





WELCOME I AM ABHIK DAS

In this project, I have utilized SQL queries to solve real-life problems. This project focuses on analyzing and deriving insights from a pizza sales dataset using SQL. The dataset contains information about customer orders, pizzas sold, their types, prices, and quantities. The goal of this project is to answer key business questions that can help a pizza store optimize its operations, understand customer preferences, and improve overall sales performance.







OBJECTIVES:

1. ANALYZE SALES PERFORMANCE:

- Calculate total sales and revenue trends over time.
- Identify the best-selling pizza types and categories.

2. CUSTOMER INSIGHTS:

- Determine customer preferences based on pizza types and sizes.
- Analyze the frequency of repeat orders.

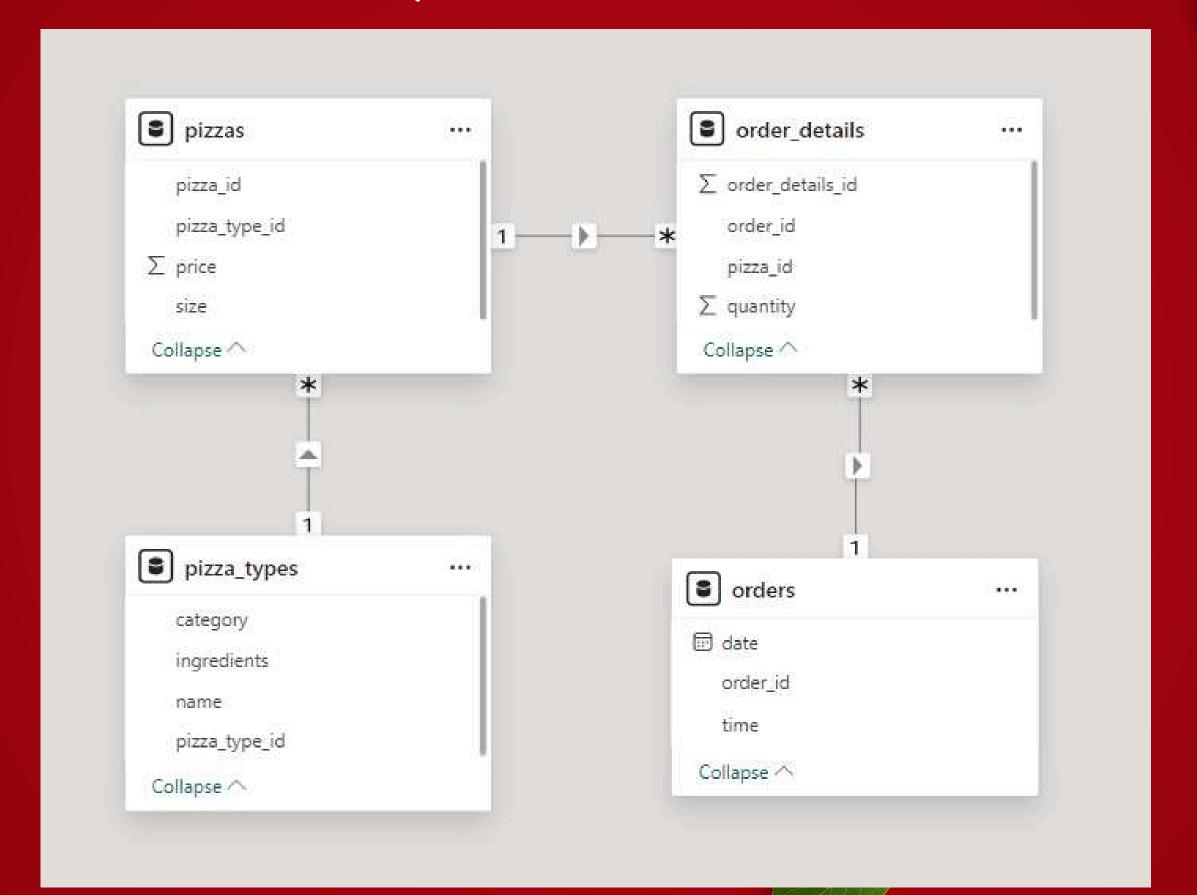
3. REVENUE OPTIMIZATION:

- Calculate the percentage revenue contribution of each pizza type/category.
- Identify low-performing pizzas to focus marketing or revise the menu.

4. OPERATIONAL EFFICIENCY:

- Understand peak order times and days to optimize staffing and inventory.
- Evaluate the average order size and value to improve upselling strategies.

DATABASE STRUCTURE AND TABLE RELATIONSHIPS





THERE ARE 13 QUESTIONS THAT HAS BEEN SOLVED THROUGH THIS PROJECT

Basic:

