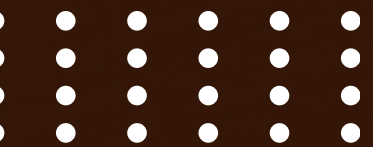


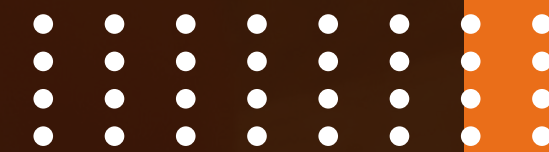
Where Every Slice is a Taste of Perfection

PIZZA SALES ANALYSIS USING SQL QUERIES



WELCOME TO PIZZA RESTO





HELLOOO!!!!

I'm Aishwarya Singh, and I have worked on SQL queries for analyzing pizza sales data. In this presentation, I will showcase how these queries help in understanding sales trends, customer preferences, and overall business performance. Through this, we can see how SQL is used to extract meaningful insights from data efficiently.

PIZZA TYPES

THE THAI CHICKEN PIZZA

THE BARBECUE CHICKEN PIZZA

THE ITALIAN SUPREME PIZZA

THE CALIFORNIA CHICKEN PIZZA

THE HAWAIIAN PIZZA

THE PEPPERONI PIZZA

THE SPICY ITALIAN PIZZA

THE CLASSIC DELUXE PIZZA

THE SICILIAN PIZZA

THE MEXICANA PIZZA

THE FIVE CHEESE PIZZA

THE FOUR CHEESE PIZZA



In this presentation, I have solved a total of 14 SQL queries based on pizza sales data. It includes 6 basic queries, focusing on simple data retrieval and filtering, 5 intermediate queries, involving aggregations and joins, and 3 advanced queries, which handle complex analysis and optimization. This showcases how SQL can be used at different levels to extract meaningful insights from data efficiently.

The dataset contains the following files:

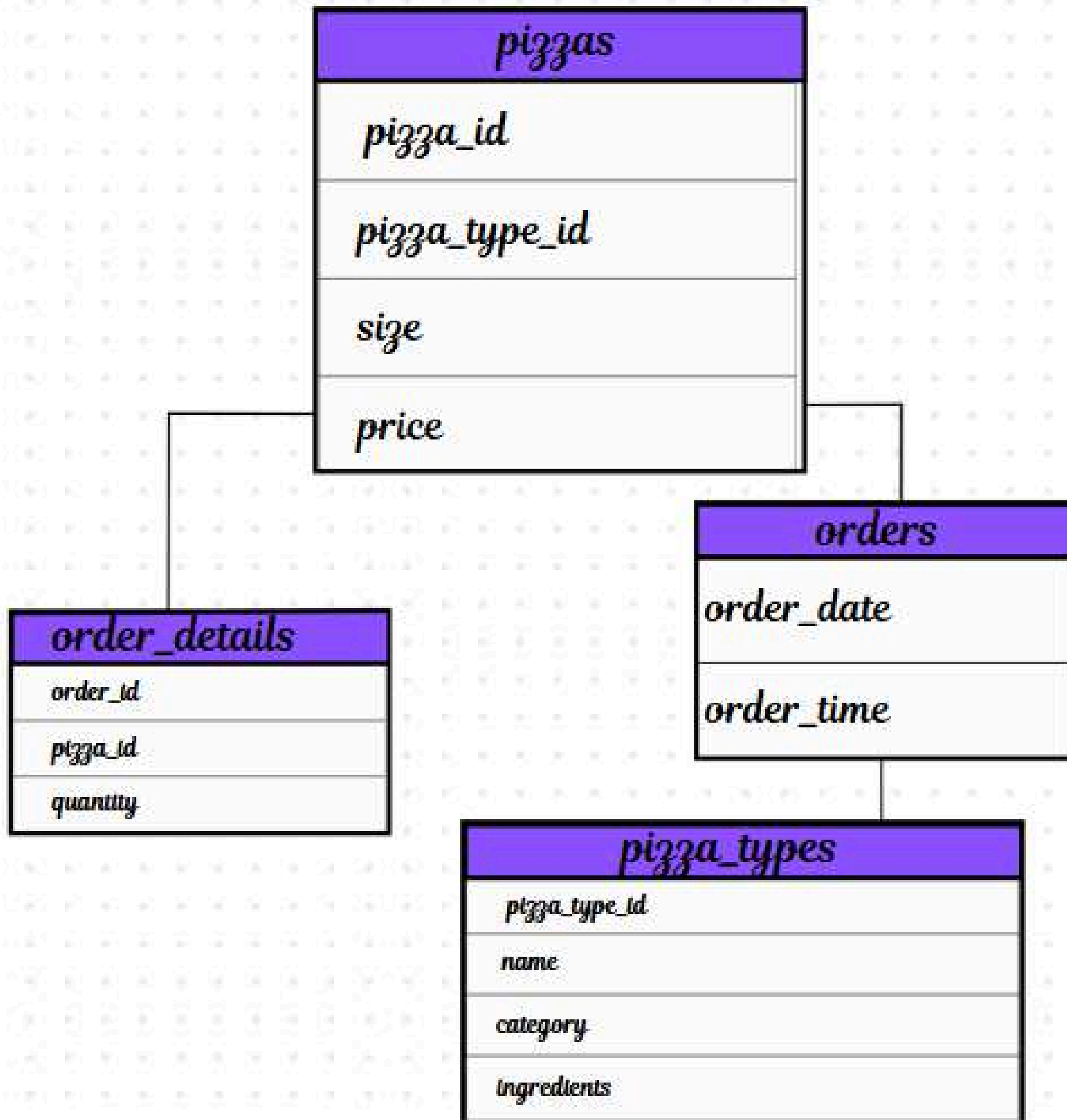
1.order_details – Contains details of each pizza in an order.

