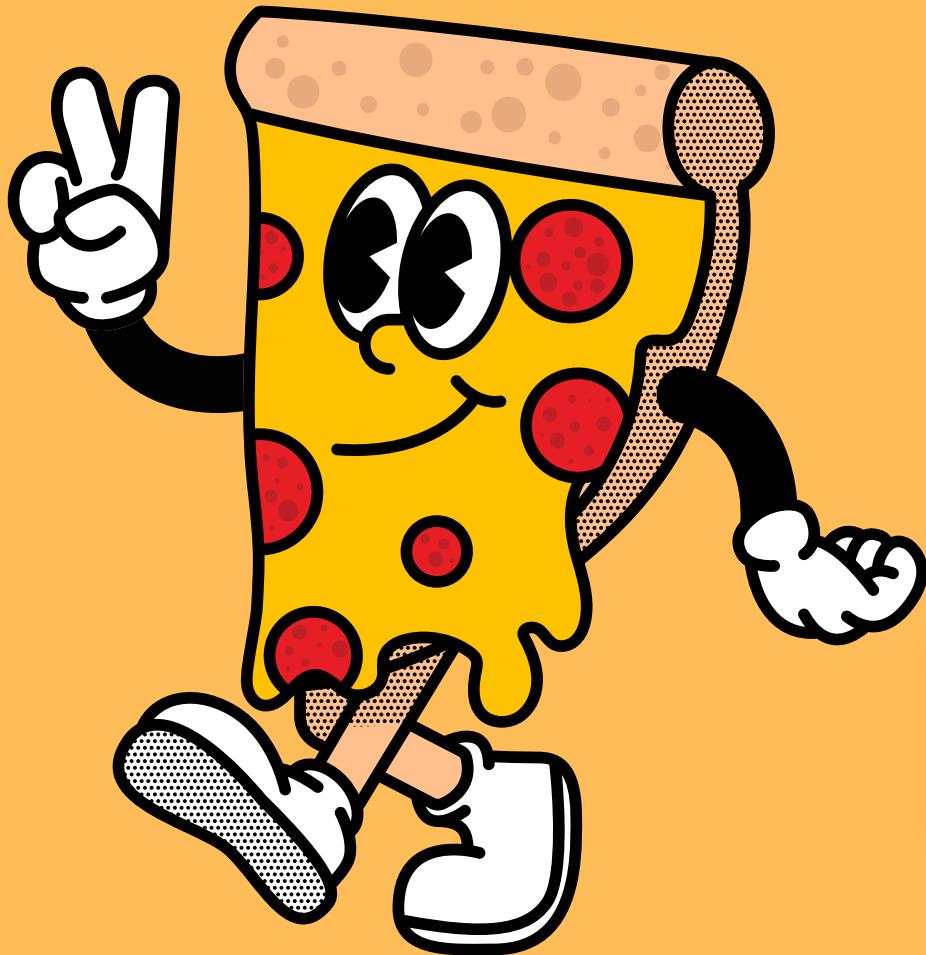


Project on Pizza Sales



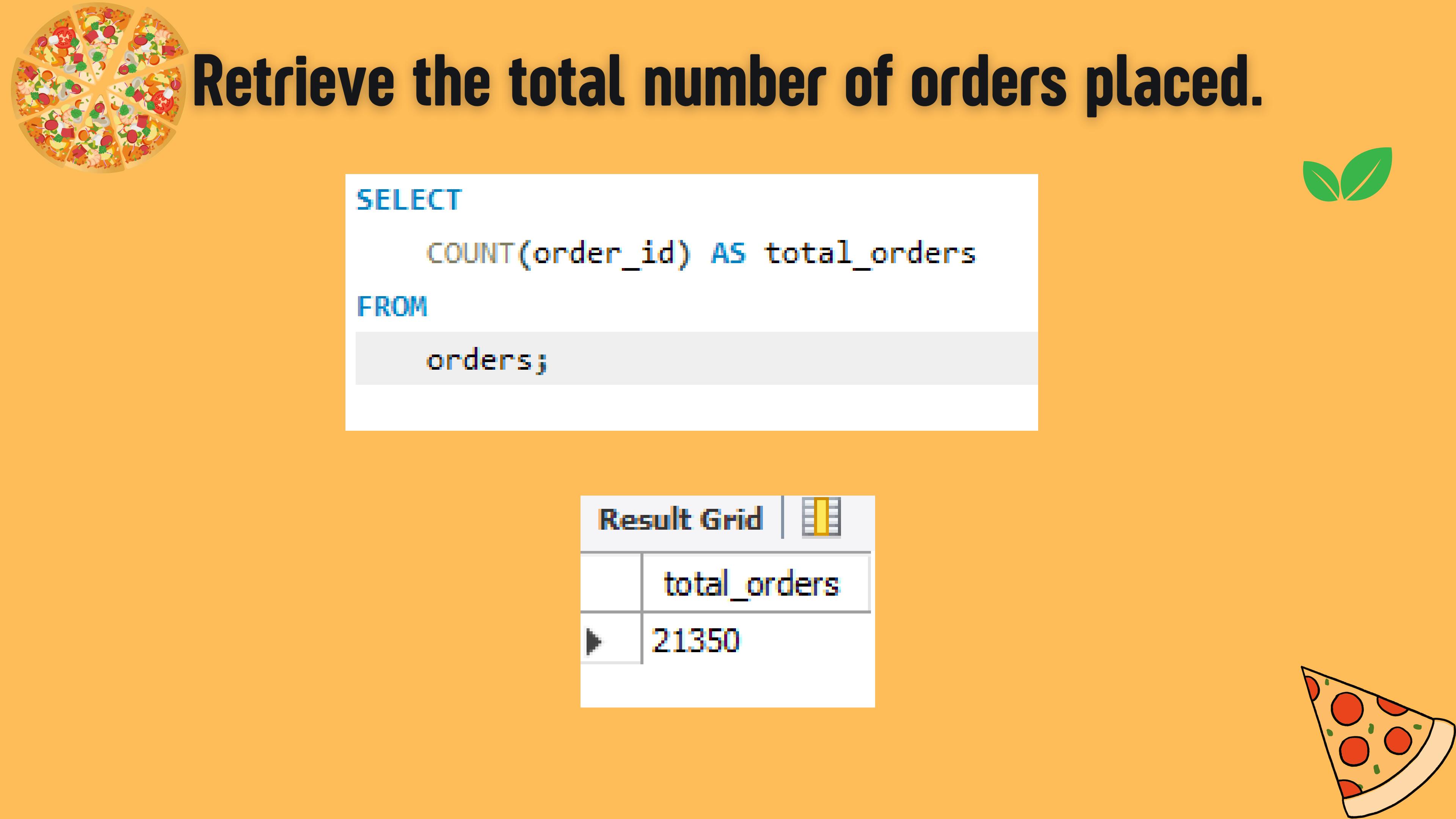
By Surabhi Srivastava

“Hello! My name is Surabhi Srivastava. In this project I have utilised SQL QUERIES to solve questions that were related to pizza sales.”



Basic Questions to solve

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.



Retrieve the total number of orders placed.

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