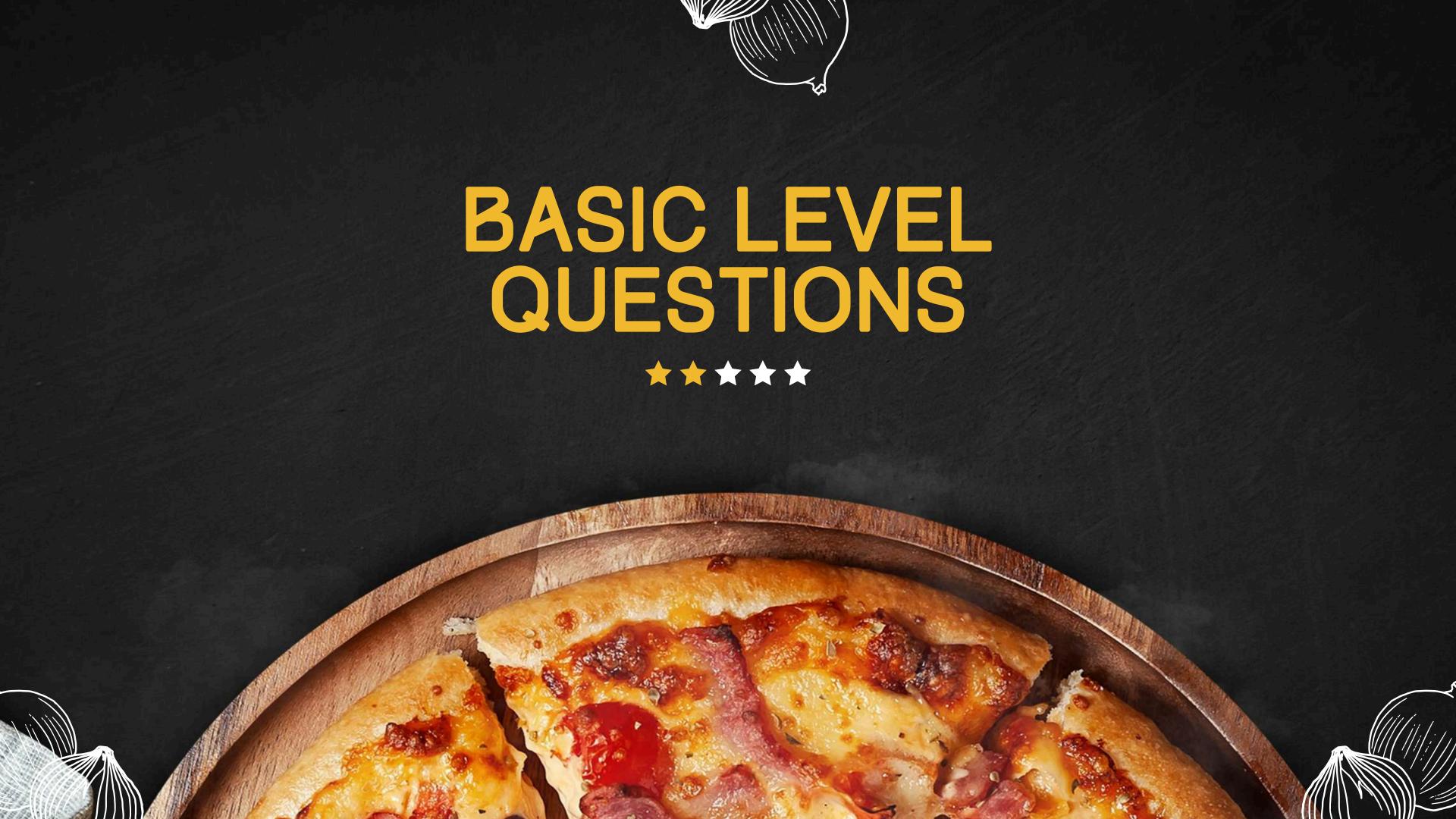
- 1.Retrieve the total number of orders placed.
- 2. Calculate the total revenue generated from pizza sales.
- 3. Identify the highest-priced pizza.
- 4. Identify the most common pizza size ordered.
- 5.List the top 5 most ordered pizza types along with their quantities.

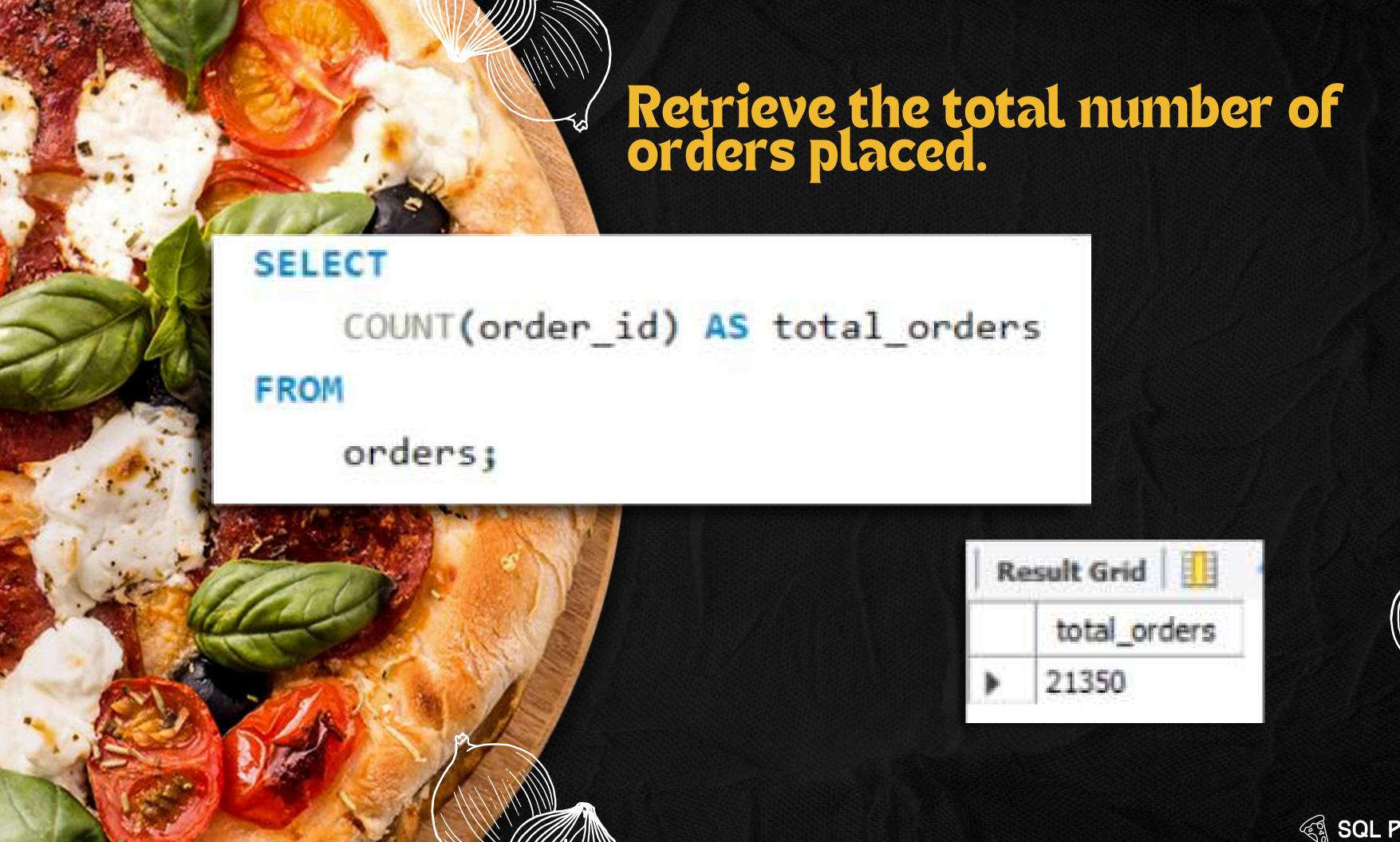
Intermediate:

- 1. Join the necessary tables to find the total quantity of each pizza category ordered.
- 2.Determine the distribution of orders by hour of the day.
- 3. Join relevant tables to find the category-wise distribution of pizzas.
- 4.Group the orders by date and calculate the average number of pizzas ordered per day.
- 5.Determine the top 3 most ordered pizza types based on revenue.

