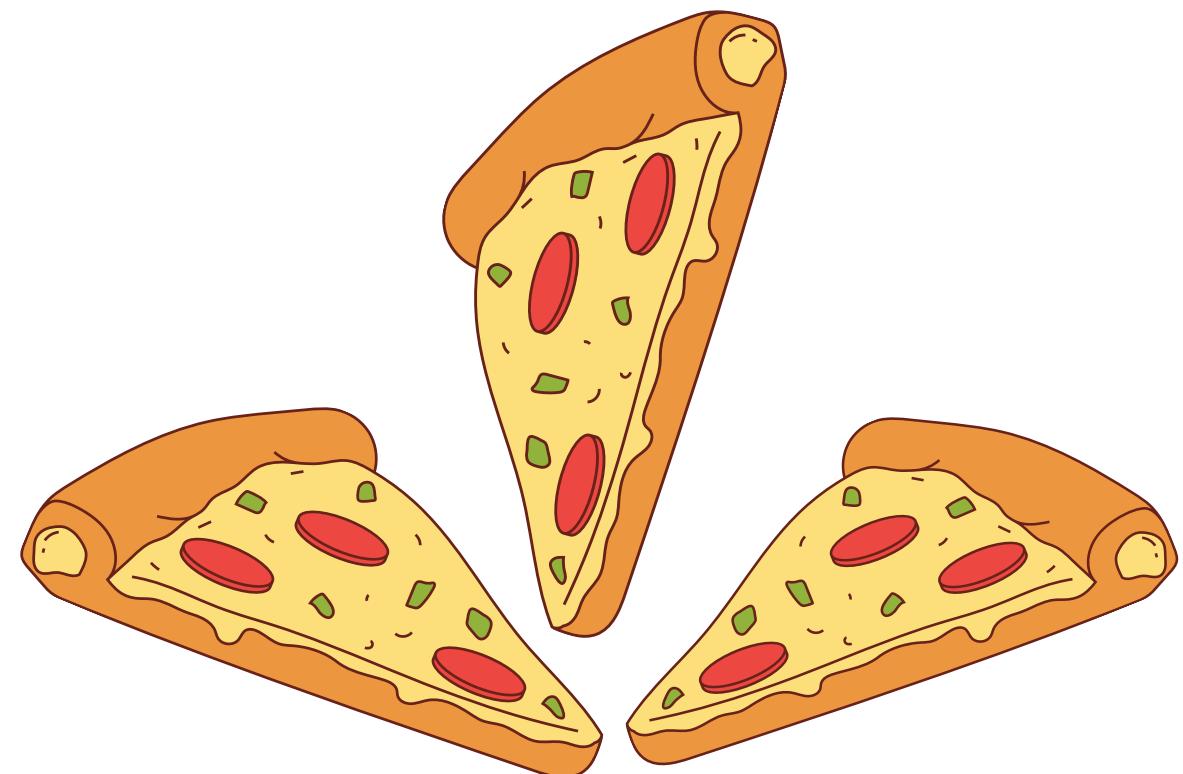
This project involves developing a comprehensive MySQL database for a pizza restaurant. The database will manage critical data related to customer orders, pizza details, and sales transactions. By leveraging this database, we aim to answer key business questions ranging from basic metrics like total orders and revenue to advanced analyses such as revenue contributions and order distributions. This project will provide valuable insights and help enhance database management skills.



Retrieve the total number of orders placed.

