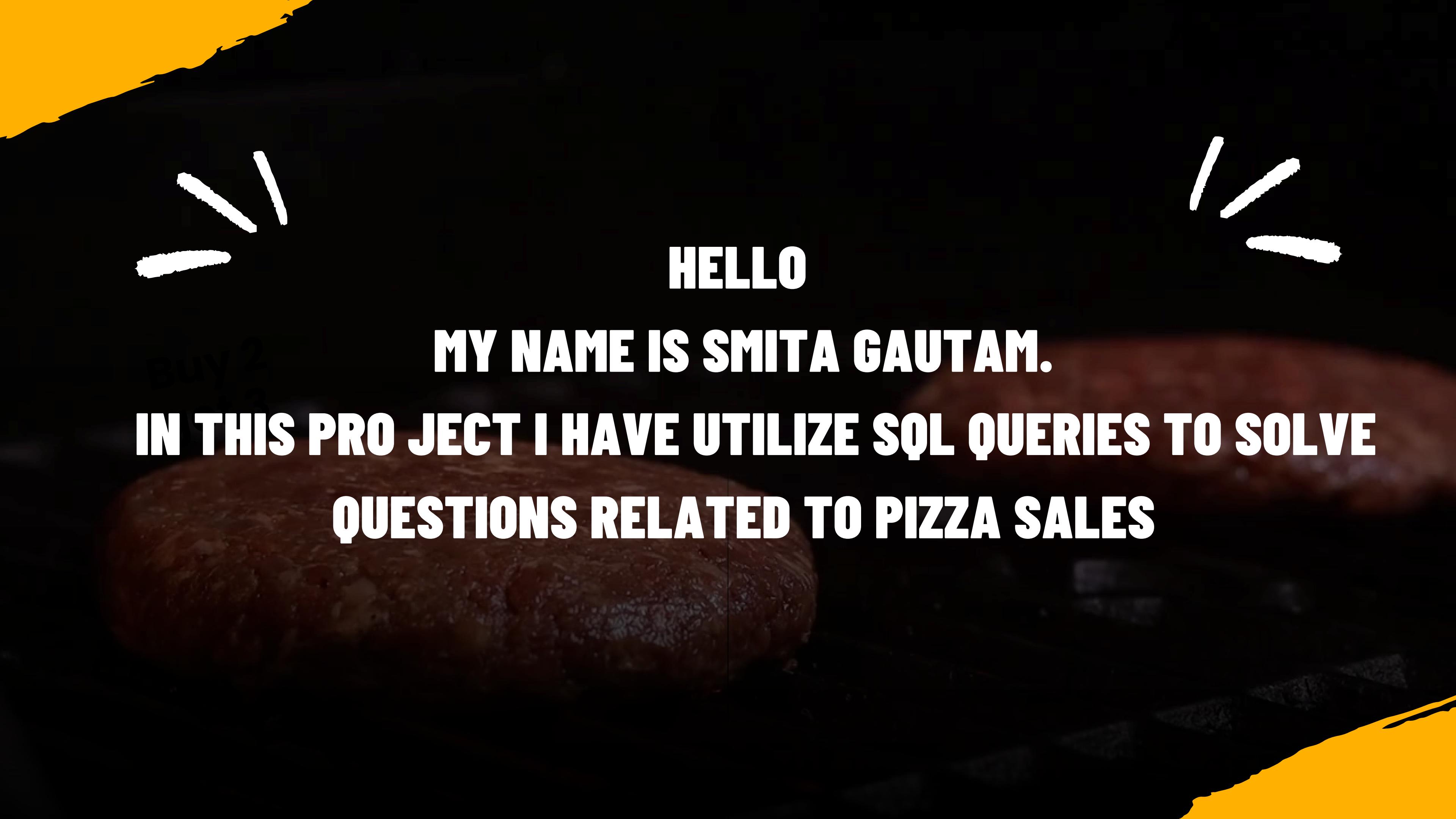


SQL project on

PIZZA SALES





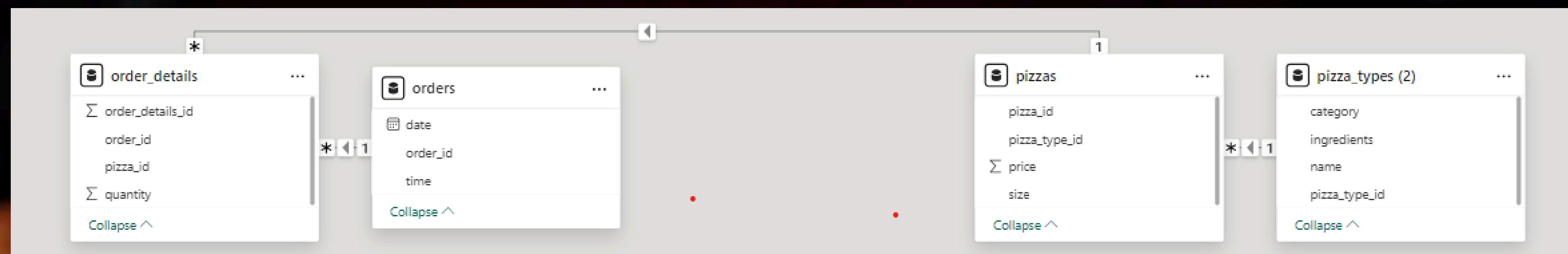
HELLO

MY NAME IS SMITA GAUTAM.

IN THIS PROJECT I HAVE UTILIZE SQL QUERIES TO SOLVE

QUESTIONS RELATED TO PIZZA SALES

data modelg



Retrieve the total number of orders placed

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

