

SQL PROJECT ON PIZZA SALES

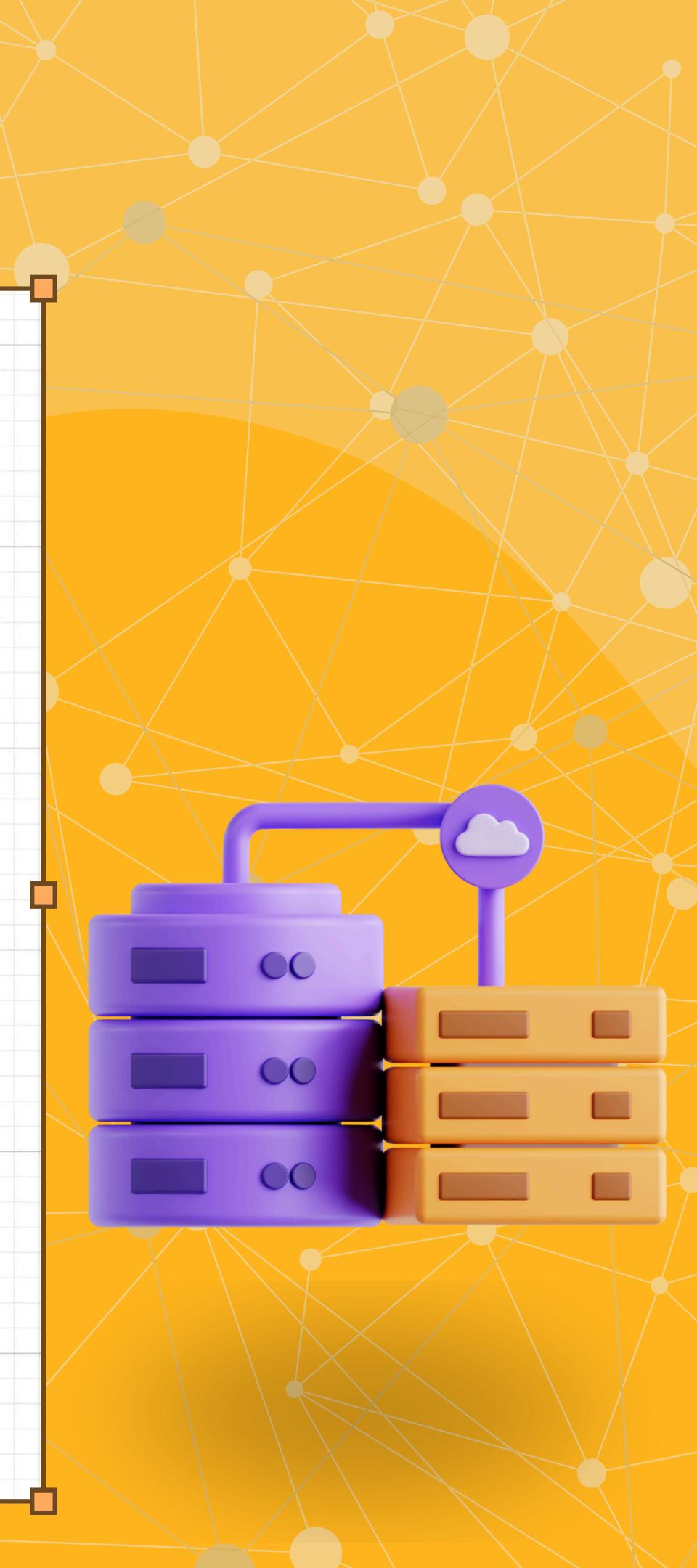
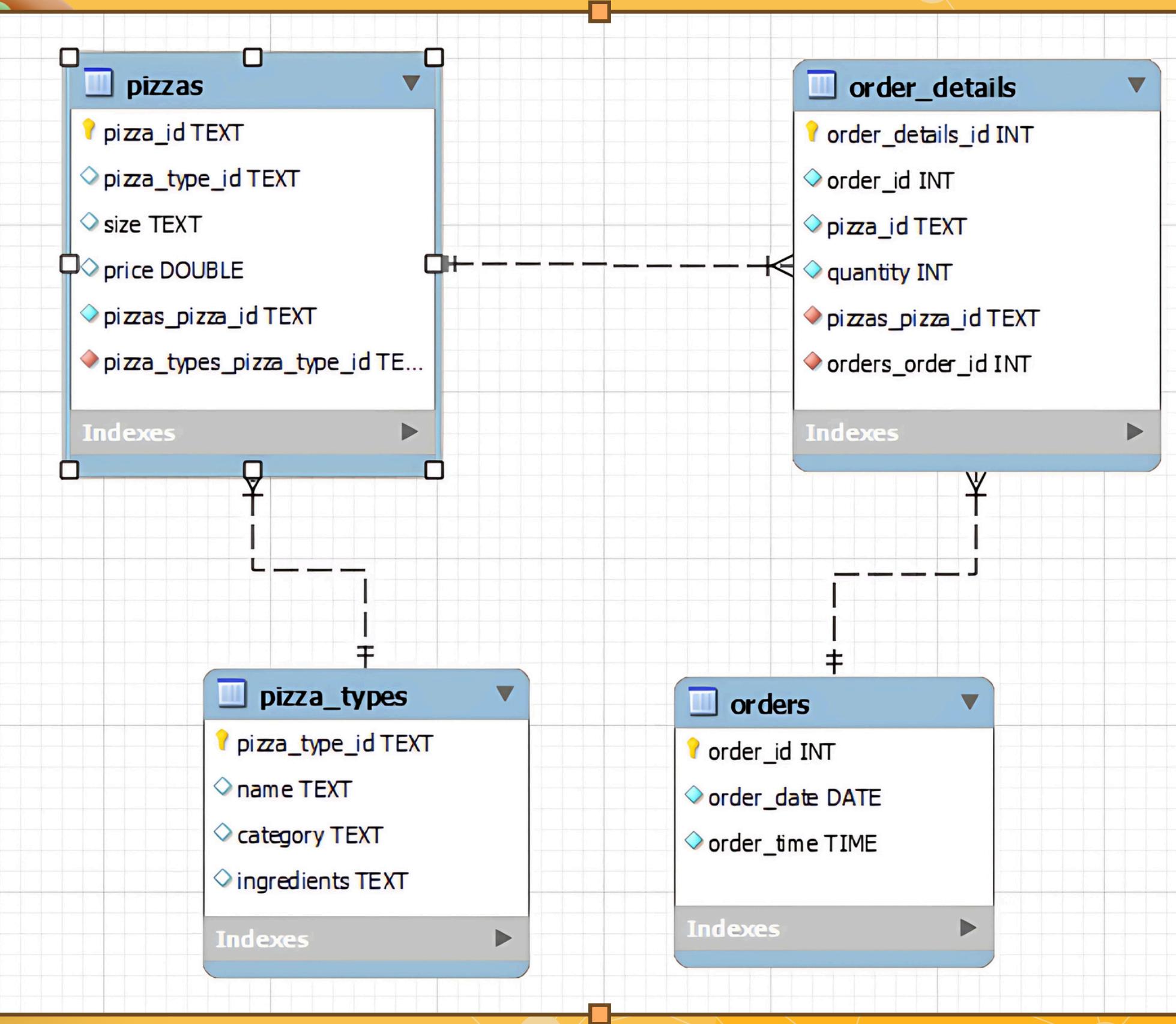