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

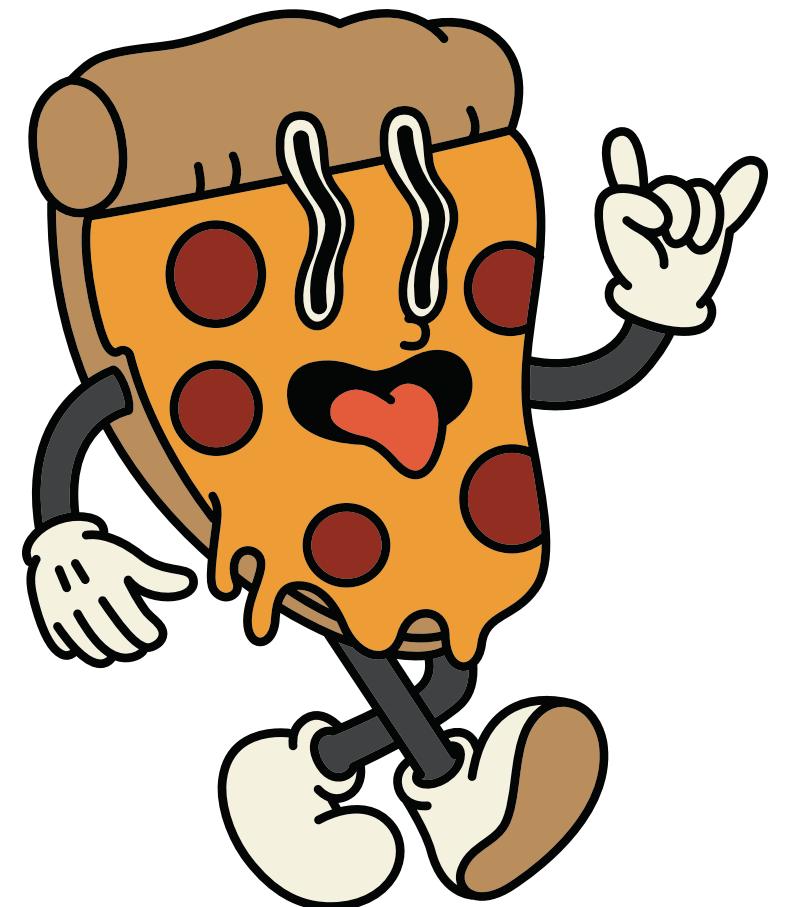
Result Grid	
	COUNT(order_id)
▶	21350



Calculate the total revenue generated from pizza sales.

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

Result Grid	grid icon	refresh icon
Total_Revenue		
817860.05		



Identify the highest-priced pizza.

```
SELECT PT.name AS Pizza_name,  
P.price AS Price  
FROM pizzas AS P  
JOIN pizza_types AS PT  
ON P.pizza_type_id = PT.pizza_type_id  
ORDER BY Price DESC  
LIMIT 1;
```

Result Grid | Filter Rows

Pizza_name	Price
The Greek Pizza	35.95



Identify the most common pizza size ordered.

```
SELECT P.size,  
       COUNT(O.order_details_id) AS Count_of_Order  
  FROM pizzas AS P  
 JOIN orders_details AS O  
    ON P.pizza_id = O.pizza_id  
 GROUP BY P.size  
 ORDER BY Count_of_Order DESC  
 LIMIT 1;
```

