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PIZZERIA

FRESH & TASTY

SQL INSIGHTS INTO PIZZA SALES

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INTRODUCTION

In this presentation, we will explore pizza sales data using SQL queries at three levels of complexity: Basic, Intermediate, and Advanced. The goal is to extract meaningful insights from the data, ranging from simple counts and totals to more complex patterns like distribution by category, contribution to revenue, and cumulative analysis.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

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Limit to 1000 rows

```
1    -- Retrieve the total number of orders placed.
2
3 •  select count(order_id) as total_orders from orders;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

total_orders
21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```sql
-- 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 | Filter Rows: | Export: | Wrap Cell Content:

total_sales
817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA

```sql
-- 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: | Export: | Wrap Cell Content: | Fetch rows:

name	price
The Greek Pizza	35.95

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IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```sql
-- 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 Rows: | Export: | Wrap Cell Content:

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

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LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

```sql
-- 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: | Export: | Wrap Cell Content: | Fetch 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

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JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED

Limit to 1000 rows

```
1   -- Join the necessary tables to find the total quantity of each pizza category ordered.
2
3   select pizza_types.category,
4   sum(orders_details.quantity) as quantity
5   from pizza_types join pizzas
6   on pizza_types.pizza_type_id = pizzas.pizza_type_id
7   join orders_details
8   on orders_details.pizza_id = pizzas.pizza_id
9   group by pizza_types.category order by quantity desc;
10
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
1   -- Determine the distribution of orders by hour of the day.
2
3   select hour(order_time) as hour, count(order_id) as order_count
4   from orders group by hour(order_time);
5
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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

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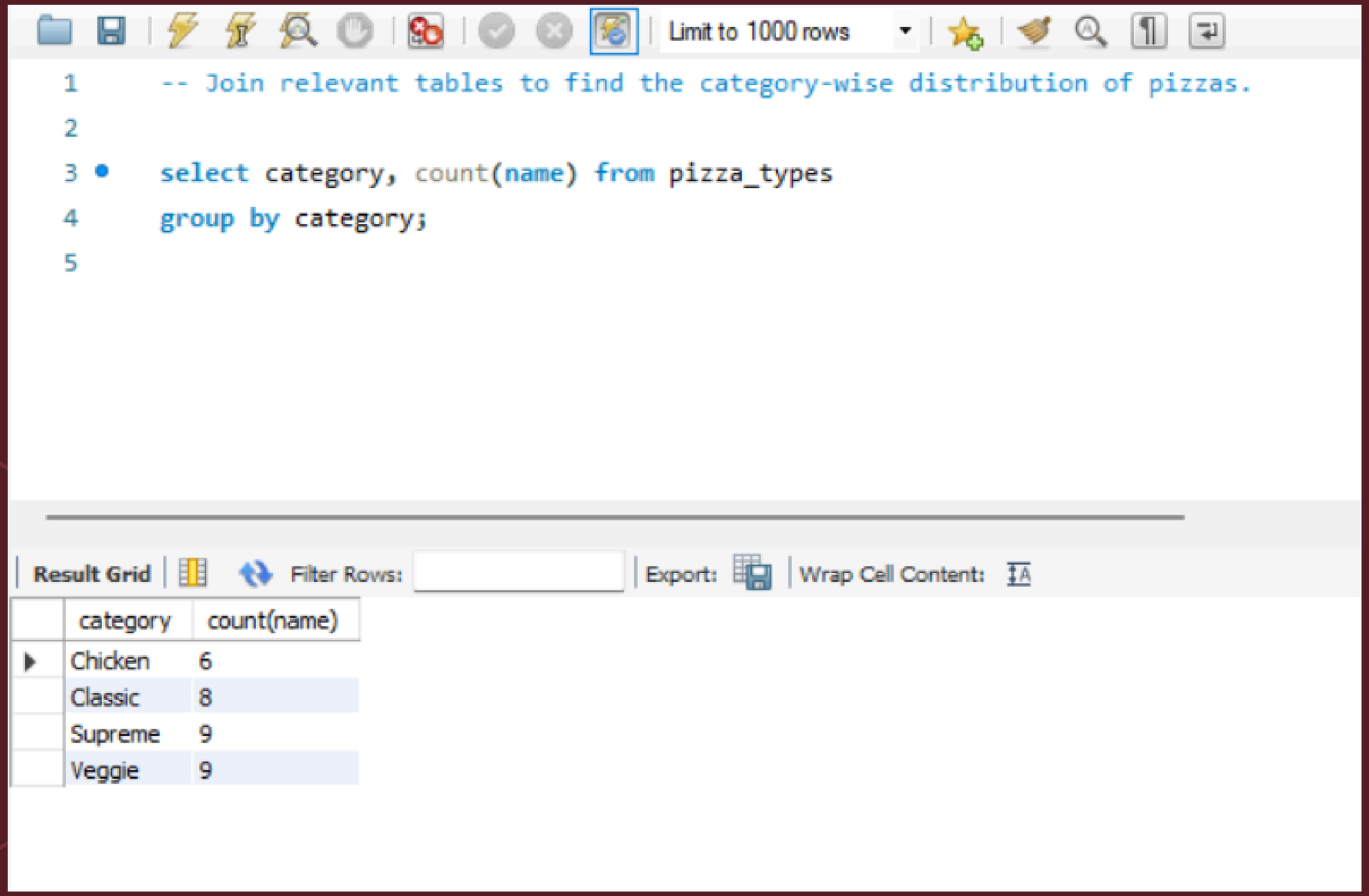
JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS



