



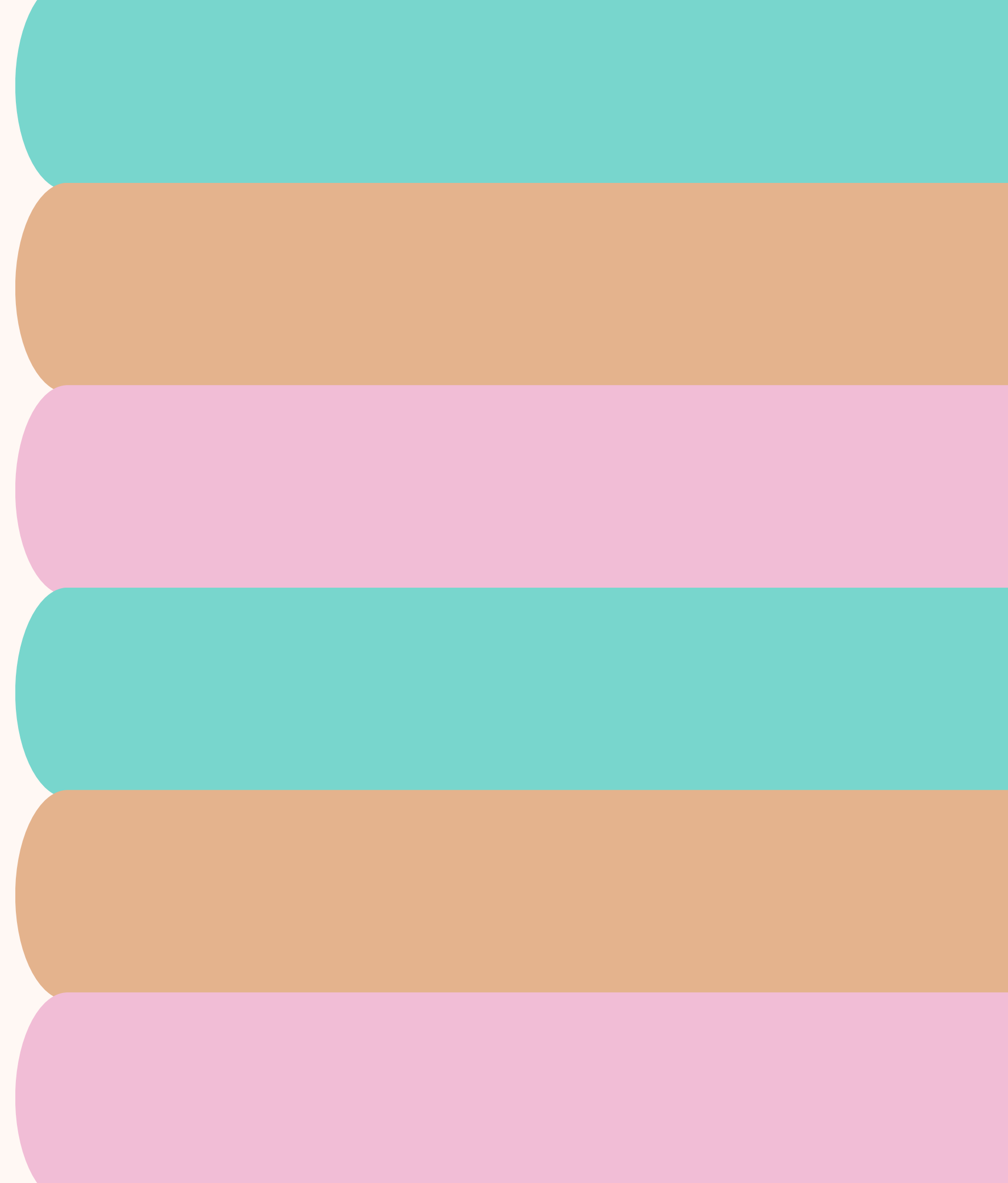
SQL Project on Pizza Sales



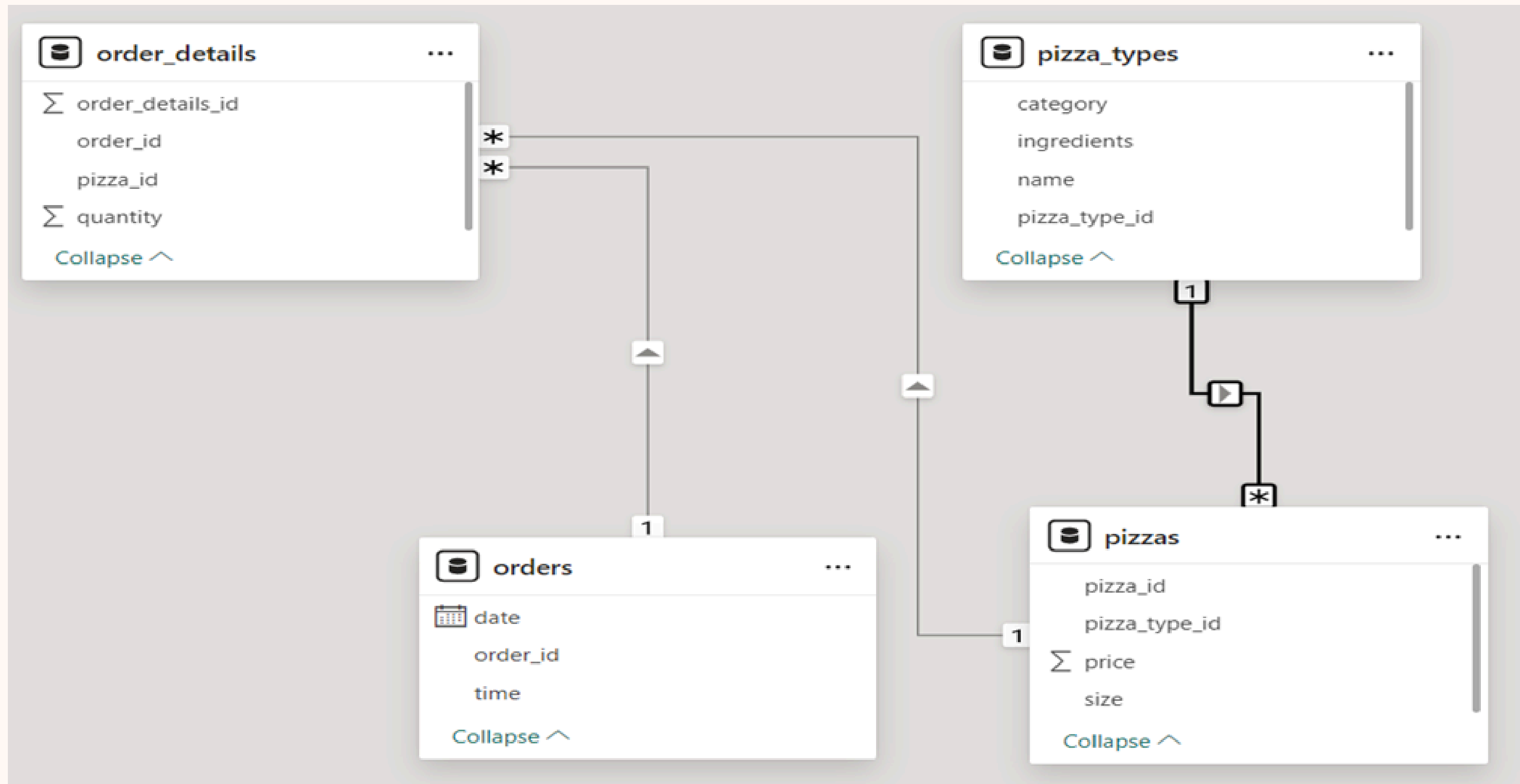


Introduction

My name is Monika Kumari and in this project i have utilized SQL queries to solve a questions related to pizza sales.



Data Model



Questions

- 1.Retrieve the total number of orders placed.*
- 2.Calculate the total revenue generated from pizza sales.*
- 3.Identify the highest-priced pizza.*
- 4.Identify the most common pizza size ordered.*
- 5.List the top 5 most ordered pizza types along With their quantities.*
- 6.Join the necessary tables to find the total quantity of each pizza category ordered.*
- 7. Determine the distribution of orders by hour of the day.*
- 8.Join relevant tables to find the category-wise distribution of pizzas.*
- 9.Group the orders by date and calculate the average number of pizzas ordered per day.*
- 10.Determine the top 3 most ordered pizza types based on revenue.*
- 11.Calculate the percentage contribution of each pizza type to total revenue.*
- 12Analyze the cumulative revenue generated over time.*
- 13.Determine the top 3 most ordered pizza types based on revenue for each pizza category.*

**Retrieve
the total
number of
orders
placed.**

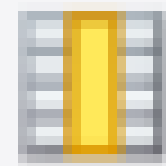
```
SELECT
```

```
    COUNT(order_id) AS total_orders
```

```
FROM
```

```
orders;
```

Result Grid



	total_orders
▶	21350



21350



Calculate
the total
revenue
generated
from pizza
sales.

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

Result Grid	
	total_sales
▶	817860.05



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 Rows		
	name	price
▶	The Greek Pizza	35.95

Identify the most common pizza size ordered.

```
SELECT
    pizzas.size,
    COUNT(orders_details.order_details_id) AS order_count
FROM
    pizzas
    JOIN
        orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

Result Grid   Filter		
	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

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

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity 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	

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

SELECT

```
    pizza_types.category,  
    SUM(orders_details.quantity) AS quantity
```

FROM

```
    pizza_types
```

JOIN



```
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
```

JOIN

```
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
```



GROUP BY pizza_types.category