Result Grid | Filter Row

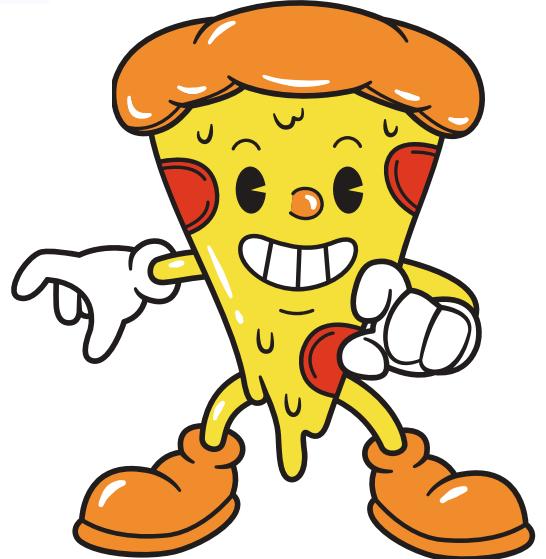
size	Count_of_Order
L	18526



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

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

Pizza_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

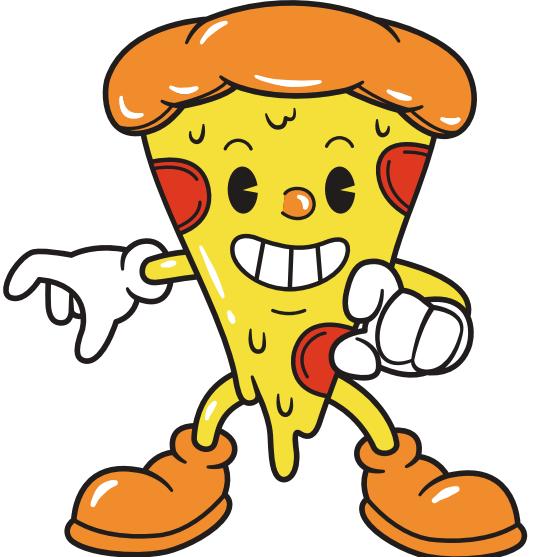


Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT PT.Category AS Pizza_Category,  
       SUM(O.Quantity) AS Quantity  
  FROM pizzas AS P  
 JOIN orders_details AS O  
 ON P.pizza_id = O.pizza_id  
 JOIN pizza_types AS PT  
 ON P.pizza_type_id = PT.pizza_type_id  
 GROUP BY Pizza_Category  
 ORDER BY Quantity DESC;
```

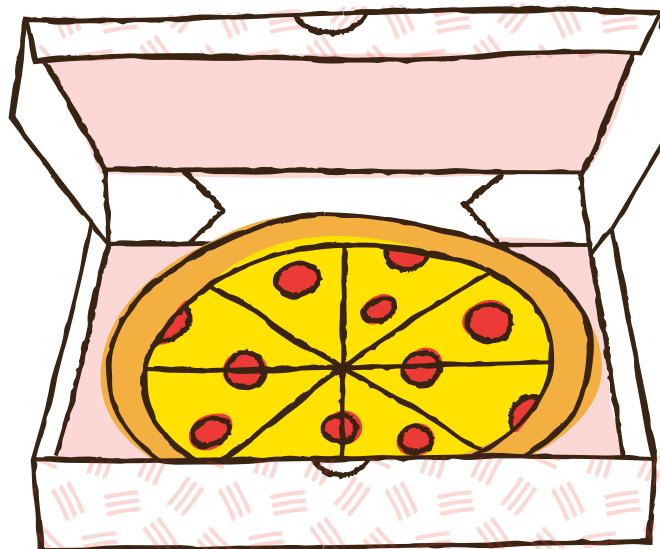
Result Grid | Filter Rows:

	Pizza_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 Count_of_Orders  
  FROM orders  
 GROUP BY Hour;
```

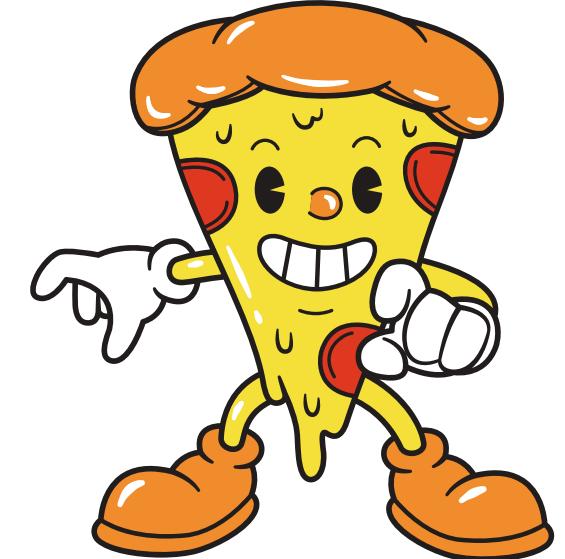


	Hour	Count_of_Orders
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1

Find the category-wise distribution of pizzas.

```
SELECT category,  
       COUNT(name) AS No_of_Pizza  
  FROM pizza_types  
 GROUP BY category;
```

