

**HELLO!**

- **MY NAME IS ANUGRAH SINGH.**
- **IN THIS PROJECT I HAVE UTILISED SQL QUERIES TO SOLVE QUESTIONS THAT WERE RELATED TO PIZZA SALES.**



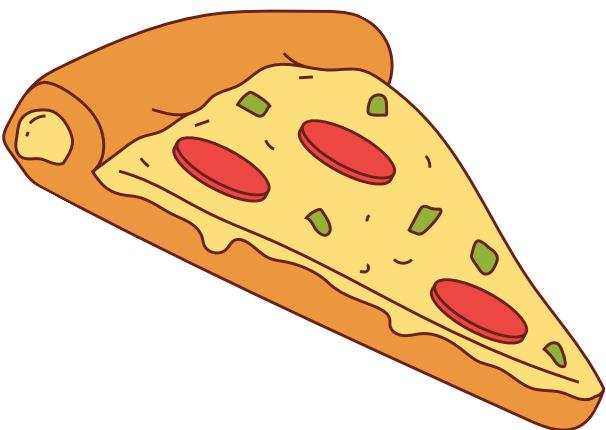
# 1.) Retrieve the total number of orders placed.

`SELECT`

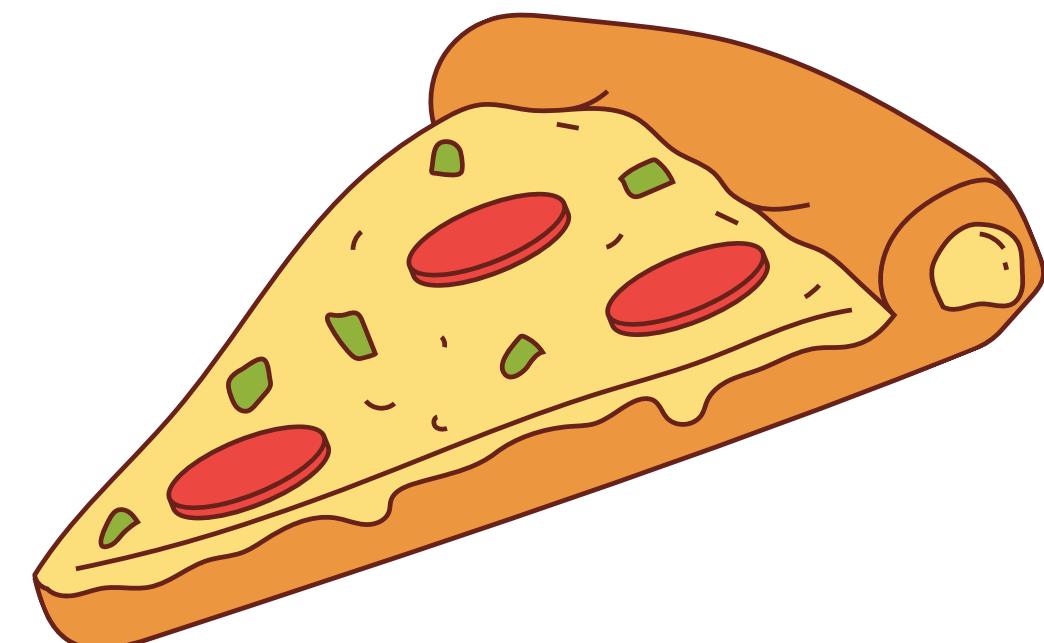
`COUNT(order_id) AS total_orders`

`FROM`

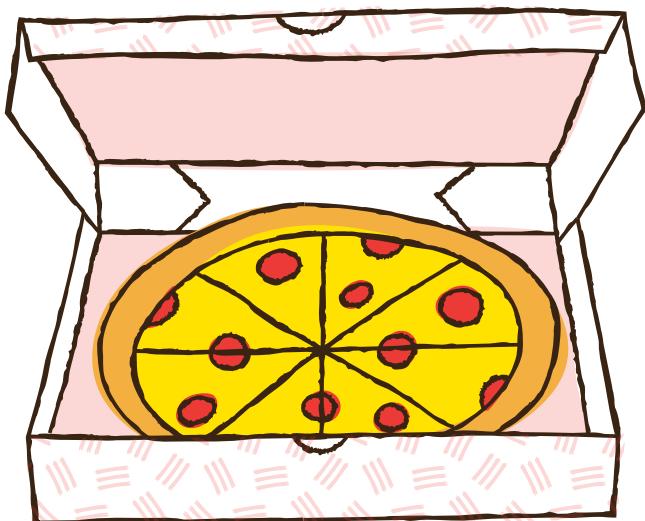
`orders;`



Result Grid	
	total_orders
▶	21350

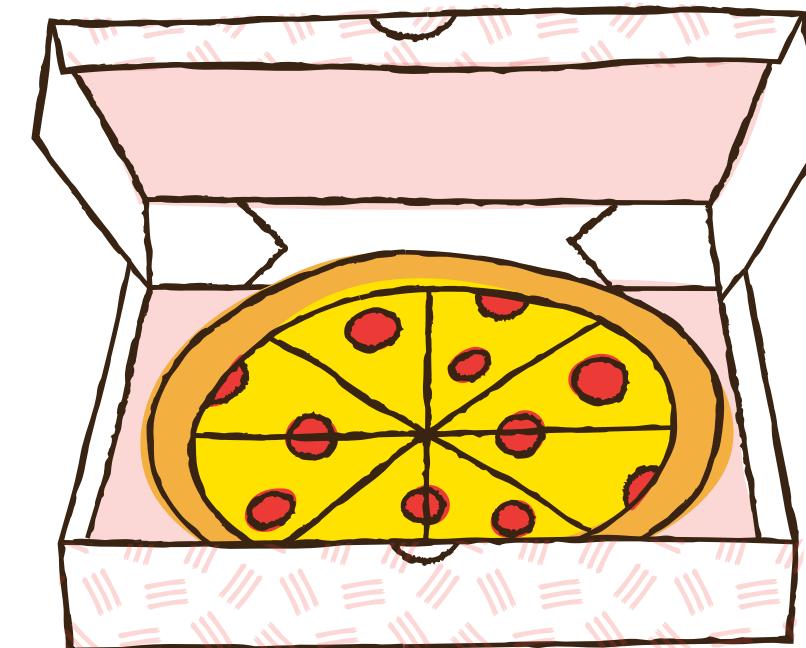


