

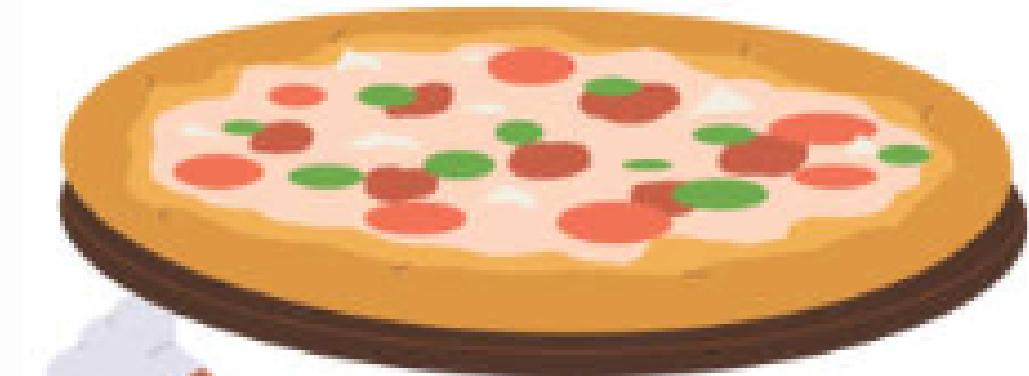


# SQL Pizza Sales Project

Presented by Deepa Kumari

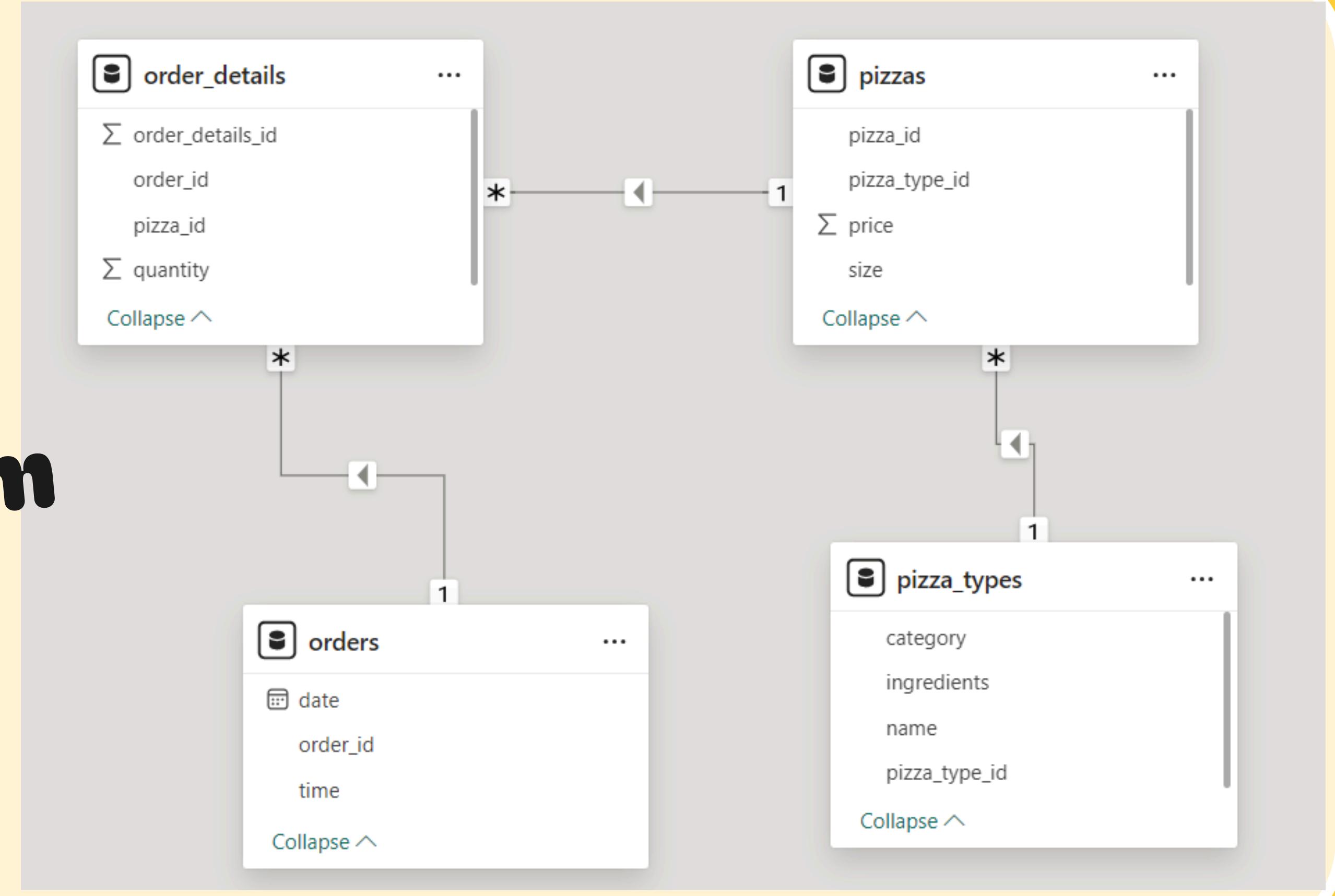
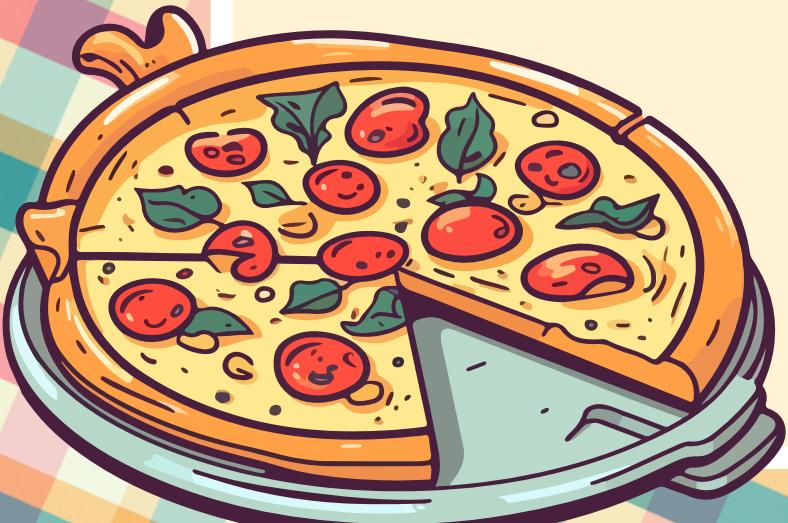