2.orders – Stores order-related information (like order date and time).

3.pizza_types– Describes different types of pizzas.

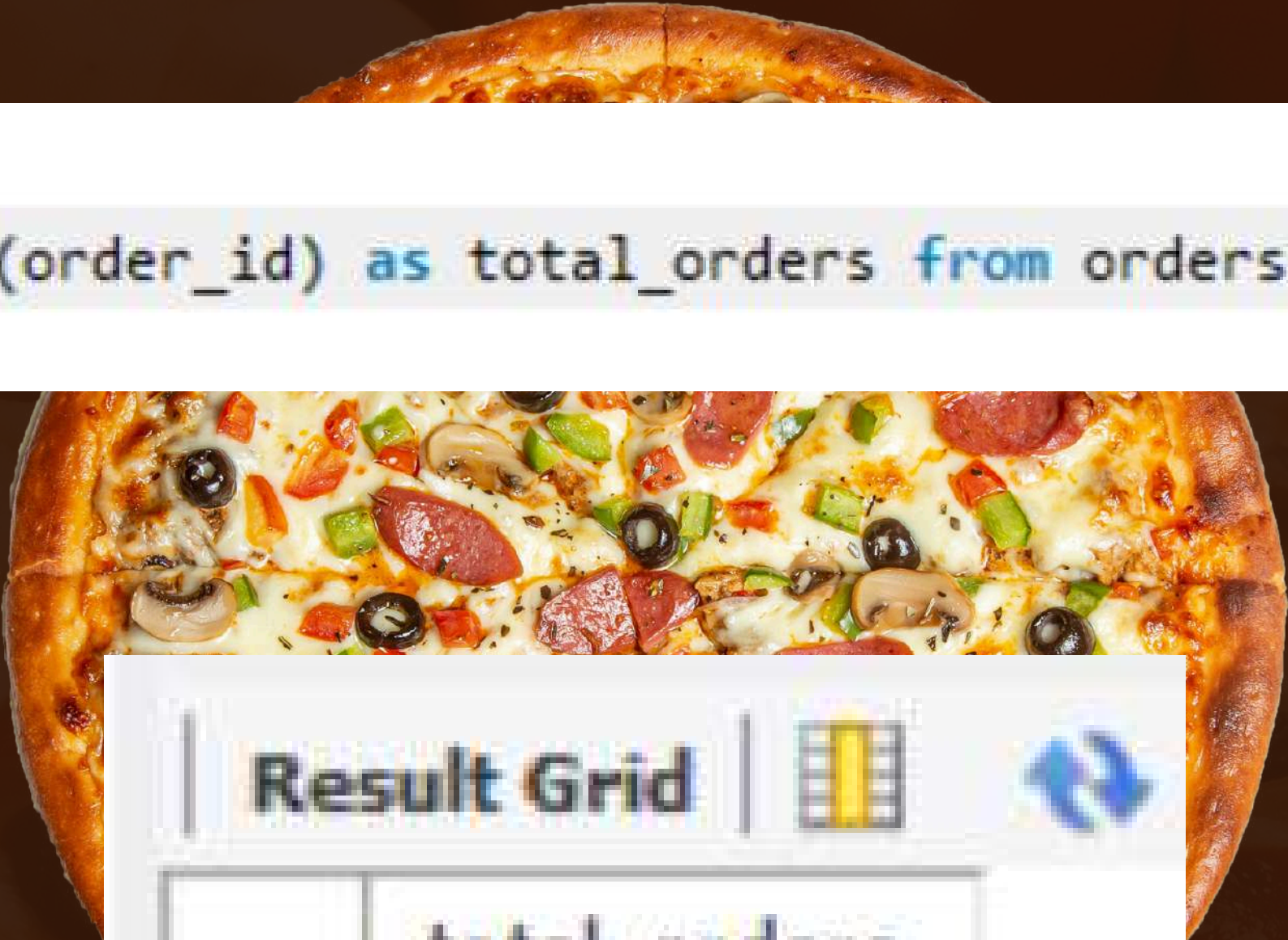
4.pizzas – Contains pizza details (size, price, and type).