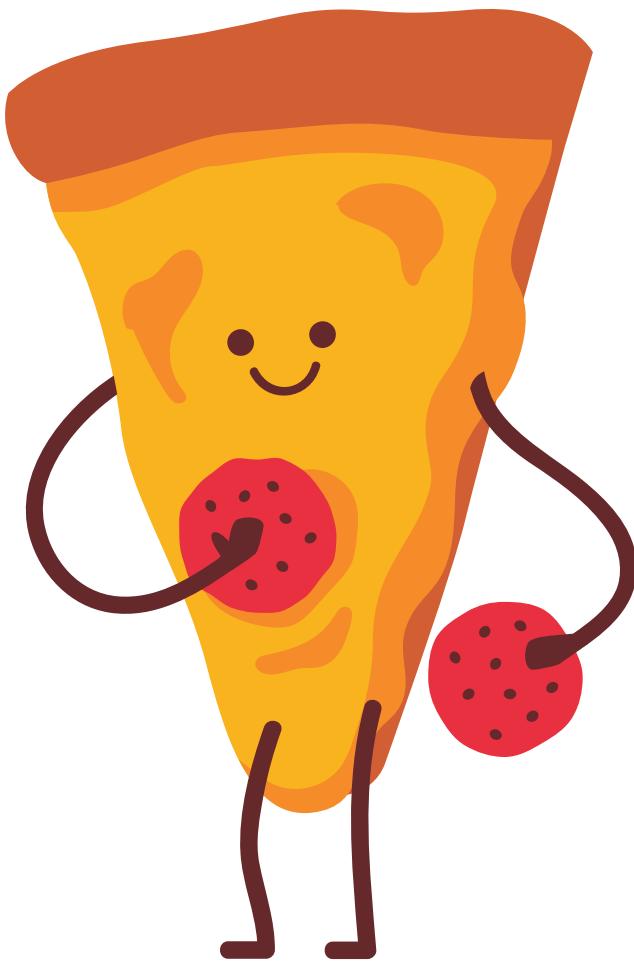
Result Grid		
	category	No_of_Pizza
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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

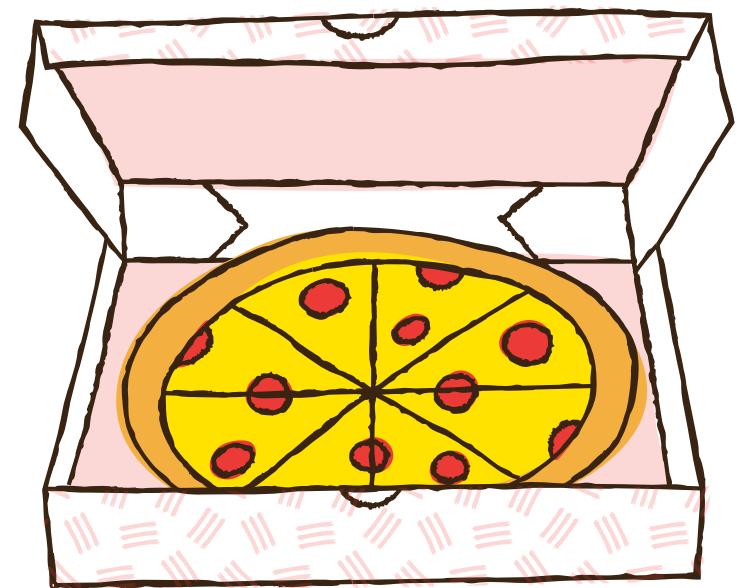
```
SELECT ROUND(AMG(Total_Quantity),0) AS Avg_Order_per_day  
FROM  
  (SELECT O.order_date,  
    SUM(OD.quantity) Total_Quantity  
  FROM orders AS O  
  JOIN orders_details AS OD  
  ON O.order_id=OD.order_id  
  GROUP BY O.order_date) AS Order_Deets;
```

Result Grid	
	Avg_Order_per_day
▶	138



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

```
SELECT  
    PT.name AS Pizza_Type, 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  
    orders_details AS O ON P.pizza_id = O.pizza_id  
GROUP BY Pizza_Type  
ORDER BY Revenue DESC  
LIMIT 3;
```



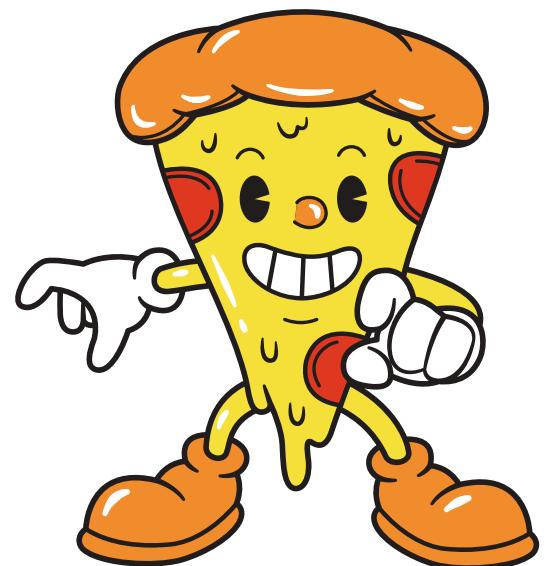
Result Grid | Filter Rows: _____

Pizza_Type	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  
    PT.category,  
    ROUND(SUM(O.quantity * P.price) / (SELECT  
        ROUND(SUM(O.quantity * P.price), 2) AS Total_Revenue  
    FROM  
        pizzas AS P  
        JOIN  
        orders_details AS O ON P.pizza_id = O.pizza_id) * 100,  
    2) AS Revenue_in_Percent  
  