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GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

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

select round(avg(quantity),0) 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 orders_quantity

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

round(avg(quantity),0)
138

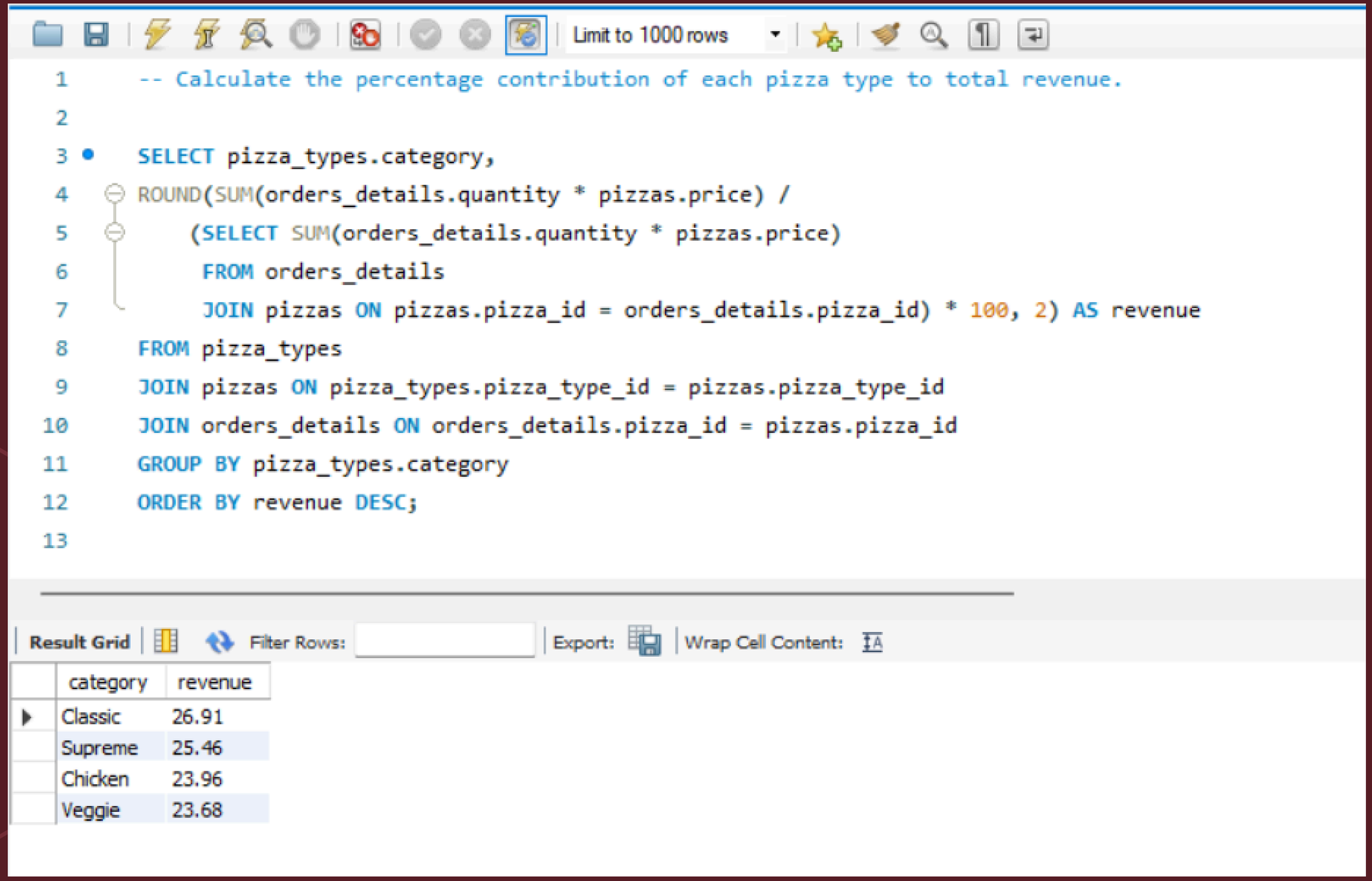
DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
1   -- Determine the top 3 most ordered pizza types based on revenue.
2
3   select pizza_types.name,
4   sum(orders_details.quantity * pizzas.price) as revenue
5   from pizza_types join pizzas
6   on pizzas.pizza_type_id = pizza_types.pizza_type_id
7   join orders_details
8   on orders_details.pizza_id = pizzas.pizza_id
9   group by pizza_types.name order by revenue desc limit 3;
10
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch 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



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THANK YOU