SCHEMA



Retrieve the total number of orders placed.

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



Result Grid	
	total_orders
▶	21350



BASIC QUERY 1



Calculate the total revenue generated from pizza sales

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

Result Grid	
	total_sales
▶	817860.05

Identify the highest-priced pizza.

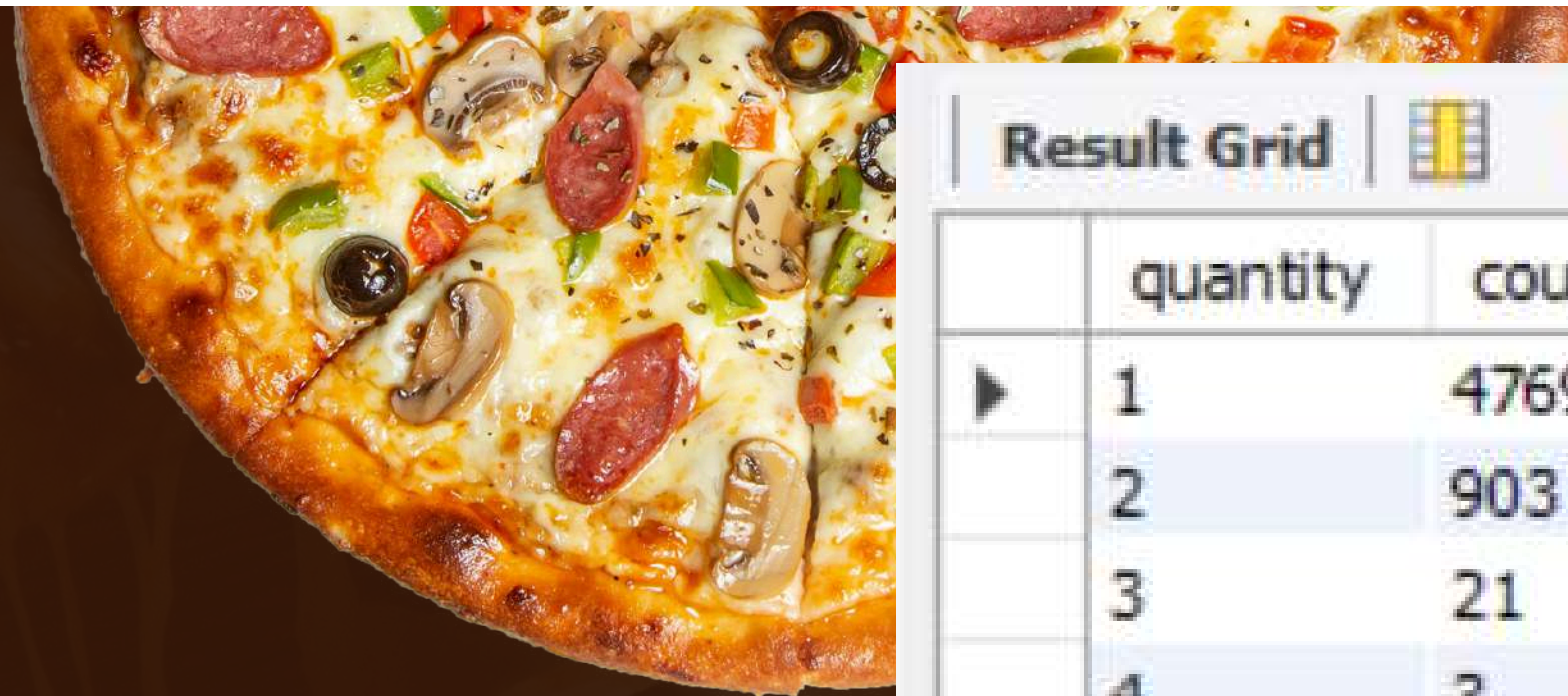
```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC limit 1;
```