Result Grid	
	total_orders
▶	21350

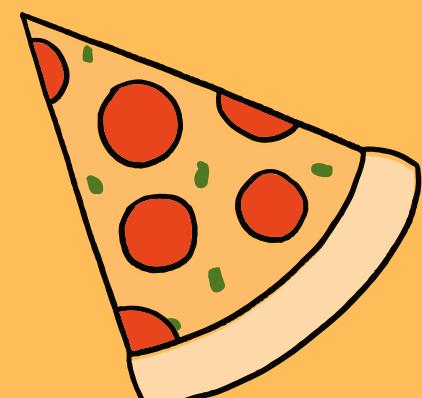


Calculate the Total Revenue generated from pizza sales.



```
SELECT  
    SUM(pizzas.price * order_details.quantity) AS total_revenue  
FROM  
    pizzas  
    JOIN  
    order_details ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid	
	total_revenue
▶	817860.0499999993





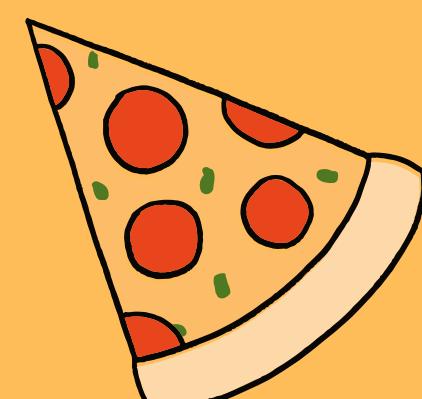
Identify the highest-priced pizza.