# Hello!



My name is Deepa Kumari and in this project,  
I have used SQL queries to solve some EDA  
questions related to pizza sales

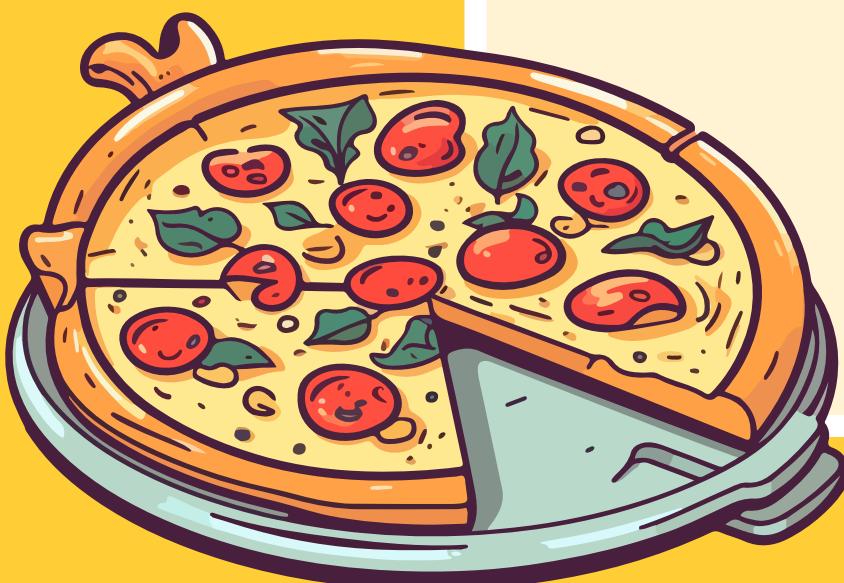
# ER Diagram



# Retrieve the total number of order placed

```
select count(order_id) as total_num_orders  
from orders;
```

	total_num_orders
▶	21350



# calculate total revenue generated by pizza sales

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

Result Grid |

	total_revenue
817860.05	



# Identify the highest priced pizza

```
select pt.name as Name, max(p.price) as highest_price  
from pizzas as p  
join pizza_types as pt  
on p.pizza_type_id = pt.pizza_type_id  
group by 1  
order by 2 desc  
limit 1;
```