## 2.) Calculate the total revenue generated from pizza sales.

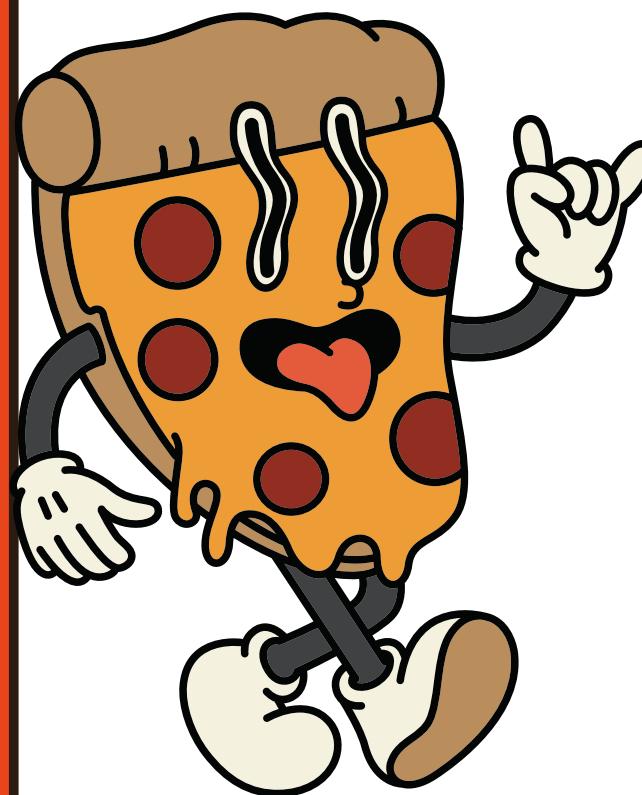


```
SELECT  
    ROUND(SUM(order_details.quantity * pizzas.price),  
        2) AS total_sales  
  
FROM  
    order_details  
    JOIN  
    pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Result Grid	
	total_sales
▶	817860.05



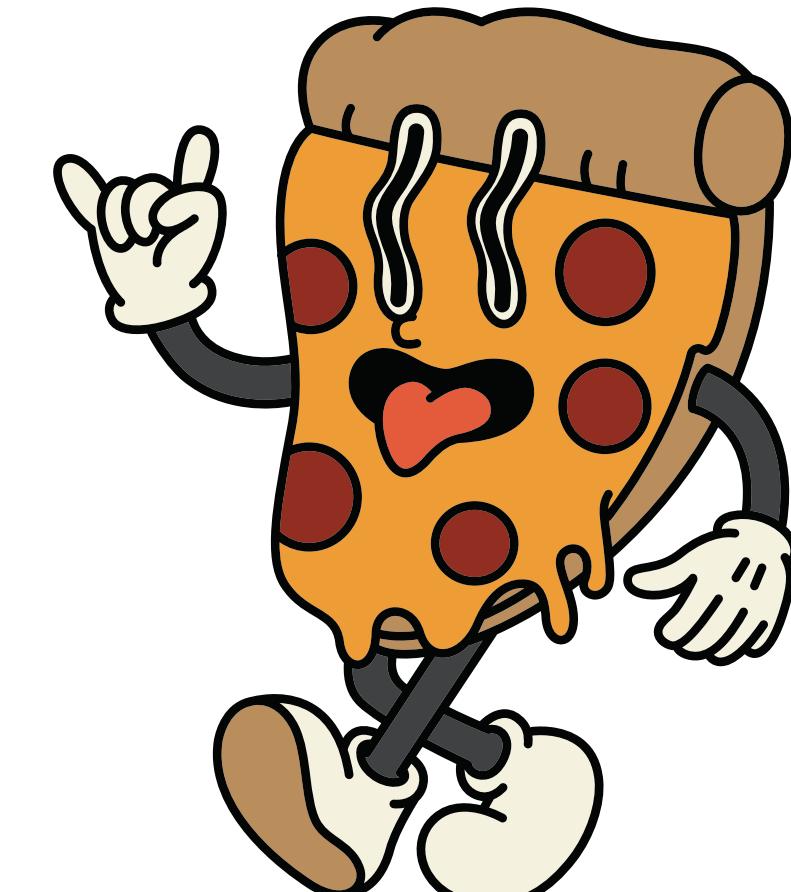
### 3.) Identify the highest-priced pizza.