	count(order_id)
▶	21350

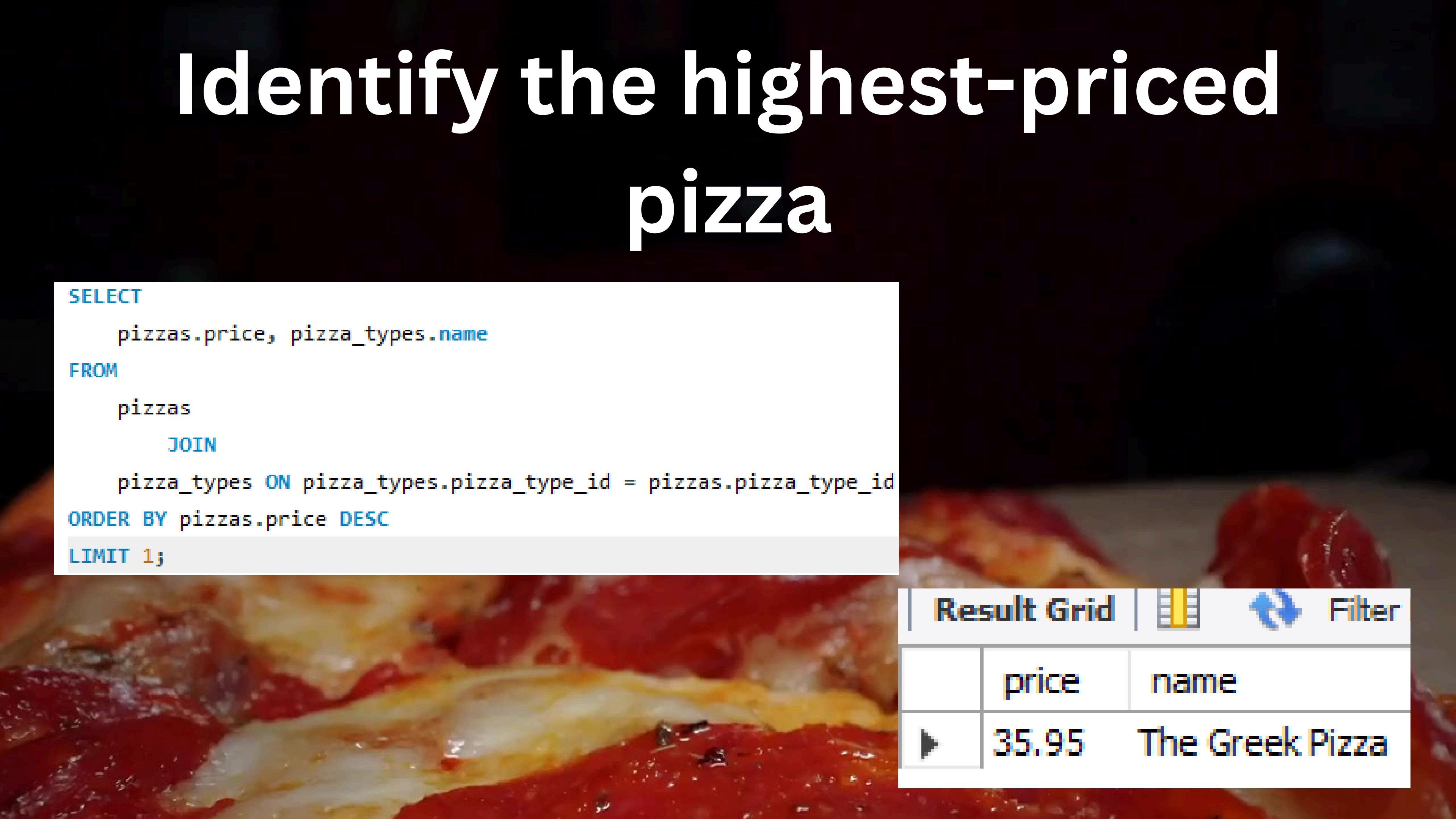
Calculate the total revenue generated from pizza sales

```
SELECT  
    ROUND(SUM(orders_detail.quantity * pizzas.price),  
        2) AS total_revenue  
FROM  
    orders_detail  
    JOIN  
    pizzas ON orders_detail.pizza_id = pizzas.pizza_id;
```