Result Grid | Filter Rows:

	Name	highest_price
▶	The Greek Pizza	35.95

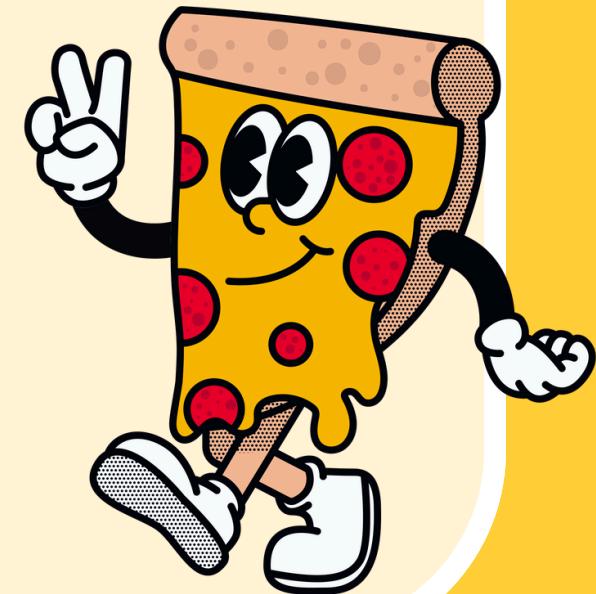


# Identify the most common pizza size ordered

```
select p.size as most_common_pizza_size, count(od.order_id) as Total_order  
from pizzas as p  
join order_details as od  
on p.pizza_id = od.pizza_id  
group by 1  
order by 2 desc;
```

Result Grid | Filter Rows:

	most_common_pizza_size	Total_order
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



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

```
select pt.name, sum(od.quantity) as Quantity  
from pizza_types as pt  
join pizzas as p  
on pt.pizza_type_id = p.pizza_type_id  
join order_details as od  
on od.pizza_id = p.pizza_id  
group by 1  
order by 2 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



## find the total quantity of each pizza category ordered

```
select pt.category, sum(od.quantity) as total_quantity  
from order_details as od  
join pizzas as p  
on od.pizza_id = p.pizza_id  
join pizza_types as pt  
on pt.pizza_type_id = p.pizza_type_id  
group by 1  
order by 2 desc;
```



Result Grid | Filter Rows:

	category	total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

# Distribution of orders by hour of the day

```
select hour(order_time) as Hour, count(order_id) as orders  
from orders  
group by 1  
order by 1;
```



Hour	orders
9	1
10	8
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

## Find category wise distribution of pizzas

```
select category as Category, count(pizza_type_id) as count_pizzas  
from pizza_types  
group by category
```

Result Grid | Filter Rows

	Category	count_pizzas
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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

```
with order_quantity as (
    select o.order_date, sum(od.quantity) as total_quantity
    from orders as o
    join order_details as od
    on o.order_id = od.order_id
    group by 1
)
select round(avg(total_quantity), 0) as avg_num_pizza_per_day
from order_quantity;
```



Result Grid | Filter Rows:

	avg_num_pizza_per_day
▶	138

## Determine the top 3 most ordered pizza type based on revenue

```
select pt.name, count(od.order_id) as total_orders, round(sum(p.price*od.quantity), 2) as total_revenue  
from pizza_types as pt  
join pizzas as p  
on pt.pizza_type_id = p.pizza_type_id  
join order_details as od  
on p.pizza_id = od.pizza_id  
group by 1  
order by 3 desc  
limit 3;
```

Result Grid | Filter Rows:  Export:

	name	total_orders	total_revenue
▶	The Thai Chicken Pizza	2315	43434.25
	The Barbecue Chicken Pizza	2372	42768
	The California Chicken Pizza	2302	41409.5



# calculate the percentage contribution of each pizza type to total revenue