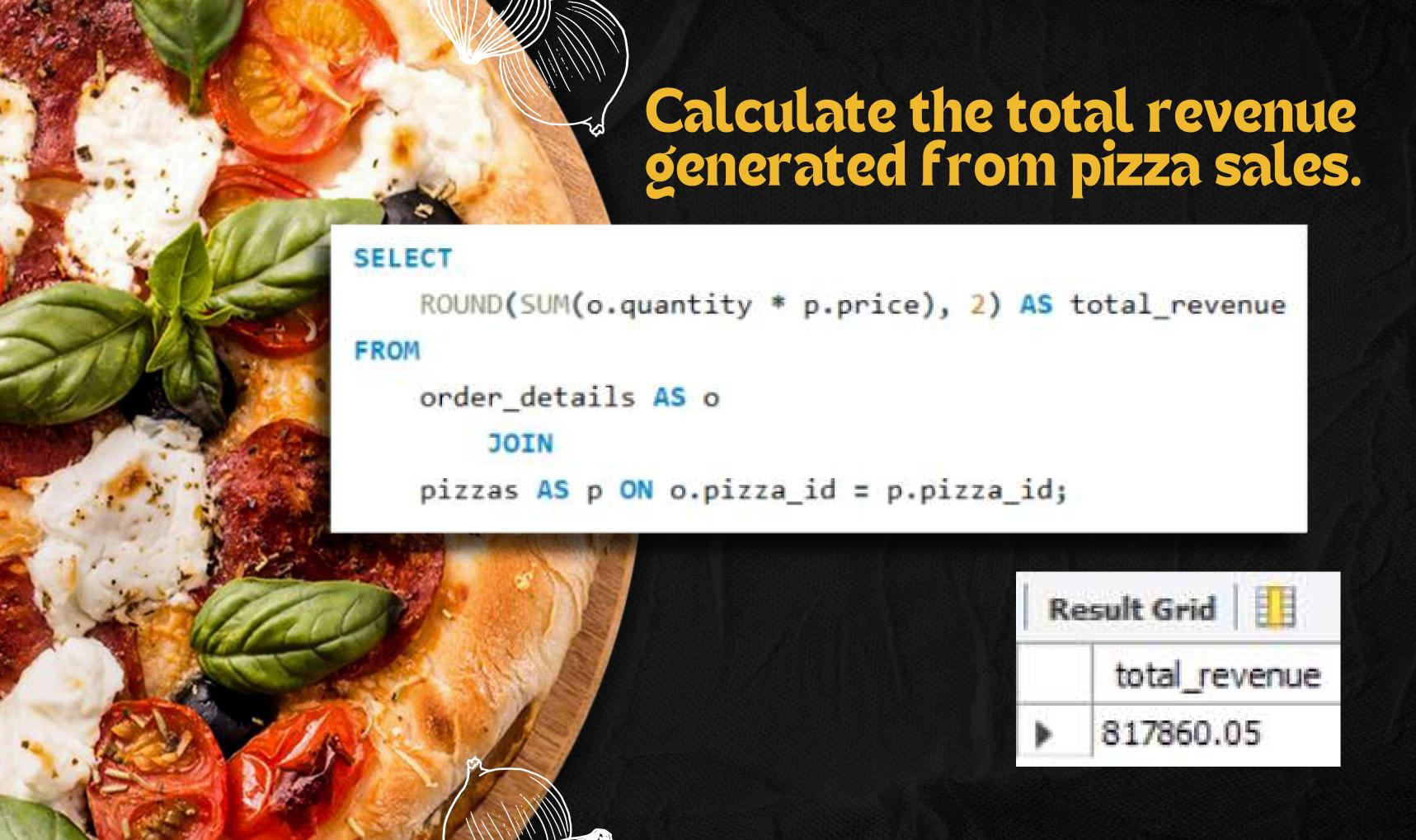
Advanced:

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





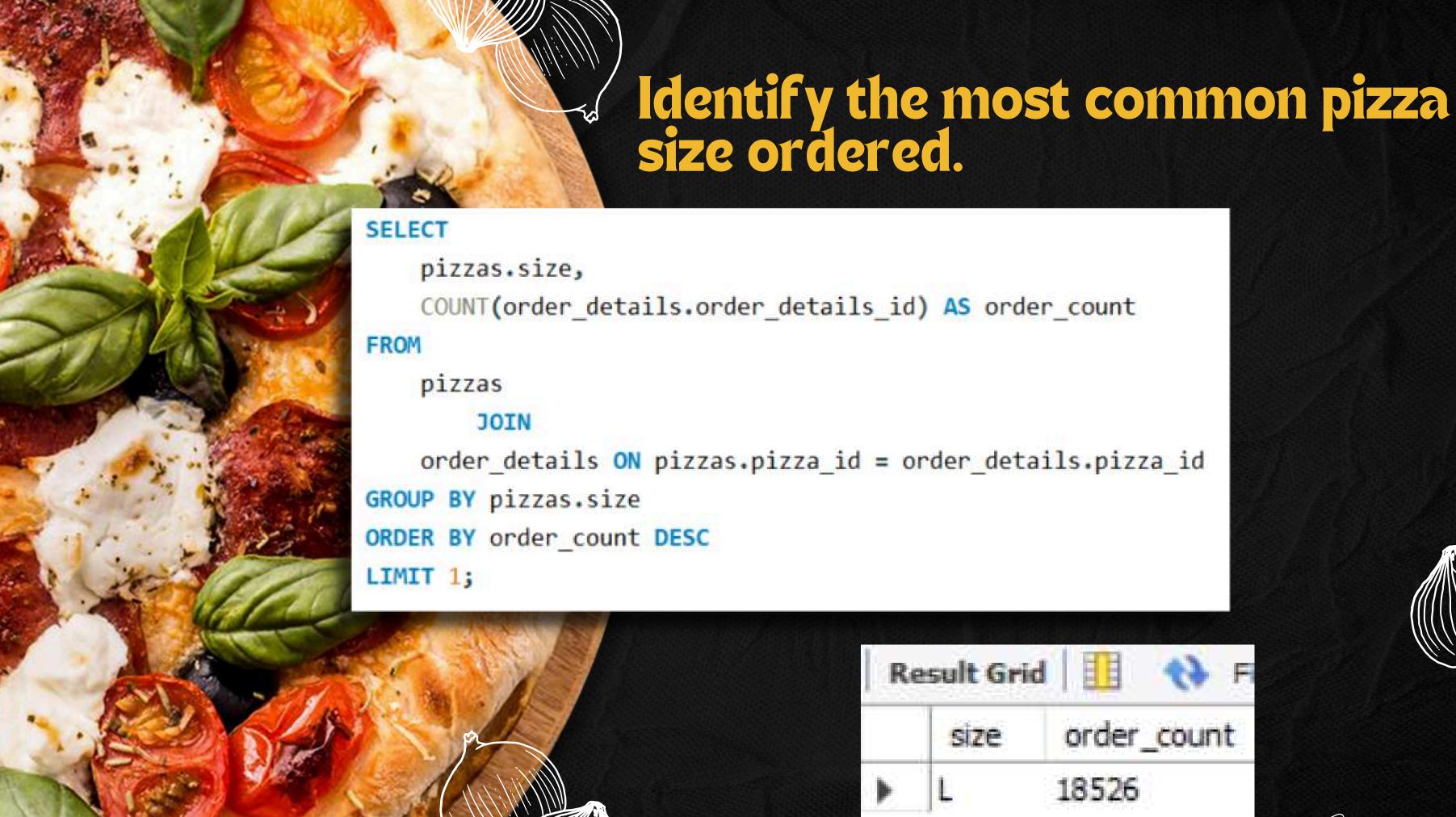




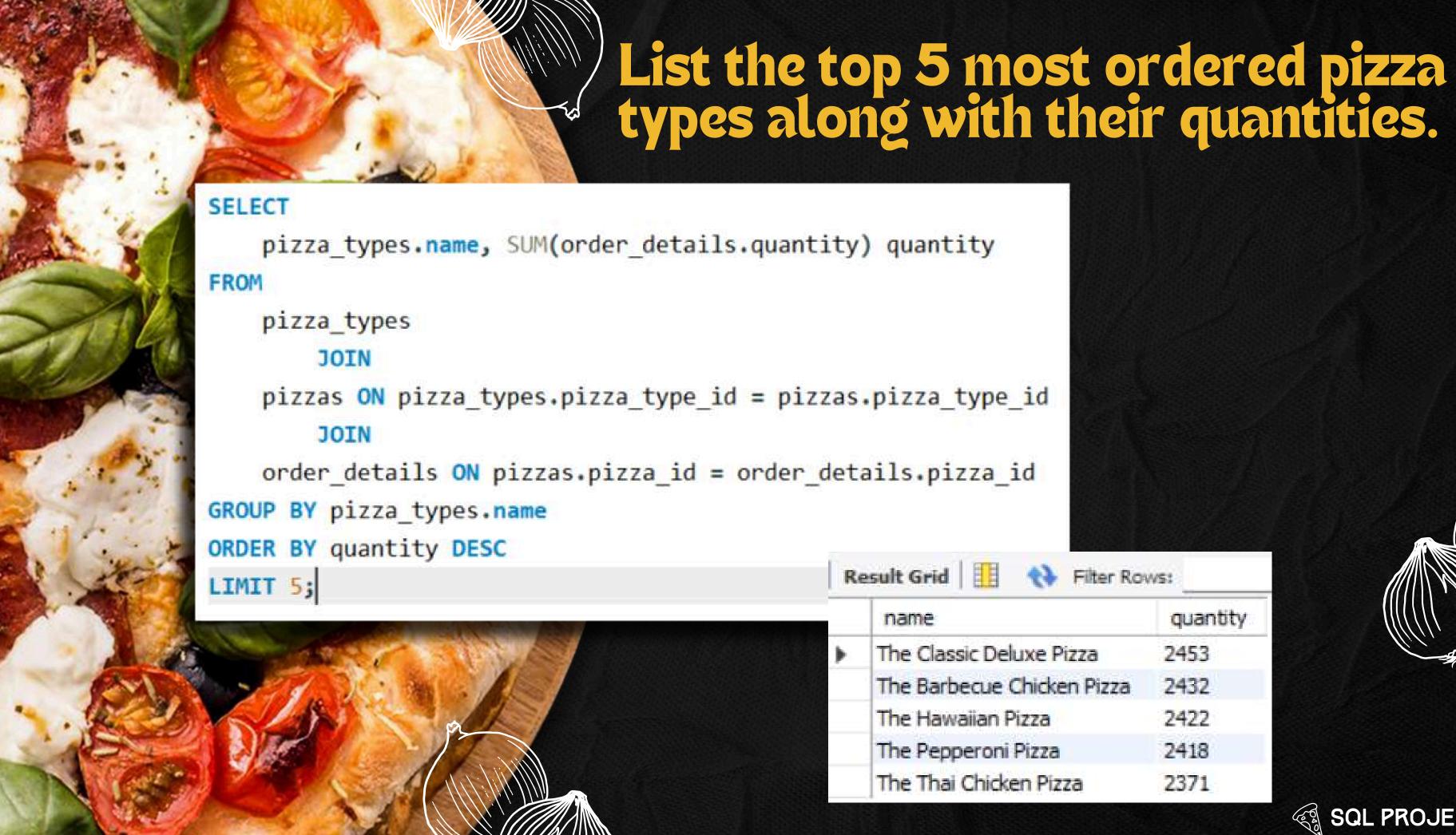