```
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

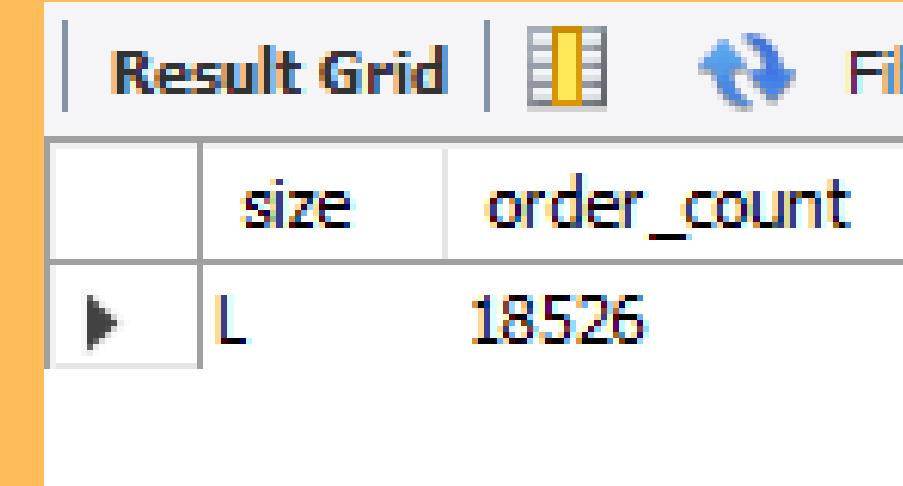




Identify the most common pizza size ordered.



```
SELECT pizzas.size, count(order_details.quantity) 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;
```



	size	order_count
▶	L	18526



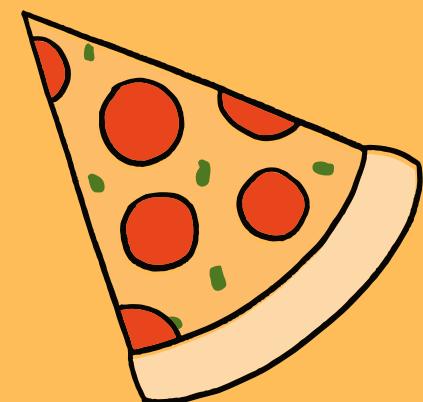


List top 5 most ordered pizza types along with their quantities.



```
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 pizzas.pizza_id=order_details.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



Intermediate Questions to solve...

- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- 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.

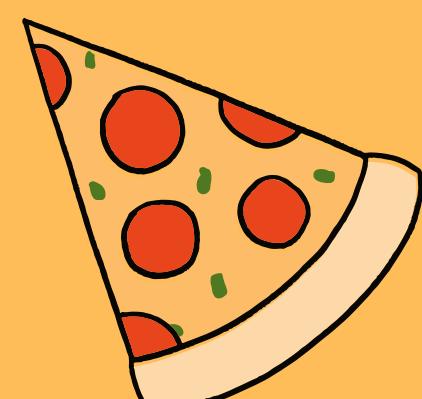


Join the necessary tables to find the total quantity of each pizza category.