Result Grid	total_revenue
817860.05	

Identify the highest-priced pizza

```
SELECT
    pizzas.price, pizza_types.name
FROM
    pizzas
        JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```



A close-up photograph of a pizza slice with toppings like pepperoni and cheese.

	price	name
→	35.95	The Greek Pizza

Result Grid | Filter

Identify the most common pizza size ordered.

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

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

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

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

	quantity	pizza_type_id
▶	2453	classic_dlx
	2432	bbq_dkn
	2422	hawaiian
	2418	pepperoni
	2371	thai_dkn

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

```
SELECT
```

```
    pizza_types.category,  
    SUM(orders_detail.quantity) AS quantity  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
        JOIN  
    orders_detail ON orders_detail.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.category  
ORDER BY quantity DESC;
```

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day

```
SELECT  
    HOUR(orders.time) AS hours, COUNT(order_id) AS orders_count  
FROM  
    orders  
GROUP BY HOUR(orders.time);
```

	hours	orders_count
11	1231	
12	2520	
13	2455	
14	1472	
15	1468	
16	1920	
17	2336	
18	2399	
19	2009	
20	1642	
21	1198	

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

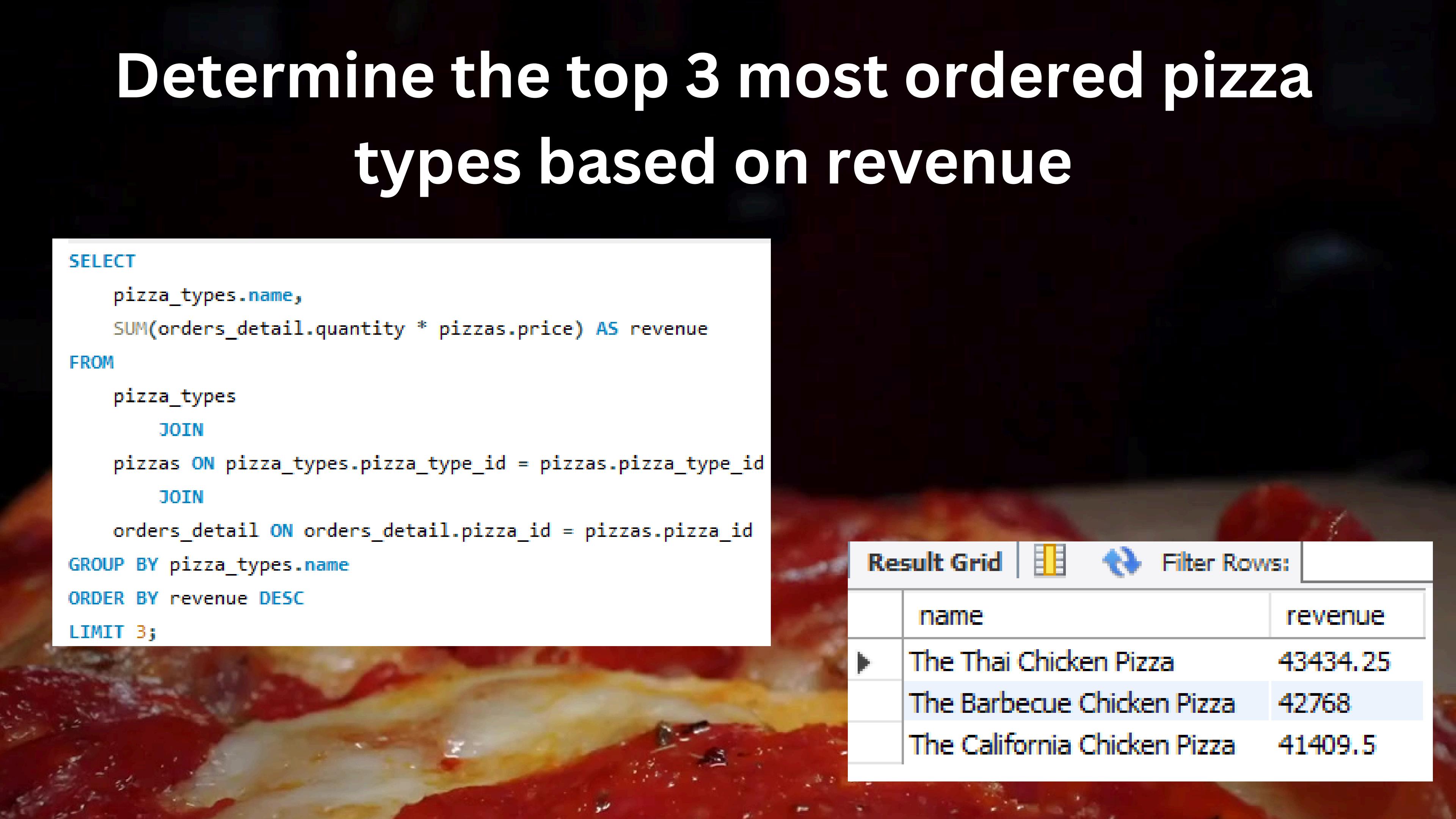
Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT  
    ROUND(AVG(quantity), 0) AS avg_orders_per_day  
FROM  
    (SELECT  
        orders.date, SUM(orders_detail.quantity) AS quantity  
    FROM  
        orders  
    JOIN orders_detail ON orders.order_id = orders_detail.order_id  
    GROUP BY orders.date) AS ordered_quantity;
```