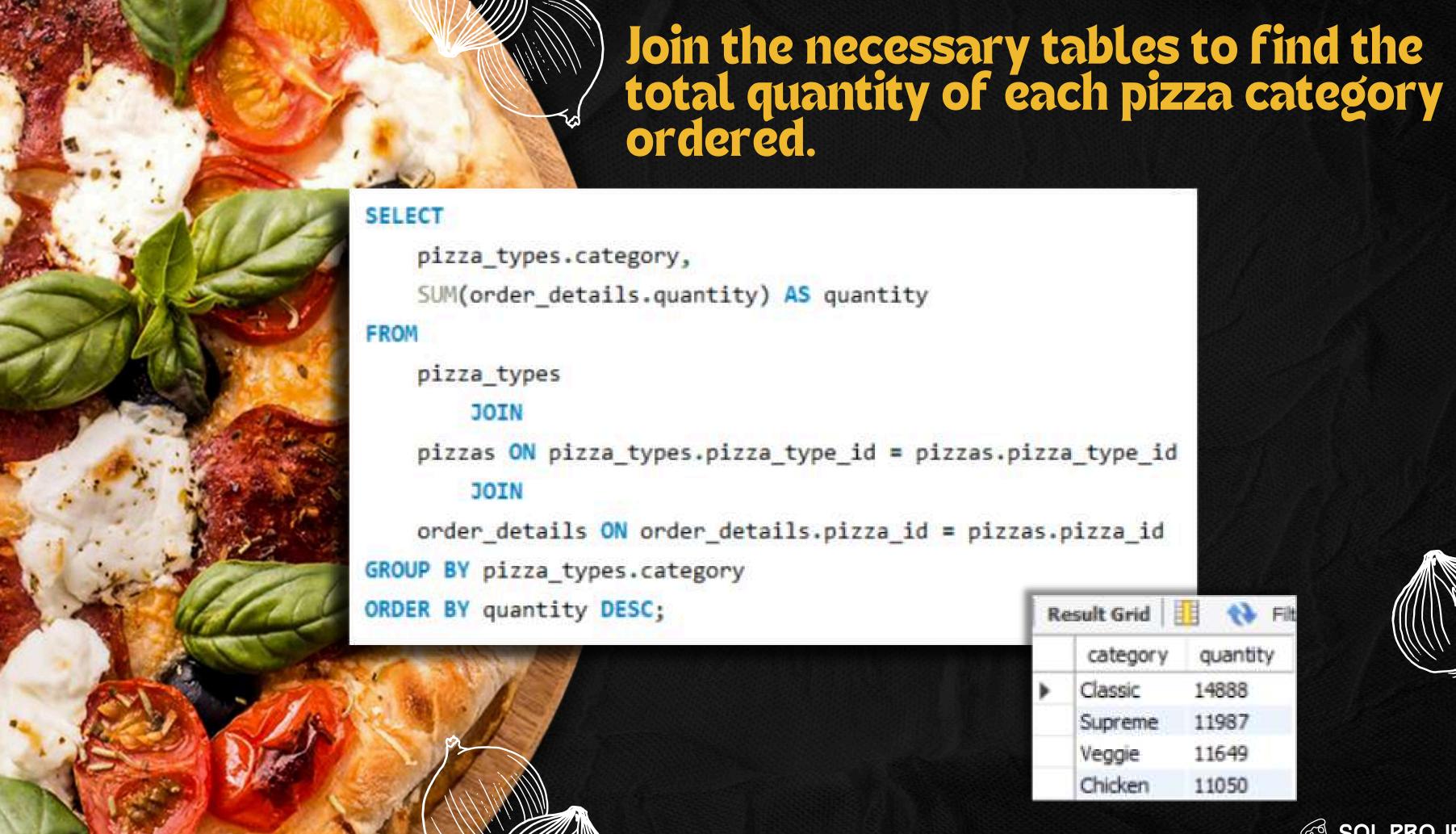






INTERMEDIATE LEVEL QUESTIONS *****









Determine the distribution of orders by hour of the day.