ORDER BY quantity **DESC**;

Result Grid					Filter
	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 order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

Result Grid					Filter
	hour	order_count			
▶	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			



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

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

Result Grid   Filter Rows		
	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) as avg_pizza_ordered_per_day
FROM
    (SELECT
        orders.order_date, SUM(orders_details.quantity) AS quantity
    FROM
        orders
    JOIN orders_details ON orders.order_id = orders_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

Result Grid   Filter Rows	
	avg_pizza_ordered_per_day
▶	138



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

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
    JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
    orders_details ON orders_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	

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

```
SELECT
    pizza_types.category,
    ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(orders_details.quantity * pizzas.price),
            2) AS total_sales
    FROM
        orders_details
        JOIN
        pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,2) AS revenue
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON orders_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(orders_details.quantity * pizzas.price) as revenue  
from orders_details join pizzas  
on orders_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = orders_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	
	2015-01-09	21526.4	
	2015-01-10	23990.350000000002	
	2015-01-11	25862.65	
	2015-01-12	27781.7	
	2015-01-13	29831.300000000003	
	2015-01-14	32358.700000000004	
	2015-01-15	34343.50000000001	
	2015-01-16	36937.65000000001	
	2015-01-17	39001.75000000001	
	2015-01-18	40978.600000000006	
	2015-01-19	43365.75000000001	
	2015-01-20	45763.65000000001	
	2015-01-21	47804.20000000001	
	2015-01-22	50300.90000000001	
	2015-01-23	52724.600000000006	
	2015-01-24	55013.850000000006	
	2015-01-25	56631.40000000001	

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((orders_details.quantity) * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_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	32265.700000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	

THANKS
YOU