HELLO ALL...

**IN THIS PROJECT I HAVE
SOLVED VARIOUS
QUERIES RELATED TO
PIZZA SALES**



DATABASE SCHEMA



Query 1: Retrieve the total number of orders placed

QUERY

```
SELECT  
    COUNT(order_id) AS Total_order  
FROM  
    orders;
```



RESULT

Result Grid	
	Total_order
▶	21350

Query 2: Calculate the total revenue generated from pizza sales.

QUERY

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



RESULT

Result Grid	
	Total_Revenue
▶	817860.05

Query 3: Identify the highest-priced pizza.

QUERY

```
SELECT pt.name, p.price AS Highest_priced_Pizza
FROM pizza_types AS pt
    JOIN pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
WHERE p.price = (SELECT MAX(price)
    FROM pizzas);
```

RESULT

Name	Highest_priced_pizza
The Greek Pizza	35.95

Query 4: Identify the most common pizza size ordered.

QUERY

```
SELECT
    p.size, COUNT(od.order_details_id) AS Most_common_pizza_size_ordered
FROM
    pizzas AS p
    JOIN
        order_details AS od ON p.pizza_id = od.pizza_id
GROUP BY p.size
ORDER BY Most_common_pizza_size_ordered DESC
LIMIT 1;
```



RESULT

	size	Most_common_pizza_size_ordered
→	L	18526

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

QUERY

```
SELECT
    pt.name, SUM(od.quantity) AS 'Top 5 most ordered pizza'
FROM
    pizza_types AS pt
    JOIN
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details AS od ON p.pizza_id = od.pizza_id
GROUP BY pt.name
ORDER BY count(od.quantity) DESC
LIMIT 5;
```



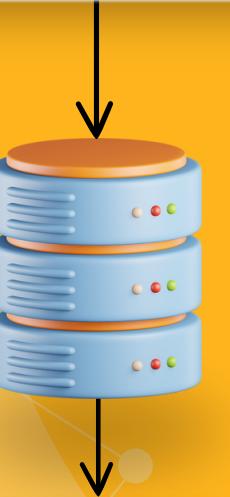
RESULT

name	Top 5 most ordered pizza
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

Query 6: Join the necessary tables to find the total quantity of each pizza category ordered.