SELECT

HOUR(order_time), COUNT(order_id) AS order_count

FROM

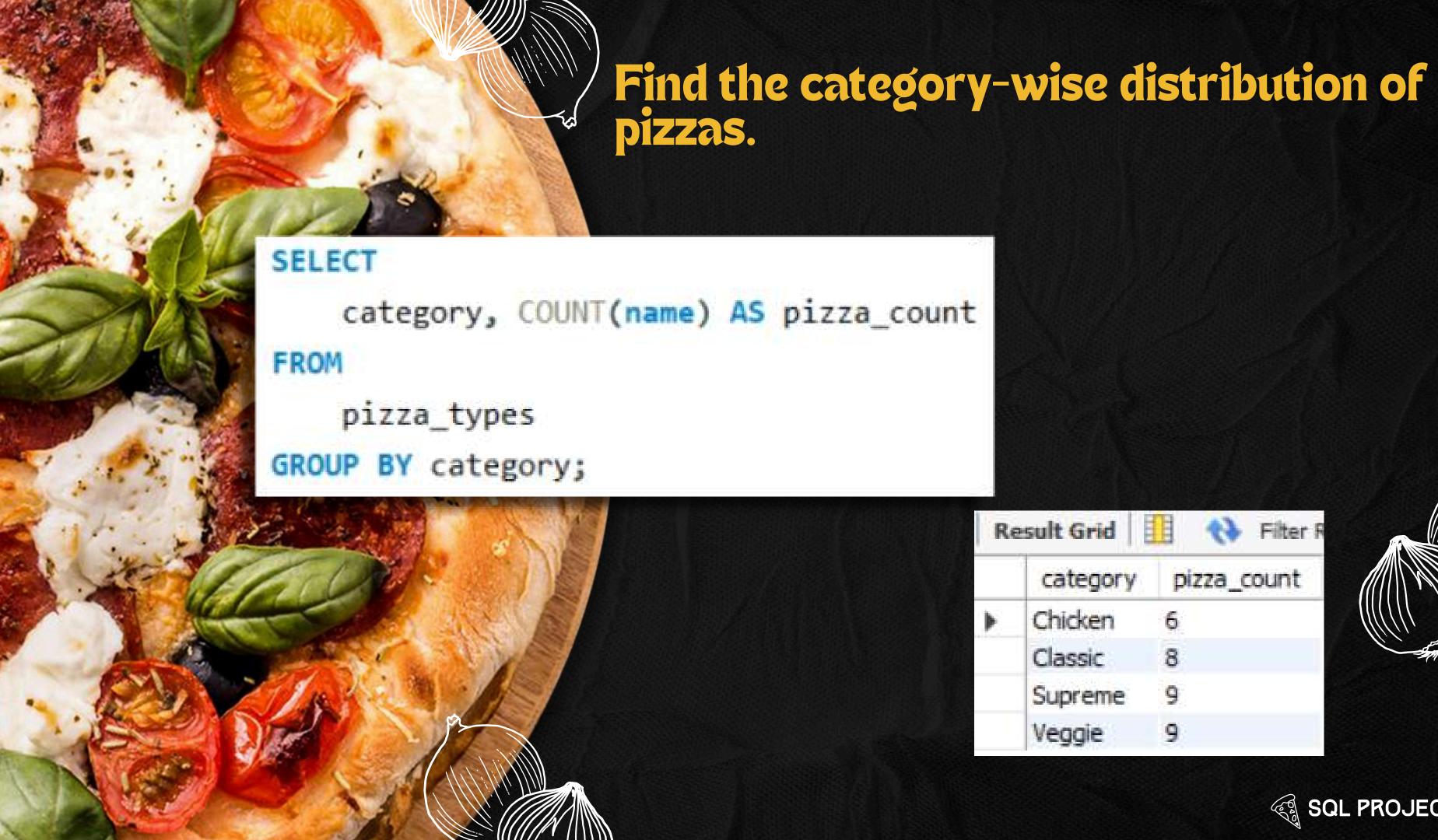
orders

GROUP BY HOUR(order_time);