FROM  
    pizza_types AS PT  
    JOIN  
    pizzas AS P ON PT.pizza_type_id = P.pizza_type_id  
    JOIN  
    orders_details AS O ON P.pizza_id = O.pizza_id  
GROUP BY PT.category  
ORDER BY Revenue_in_Percent DESC;
```

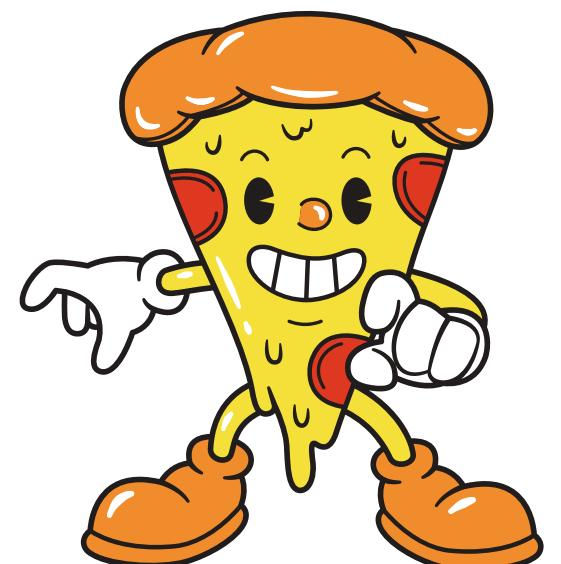
	category	Revenue_in_Percent
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



Analyze the cumulative revenue generated over time.

```
| SELECT date,  
|     ROUND(SUM(Total_Revenue)OVER(ORDER BY date),2) AS Cum_Revenue  
|  
| FROM  
| (SELECT O.order_date AS Date,  
|     SUM(OD.quantity*P.price) AS Total_Revenue  
|     FROM orders AS O  
|     JOIN orders_details AS OD  
|     ON O.order_id = OD.order_id  
|     JOIN pizzas AS P  
|     ON OD.pizza_id = P.pizza_id  
|     GROUP BY date) AS Sales;
```

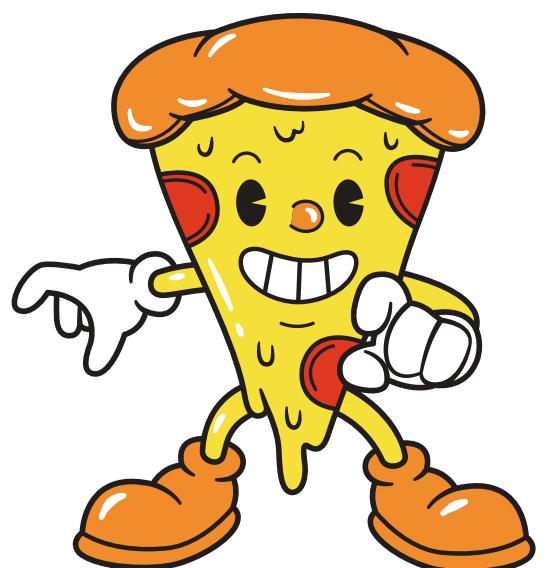
	date	Cum_Revenue
▶	2015-01-01	2713.85
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.35



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 PT.category,
           PT.name,
           SUM(OD.quantity*P.price) Revenue
      FROM pizza_types AS PT
     JOIN pizzas AS P
       ON PT.pizza_type_id = P.pizza_type_id
    join orders_details AS OD
      On P.pizza_id = OD.pizza_id
     GROUP by PT.category, PT.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	32265.70000000065
	Veggie	The Mexicana Pizza	26780.75
	Veggie	The Five Cheese Pizza	26066.5



**Thank you for viewing my presentation.
If you found it useful, please like, share, and
connect with me on LinkedIn!**