```
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;
```

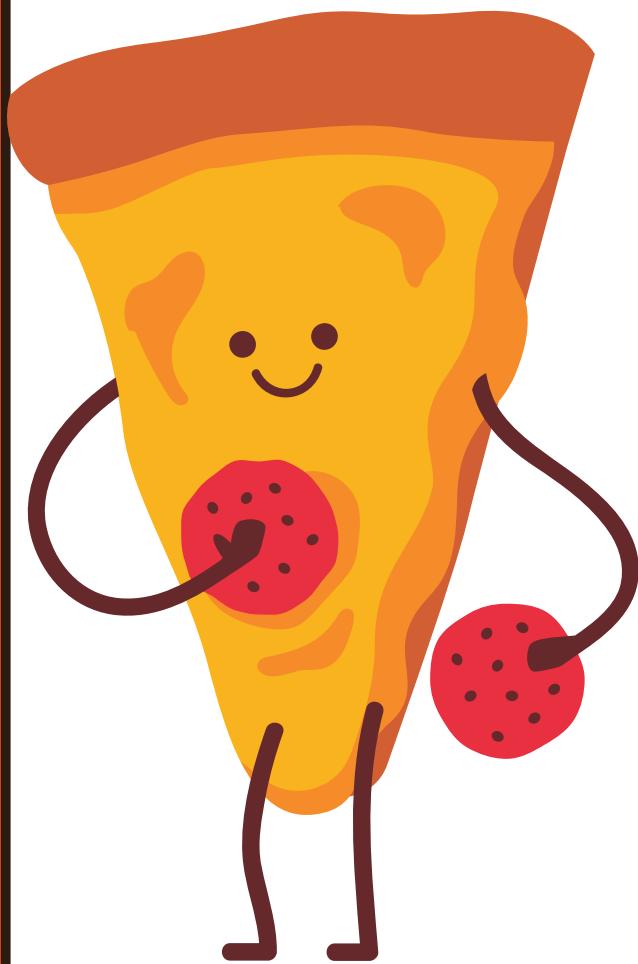
Result Grid | Filter

name	price
The Greek Pizza	35.95



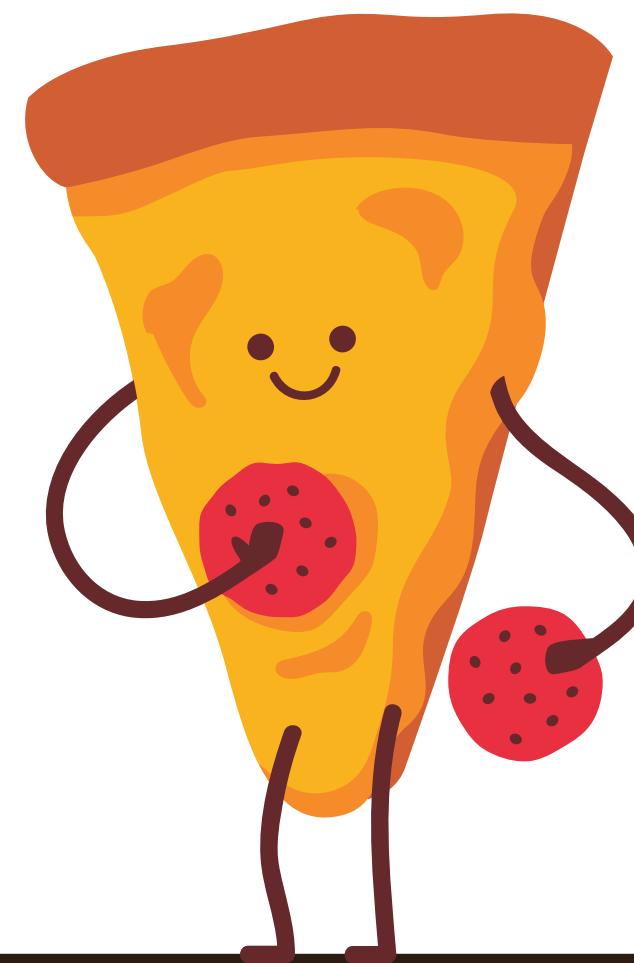
# 4.) Identify the most common pizza size ordered

```
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  
LIMIT 1;
```



Result Grid

size	order_count
L	18526



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



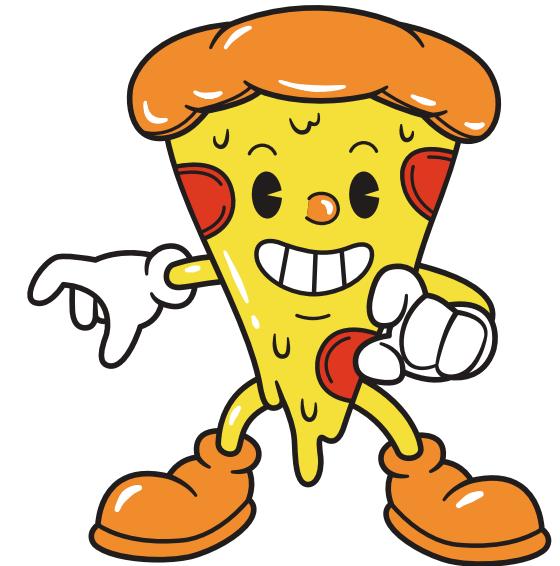
```
SELECT  