	HOUR(order_time)	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	



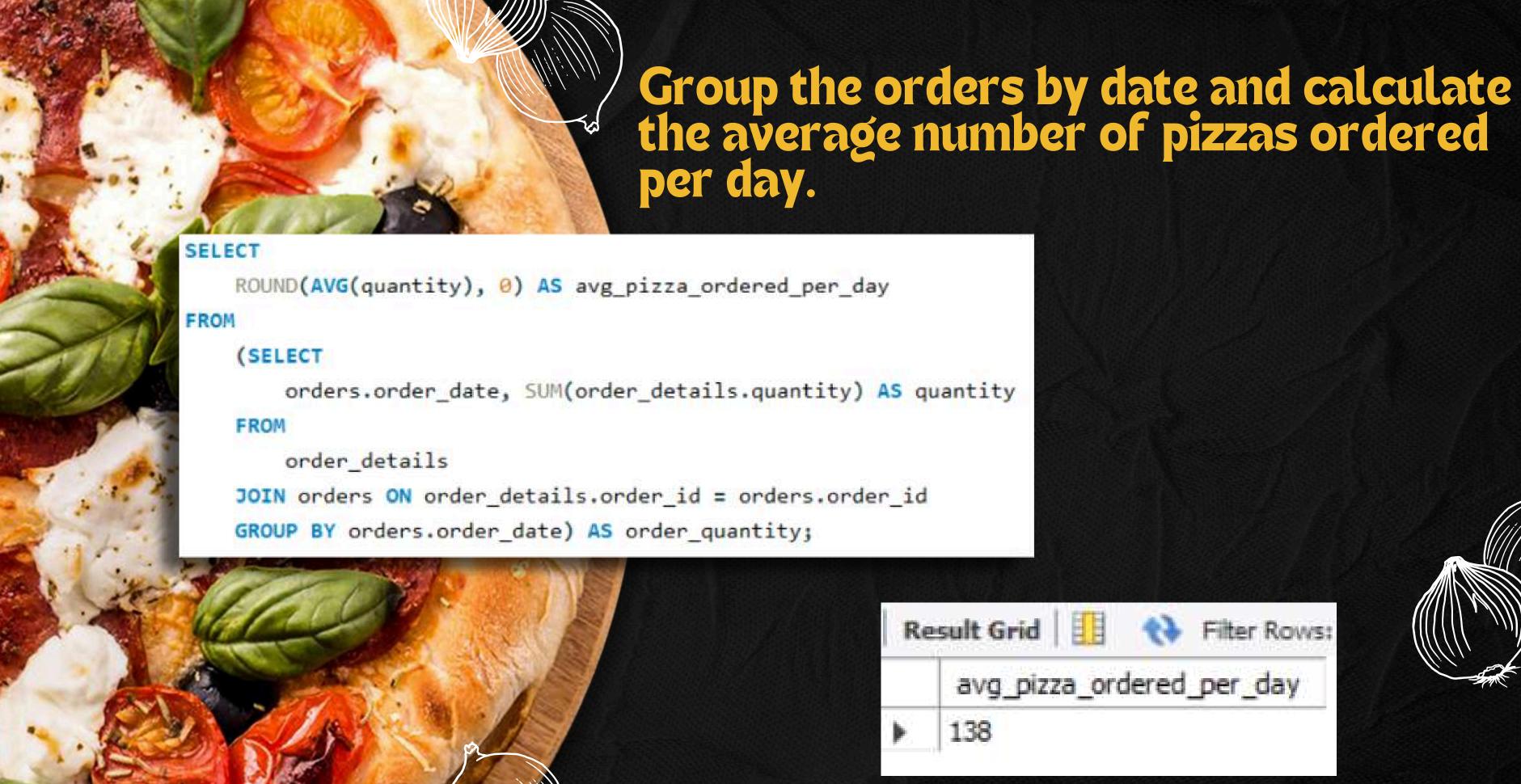




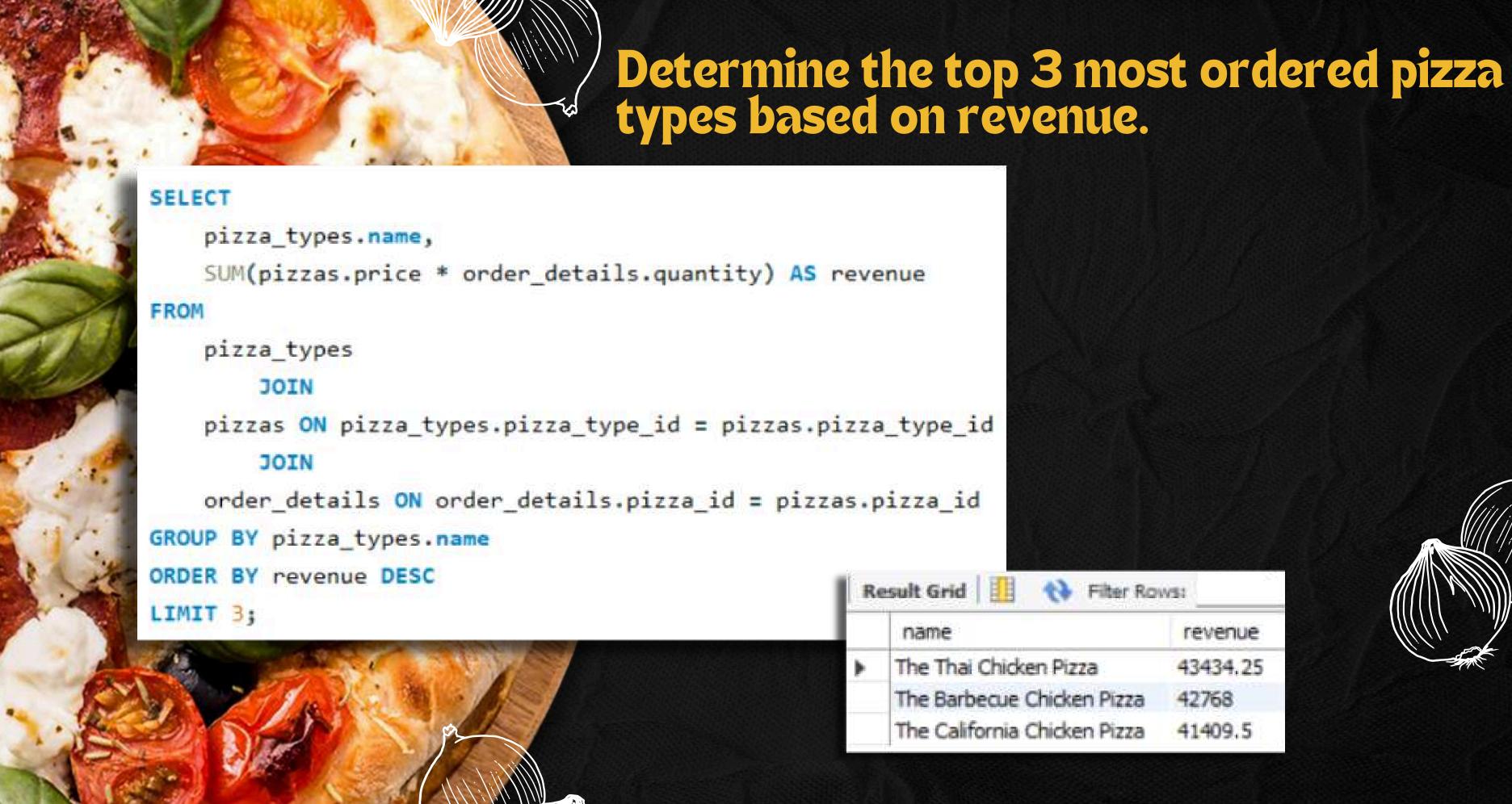


Filter R

pizza_count

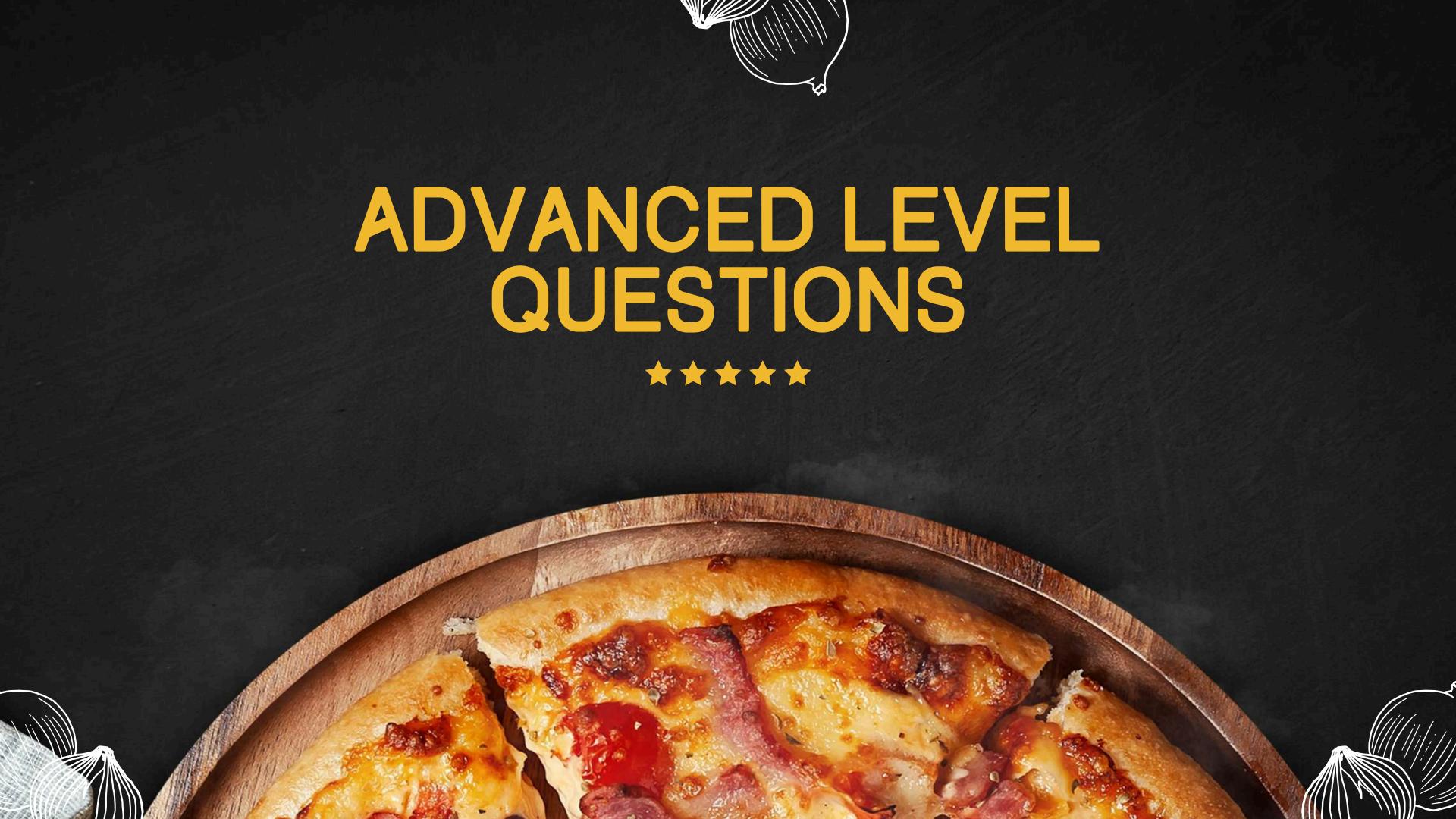












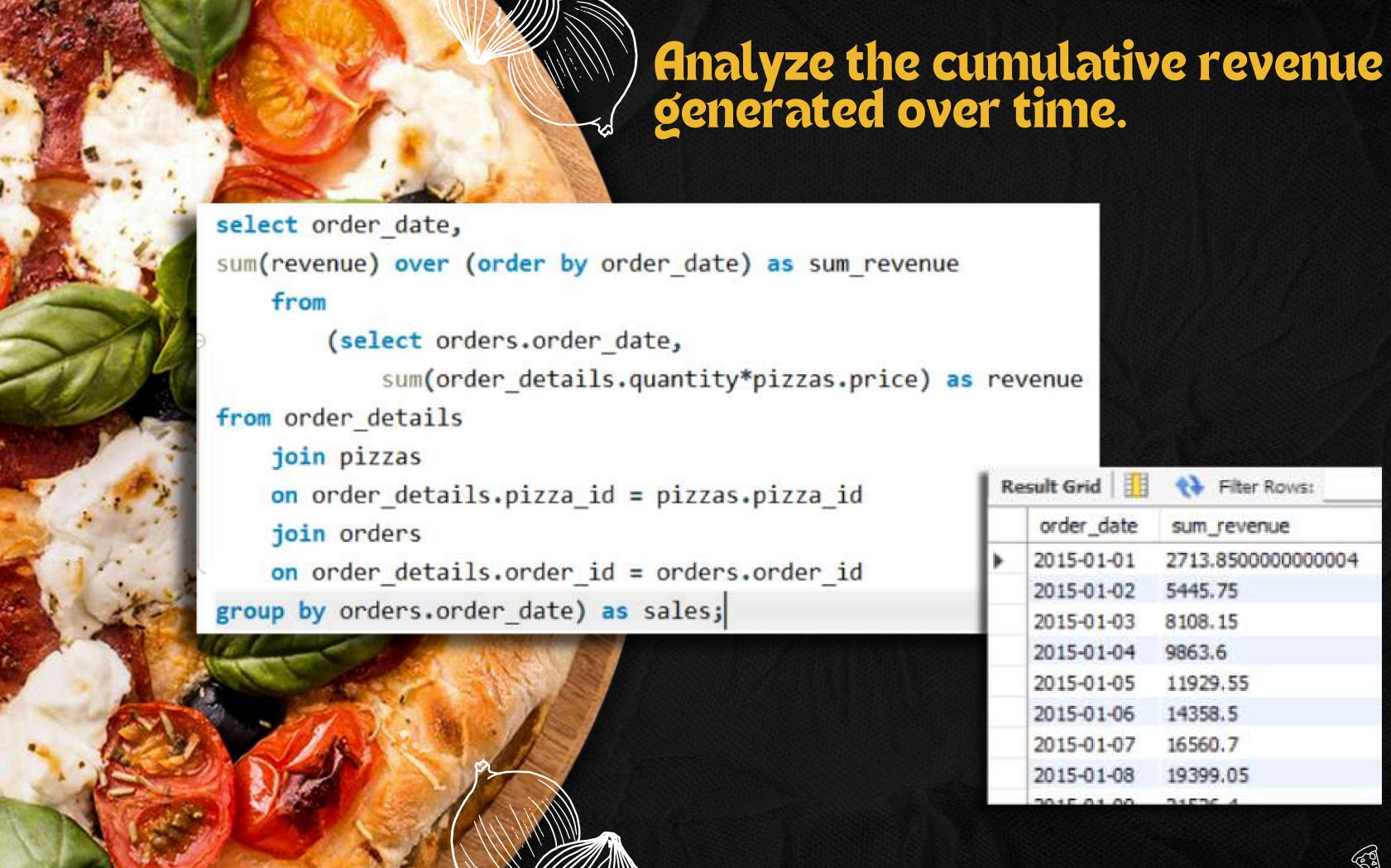


Calculate the percentage contribution of each pizza type to total revenue.

Re	esult Grid	Filter Rows:
	category	revenue_contribution
Þ	Classic	26.91%
	Supreme	25.46%
	Chicken	23.96%
	Veggie	23.68%









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

```
select category, name, revenue, ranking from
    (select category, name, revenue,
        rank () over (partition by category order by revenue) as ranking
        from
    (select pizza_types.category, pizza_types.name,
            sum(order_details.quantity*pizzas.price) as revenue
                from order details
                join pizzas
                    on order_details.pizza_id = pizzas.pizza_id
                join pizza_types
                    on pizzas.pizza_type_id = pizza_types.pizza_type_id
                group by pizza_types.category, pizza_types.name) as table_a) as table_b
where ranking <= 3;
```

R	esult Grid	# Pilter Rows:	export:	Wrap Cell Co	ontent: IA
	category	name	revenu	e	ranking
۰	Chicken	The Chicken Pesto Pizza	16701.7	16701.75	
	Chicken	The Chicken Alfredo Pizza	16900.2	25	2
	Chicken	The Southwest Chicken Pizza	34705.7	34705.75	
	Classic	The Pepperoni, Mushroom, and Peppers Pizz	a 18834.5	18834.5	
	Classic	The Big Meat Pizza	22968		2
	Classic	The Napolitana Pizza	24087		3
	Supreme The Brie Carre Pizza		11588.4	11588.4999999999	
	Supreme	The Spinach Supreme Pizza	15277.7	75	2
	Supreme The Calabrese Pizza		15934.2	15934.25	
	Veggie	The Green Garden Pizza	13955.7	75	1
	Veggie	The Mediterranean Pizza	15360.5	5	2
	Veggie	The Spinach Pesto Pizza	15596		3