	name	price
▶	The Greek Pizza	35.95

BASIC QUERY 3

Identify the most common pizza size ordered.

```
select quantity, count(order_details_id)
from order_details group by quantity;
select pizzas.size, count(order_details.order_details_id) as order_count
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
group by pizzas.size order by order_count desc;
```



Result Grid			Filter Rows:
	quantity	count(order_details_id)	
▶	1	47693	
	2	903	
	3	21	
	4	3	

BASIC QUERY 4


```

pizza_id) AS order_count

```

```

pizza_id = order_details.pizza_id

```

Result Grid			Filter Rows:
	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(order_details.quantity) AS quantity
FROM
    pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
        order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

Result Grid					Filter Rows: <input type="text"/>
	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			

BASIC QUERY 6

Quantity of each pizza category ordered

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON order_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	

INTERMEDIATE QUERY 1

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);
```

	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

INTERMEDIATE QUERY 2

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

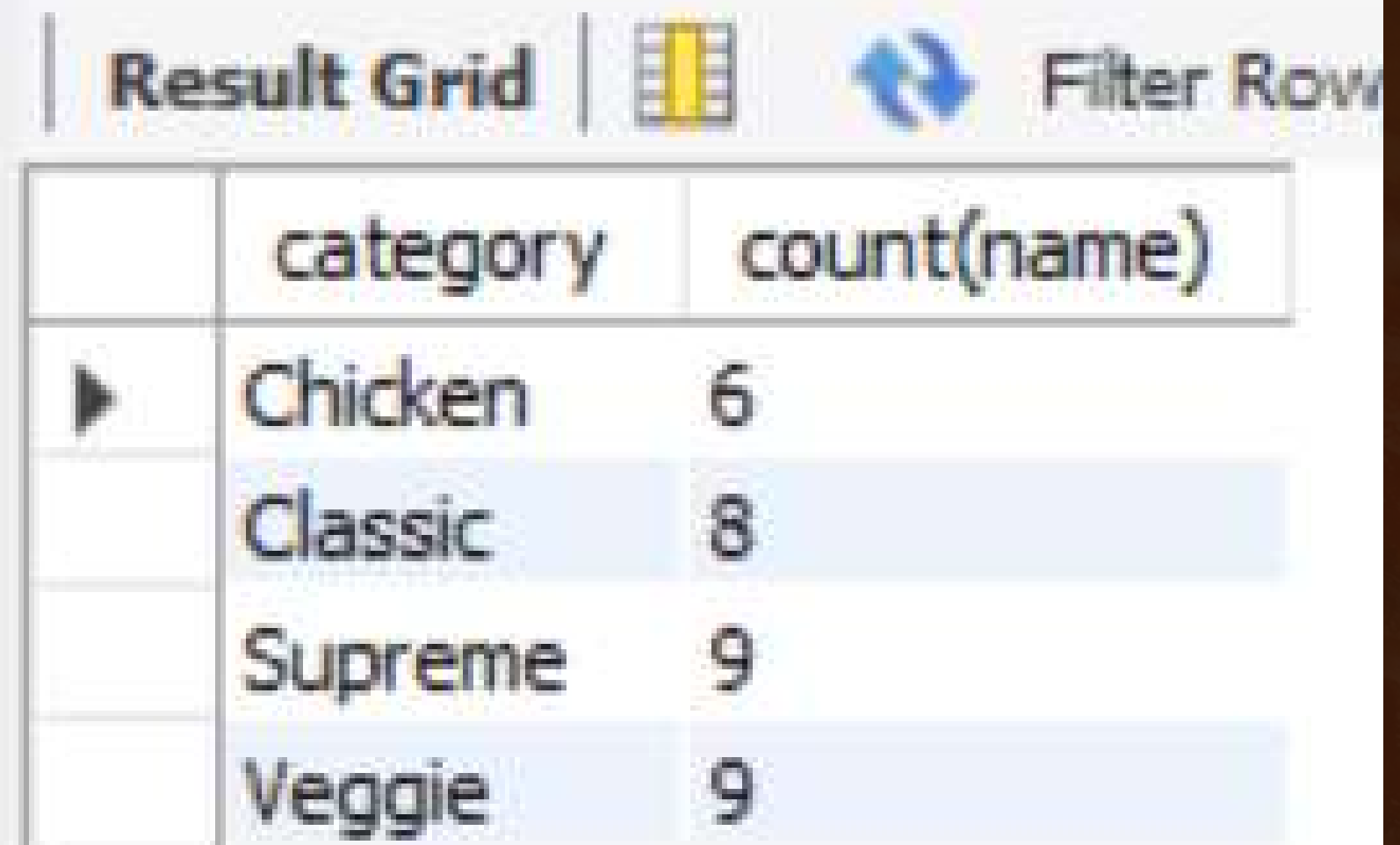
```
SELECT
    ROUND(AVG(quantity), 0) AS avg_pizza_ordered_per_day
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

Result Grid		Filter Rows:
	avg_pizza_ordered_per_day	
▶	138	

INTERMEDIATE QUERY 3

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

INTERMEDIATE QUERY 4

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

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

INTERMEDIATE QUERY 5