    pizza_types.name, SUM(order_details.quantity) AS quantity  
FROM  
    pizza_types  
    JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
    JOIN  
    order_details ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.name  
ORDER BY quantity DESC  
LIMIT 5;
```

	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



# 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		
	category	quantity
▶	Classic	1488
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

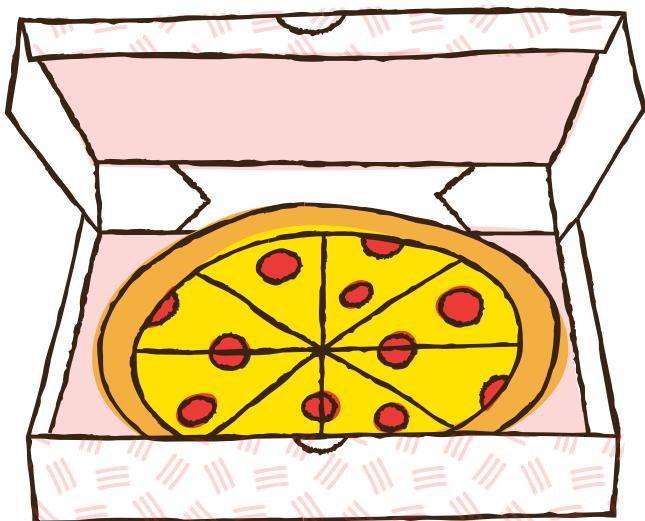