```
select
    pizza_types.category,sum(order_details.quantity)as total_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 total_quantity desc;
```

	category	total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

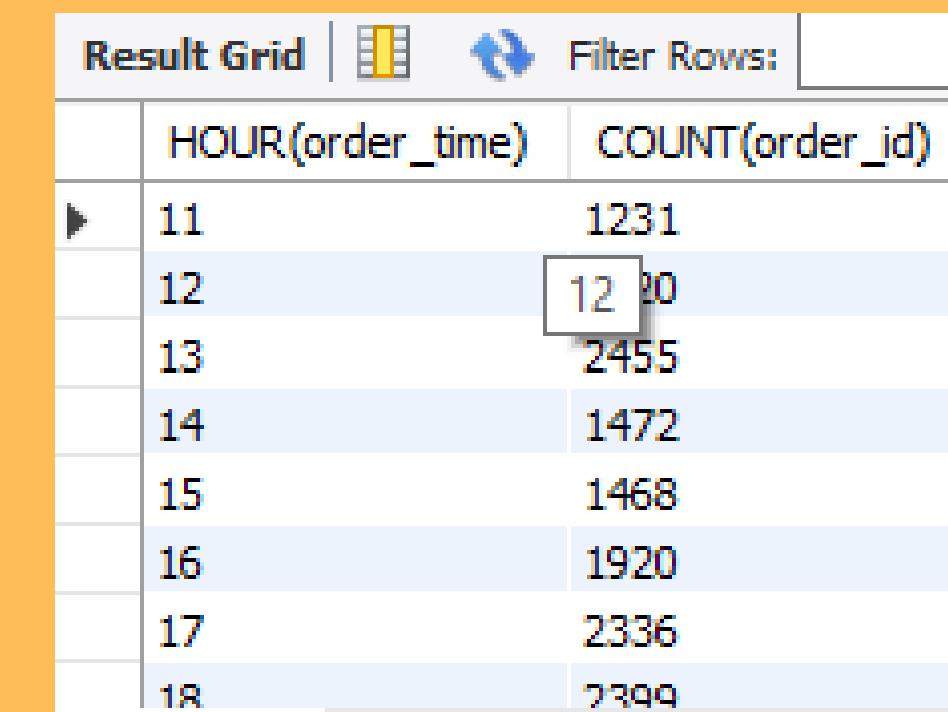




Determine the distribution of orders by hour of the day.



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



	HOUR(order_time)	COUNT(order_id)
▶	11	1231
	12	1280
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399





Join relevant tables to find the category using distribution of pizzas.



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

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



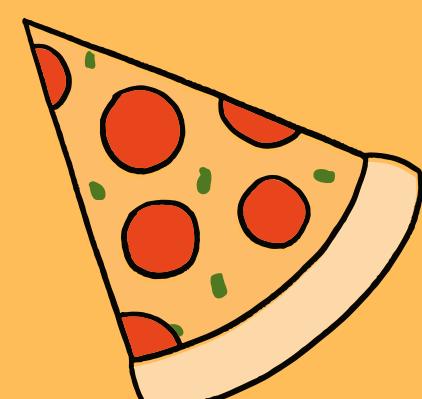


Group the orders by date and calculate no. of pizzas ordered per day.