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(order_details.quantity * pizzas.price) as revenue  
from order_details join pizzas  
on order_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = order_details.order_id  
group by orders.order_date) as sales;
```

	order_date	cum_revenue
▶	2015-01-01	2713.85000000000004
	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
	2015-01-10	23990
	2015-01-11	25862
	2015-01-12	27781
	2015-01-13	29831
	2015-01-14	32358
	2015-01-15	34343
	2015-01-16	36937

	order_date	cum_revenue
	2015-12-16	790011.8
	2015-12-17	791892.55
	2015-12-18	794778.85000000001
	2015-12-19	797083.05
	2015-12-20	799187.95000000001
	2015-12-21	801288.65
	2015-12-22	803171.6
	2015-12-23	805415.9
	2015-12-24	807553.75
	2015-12-26	809196.8
	2015-12-27	810615.8
	2015-12-28	812253
	2015-12-29	813606.25
	2015-12-30	814944.05
	2015-12-31	817860.05



ADVANCED QUERY 1

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

```
SELECT pizza_types.category,  
       ROUND(SUM(order_details.quantity*pizzas.price) / (SELECT  
         ROUND(SUM(order_details.quantity * pizzas.price),  
           2) AS total_sales  
       FROM  
         order_details  
         JOIN  
         pizzas ON pizzas.pizza_id = order_details.pizza_id) *100,  
       2) AS revenue  
FROM  
  pizza_types  
  JOIN  
  pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
  JOIN  
  order_details ON order_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	

ADVANCED QUERY 2

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((order_details.quantity)*pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_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	

PIZZA SALES ANALYSIS USING SQL QUERIES

**THANK YOU
FOR ATTENTION**