	avg_orders_per_day
▶	138

Determine the top 3 most ordered pizza types based on revenue

```
SELECT
    pizza_types.name,
    SUM(orders_detail.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_detail ON orders_detail.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```



A close-up photograph of a pizza slice with toppings like cheese and meat.

	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_detail.quantity * pizzas.price) / (SELECT
        ROUND(SUM(orders_detail.quantity * pizzas.price),
        2) AS total_revenue
    )
FROM
    orders_detail
        JOIN
    pizzas ON pizzas.pizza_id = orders_detail.pizza_id) * 100 , 2) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    orders_detail ON orders_detail.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

	category	revenue
→	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Analyze the cumulative revenue generated over time.

```
select date,  
       sum(revenue) over( order by date) as cumu_revenue  
  from  
(select orders.date ,  
           sum(orders_detail.quantity* pizzas.price) as revenue from  
         orders_detail join pizzas on orders_detail.pizza_id = pizzas.pizza_id  
        join orders on orders.order_id= orders_detail.order_id group by orders.date)as sales;
```

	date	cumu_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	23990.35000000002
	2015-01-11	25862.65

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

```
select name, revenue , RN  
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_detail.quantity * pizzas.price) as revenue from  
pizza_types join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id  
join orders_detail on orders_detail.pizza_id = pizzas.pizza_id  
group by pizza_types.category, pizza_types.name) as A) as B where RN <= 3;
```

	name	revenue	RN
▶	The Thai Chicken Pizza	43434.25	1
	The Barbecue Chicken Pizza	42768	2
	The California Chicken Pizza	41409.5	3
	The Classic Deluxe Pizza	38180.5	1
	The Hawaiian Pizza	32273.25	2
	The Pepperoni Pizza	30161.75	3
	The Spicy Italian Pizza	34831.25	1
	The Italian Supreme Pizza	33476.75	2
	The Sicilian Pizza	30940.5	3
	The Four Cheese Pizza	32265.70000000065	1
	The Mexicana Pizza	26780.75	2
	The Five Cheese Pizza	26066.5	3



THANK YOU
FOR WATCHING