```
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;
```

	Result Grid	Filter
	round(avg(quantity),0)	
▶	138	



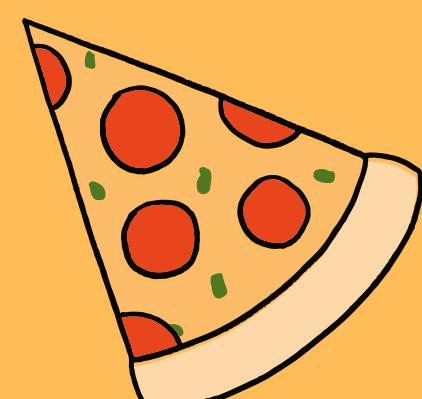


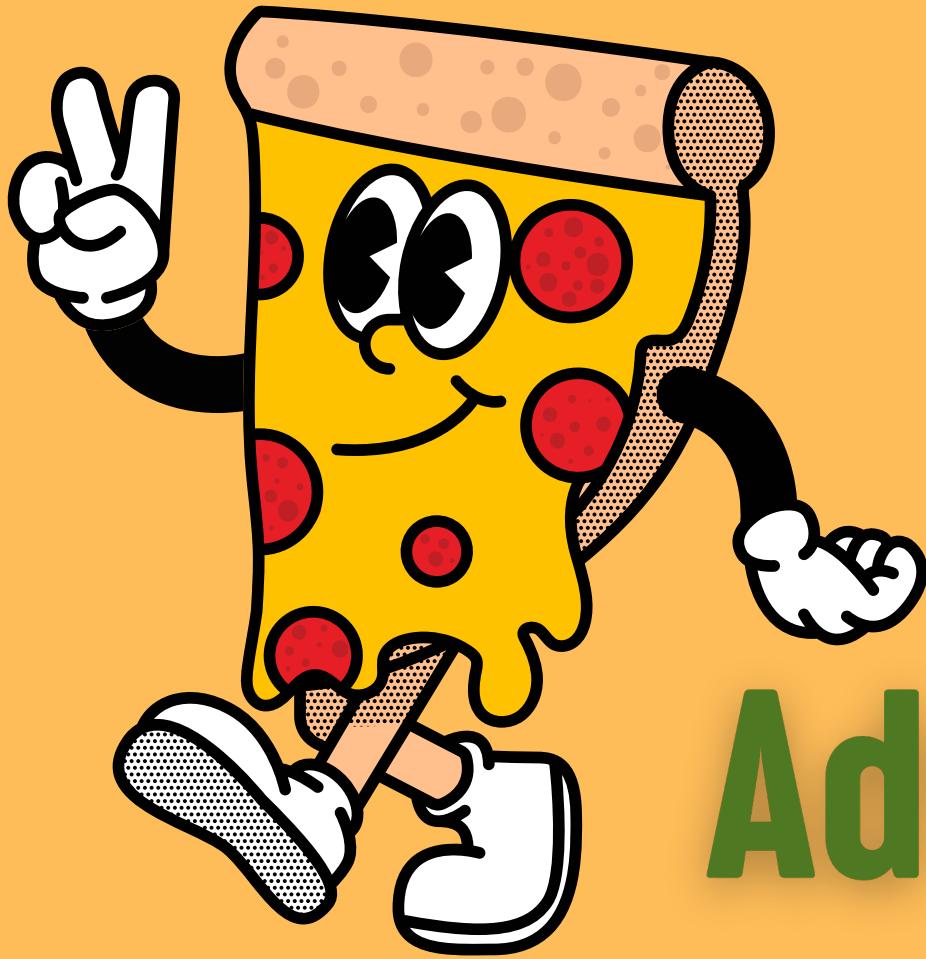
Determine the top 3 most ordered pizzas type based on revenue.



```
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





Advanced Questions to solve..

- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.



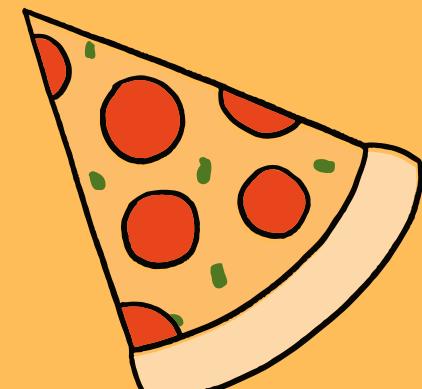
Calculate the percentage contribution of each pizza type to total revenue.



```
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
        order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Result Grid | Filter

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



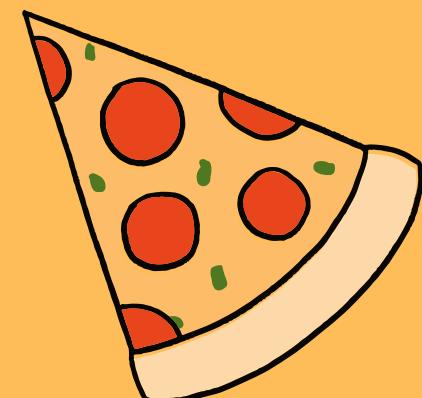


Analyze the cumulative revenue generated over time.



```
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 orders.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

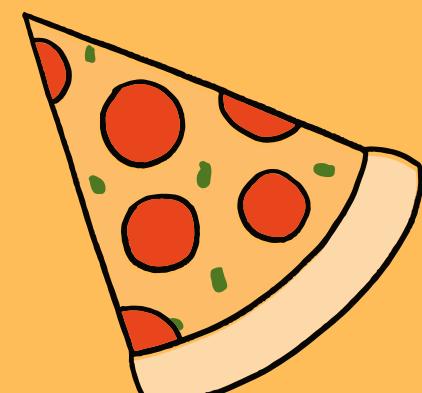




Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
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





Thank You