QUERY

```
SELECT  
    pt.category, SUM(od.quantity) AS Total_quantity  
FROM  
    pizza_types AS pt  
        JOIN  
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id  
        JOIN  
    order_details AS od ON p.pizza_id = od.pizza_id  
GROUP BY pt.category  
ORDER BY Total_quantity DESC;
```



RESULT

category	Total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Query 7: Determine the distribution of orders by hour of the day.

QUERY

```
SELECT  
    HOUR(order_time) AS Hours_Interval, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY Hours_Interval  
ORDER BY order_count DESC;
```

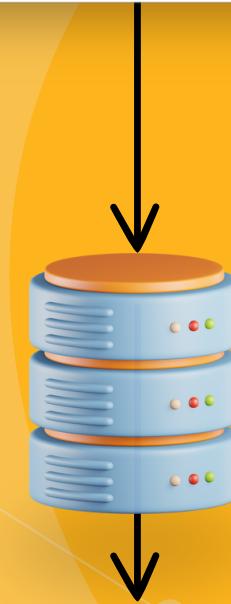
RESULT

Hours_Interval	order_count
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231
21	1198
22	663
23	28
10	8
9	1

Query 8: Join relevant tables to find the category-wise distribution of pizzas.

QUERY

```
SELECT  
    category, COUNT(name) AS 'Count of pizza type'  
FROM  
    pizza_types  
GROUP BY category;
```



RESULT

category	Count of pizza type
Chicken	6
Classic	8
Supreme	9
Veggie	9

Query 9: Group the orders by date and calculate the average number of pizzas ordered per day.

QUERY

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



RESULT

Avg_pizza_ordered_per_day
138

Query 10: Determine the top 3 most ordered pizza types based on revenue.

QUERY

```
SELECT pt.name AS Pizza_type, SUM(p.price * od.quantity) AS Total_revenue
FROM pizza_types AS pt
JOIN pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
JOIN order_details AS od ON p.pizza_id = od.pizza_id
GROUP BY Pizza_type
ORDER BY Total_revenue DESC
LIMIT 3;
```

RESULT



Pizza_type	Total_revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

Query 11: Calculate the percentage contribution of each pizza type to total revenue.

QUERY

```
SELECT
    pt.category,
    ROUND((SUM(p.price * od.quantity) / (SELECT
                                            SUM(p.price * od.quantity)
                                         FROM
                                            pizzas AS p
                                         JOIN
                                            order_details AS od ON p.pizza_id = od.pizza_id) * 100),
        2) AS percentage
FROM
    pizza_types AS pt
    JOIN
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details AS od ON p.pizza_id = od.pizza_id
GROUP BY pt.category;
```



category	percentage
Classic	26.91
Veggie	23.68
Supreme	25.46
Chicken	23.96

Query 12: Analyze the cumulative revenue generated over time.

QUERY

```
select order_date, sum(revenue) over(order by order_date) as cum_revenue
from
(select o.order_date, sum(p.price * od.quantity) as revenue
from orders as o
join order_details as od
on o.order_id = od.order_id
join pizzas as p
on od.pizza_id = p.pizza_id
group by o.order_date) as date_wise_revenue;
```

RESULT

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
2015-12-21	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

Query 13: Determine the top 3 most ordered pizza types based on revenue for each pizza category.

QUERY

```
select *  
from  
  (select *, rank() over(partition by category order by revenue desc) as rn  
   from  
     (select pt.category, pt.name, sum(p.price * od.quantity) as revenue  
      from pizza_types as pt  
      join pizzas as p  
      on pt.pizza_type_id = p.pizza_type_id  
      join order_details as od  
      on p.pizza_id = od.pizza_id  
      group by pt.category, pt.name) as t)  
  where rn <=3;
```

RESULT

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

THANK YOU

“ I appreciate your attention and engagement throughout this presentation. Your feedback is highly valued as it helps me improve and deliver better insights. Please feel free to share your thoughts and suggestions.

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