```
SELECT  
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(order_time) LIMIT 7;
```

	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336



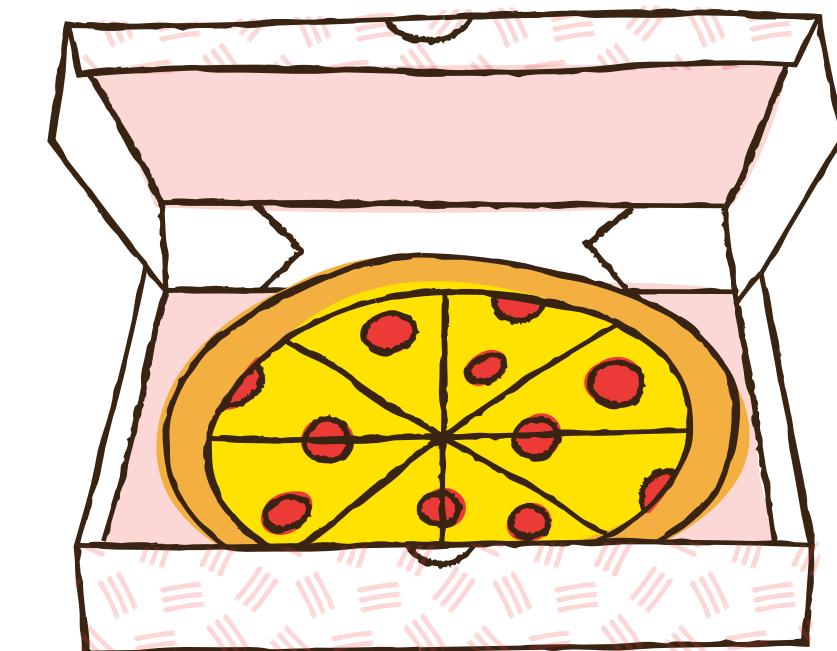
# 8.)Join relevant tables to find the category-wise distribution of pizzas.



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

Result Grid | Filter Row

	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



# 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 order_quantity;
```

ROUND(AVG(quantity), 0)
138



# 10.) 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;
```

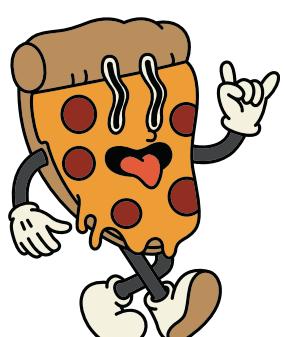
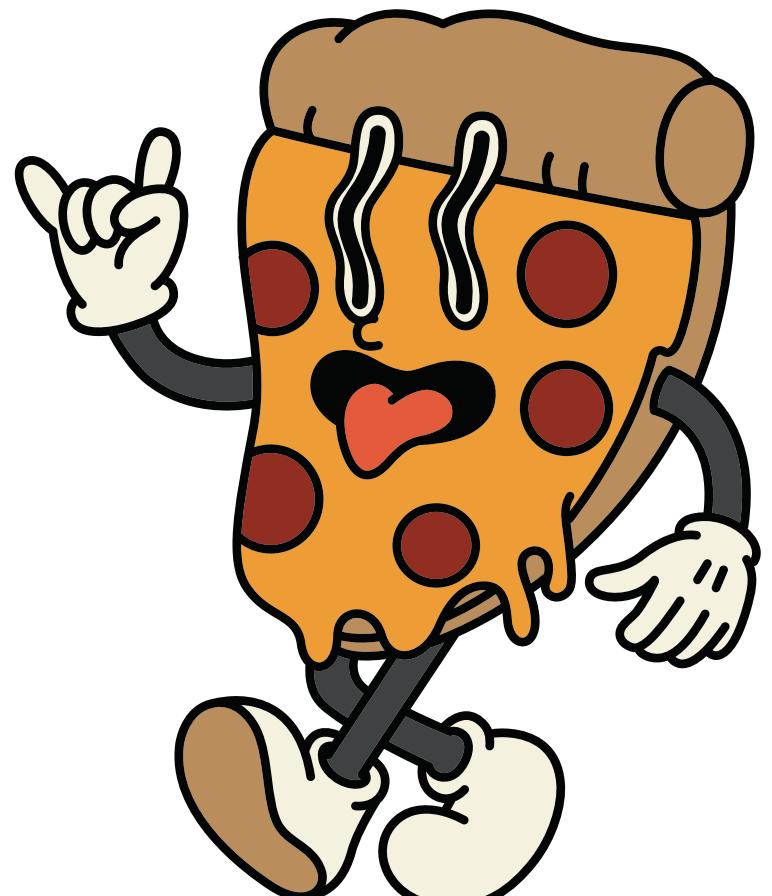


Result Grid		Filter Rows:
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

# 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_sales  
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;
```

