



SPECIAL PIZZA

RESTAURANT

Specialist in Italian Food



Retrieve total number of orders placed

```
SELECT  
    COUNT(DISTINCT order_id)  
FROM  
    order_details
```

	count(distinct order_id)
▶	21350



Calculate the total revenue generated from pizza sales

```
select round(sum(od.quantity*p.price),2) from order_details as od  
join pizzas as p  
using (pizza_id)
```

round(sum(od.quantity*p.price),2)

817860.05



Identify the highest price pizza

```
select pt.name,p.price from pizzas p
join pizza_types pt
on p.pizza_type_id = pt.pizza_type_id
order by price desc
limit 1
```



	name	price
▶	The Greek Pizza	35.95



Identify the most common pizza size ordered

```
select p.size, count(od.order_id) from pizzas p  
join order_details od  
on p.pizza_id = od.pizza_id  
group by p.size
```

	size	count(od.order_id)
▶	M	15385
	L	18526
	S	14137
	XL	544
	XXL	28



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

```
select pt.name, sum(od.quantity) from pizza_types pt
join pizzas p
on pt.pizza_type_id = p.pizza_type_id
join order_details od
on p.pizza_id = od.pizza_id
group by pt.name
order by sum(od.quantity) desc
limit 5;
```



	name	count(od.quantity)
▶	The Classic Deluxe Pizza	2416
	The Barbecue Chicken Pizza	2372
	The Hawaiian Pizza	2370
	The Pepperoni Pizza	2369
	The Thai Chicken Pizza	2315



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

```
select pt.category, sum(od.quantity) from pizza_types pt
join pizzas p
on pt.pizza_type_id = p.pizza_type_id
join order_details od
on p.pizza_id = od.pizza_id
group by pt.category
order by sum(od.quantity) desc;
```



	category	sum(od.quantity)
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



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) from  
(select o.date, sum(od.quantity) as quantity from orders o  
join order_details od  
on o.order_id = od.order_id  
group by o.date) as order_quantity;
```



	round(avg(quantity),0)
▶	138



Determine the top 3 most ordered pizza types based on revenue

```
select pt.name, sum(od.quantity*p.price) as revenue  
from pizza_types pt  
join pizzas p  
on p.pizza_type_id = pt.pizza_type_id  
join order_details od  
on od.pizza_id = p.pizza_id  
group by pt.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



Analyze the cumulative revenue generated over time

```
select date, sum(revenue) over (order by date) as cum_revenue
from
(select o.date, sum(od.quantity*p.price) as revenue
from order_details od
join pizzas p
on od.pizza_id = p.pizza_id
join orders o
on o.order_id = od.order_id
group by o.date) as sales;
```

	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
	2015-01-12	27781.7



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 pt.category, pt.name, sum(od.quantity*p.price) as revenue
from pizza_types pt
join pizzas p
on pt.pizza_type_id = p.pizza_type_id
join order_details od
on p.pizza_id = od.pizza_id
group by pt.category, pt.name) as a) as b
where rn <= 3;
```

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





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THANK YOU