```
select pt.category,  
round(sum(p.price*od.quantity)/(select round(sum(od.quantity * p.price), 2) as total_revenue  
from order_details as od  
join pizzas as p on od.pizza_id = p.pizza_id)*100, 2) as percentage_contri_each_pizza  
from pizza_types as pt  
join pizzas as p  
on pt.pizza_type_id = p.pizza_type_id  
join order_details as od  
on p.pizza_id = od.pizza_id  
group by 1;
```

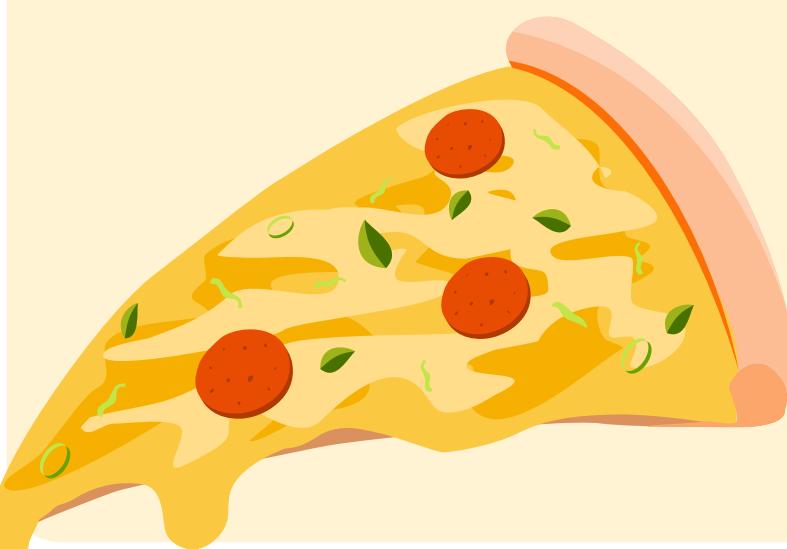


Result Grid | Filter Rows:

	category	percentage_contri_each_pizza
▶	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

# Analyze the cumulative revenue generated over time

```
with sales as (
  select o.order_date, round(sum(p.price*od.quantity), 2) as revenue
  from order_details as od
  join pizzas as p
  on od.pizza_id = p.pizza_id
  join orders as o
  on o.order_id = od.order_id
  group by 1
)
select order_date, sum(revenue) over(order by order_date) as cum_revenue
from sales
```



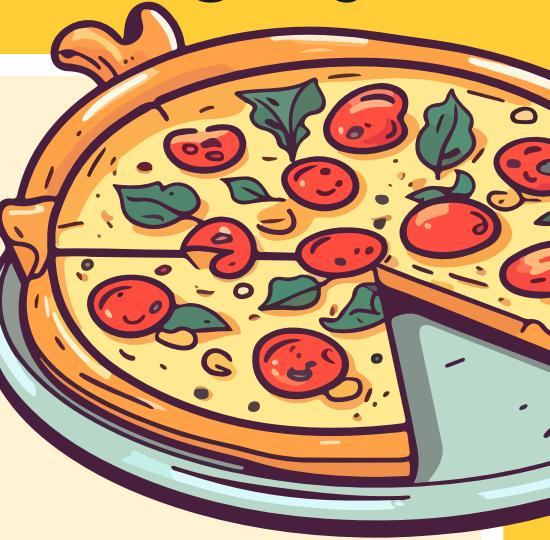
Result Grid | Filter Rows:

	order_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

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

```
with sales as (
    select pt.name, pt.category, round(sum(p.price*od.quantity), 2) as total_revenue
    from pizza_types as pt
    join pizzas as p
    on pt.pizza_type_id = p.pizza_type_id
    join order_details as od
    on p.pizza_id = od.pizza_id
    group by 1, 2
),
rank_category as(
    select category, name, total_revenue,
    dense_rank() over(partition by category order by total_revenue desc) as top_3_pizza_per_category
    from sales
)
select category, name, total_revenue
from rank_category
where top_3_pizza_per_category<=3;
```

	category	name	total_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	32265.7
	Veggie	The Mexicana Pizza	26780.75
	Veggie	The Five Cheese Pizza	26066.5





Thank You