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



# 12.) Analyze the cumulative revenue generated over time.

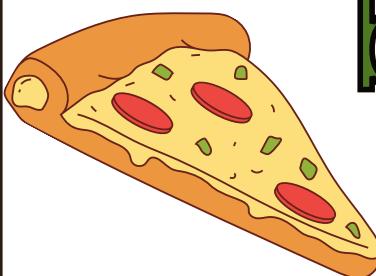


```
SELECT order_date,  
       sum(revenue) OVER (ORDER BY order_date) AS cum_revenue  
  FROM  
(SELECT orders.order_date,  
           sum(order_details.quantity * pizzas.price) AS revenue  
      FROM order_details JOIN pizzas  
        ON order_details.pizza_id = pizzas.pizza_id  
     JOIN orders  
        ON orders.order_id = order_details.order_id  
   GROUP BY orders.order_date) AS sales LIMIT 7;
```

Result Grid		
	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

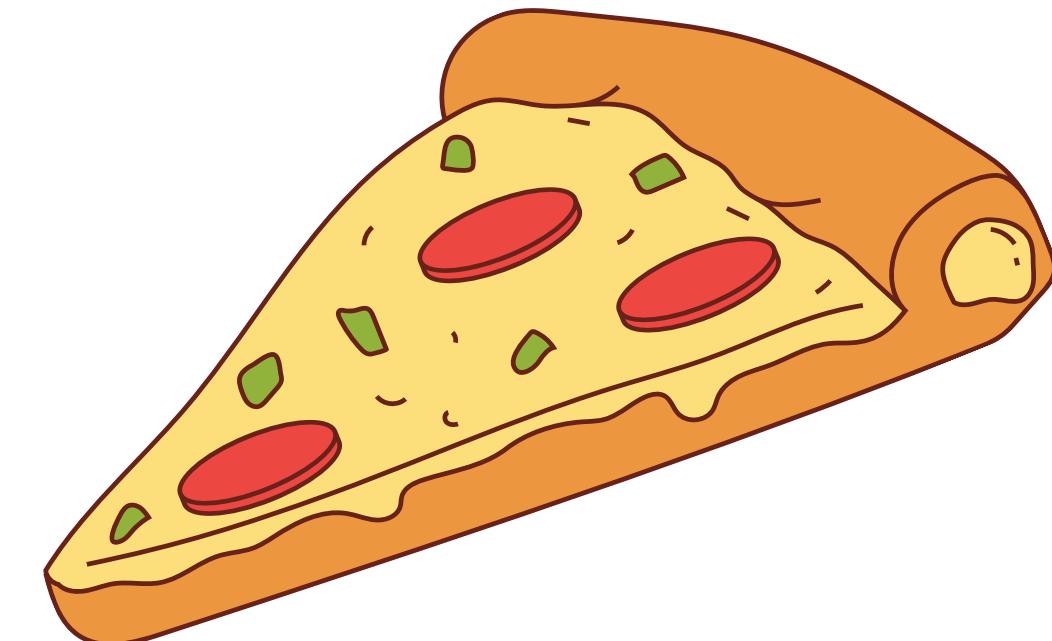


# 13.) Determine the top 3 most ordered pizza types based on revenue for each pizza category.



```
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:
	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



# THANKYOU!

