

PIZZA



PIZZA SALES ANALYSIS

Welcome To Pizza

+250

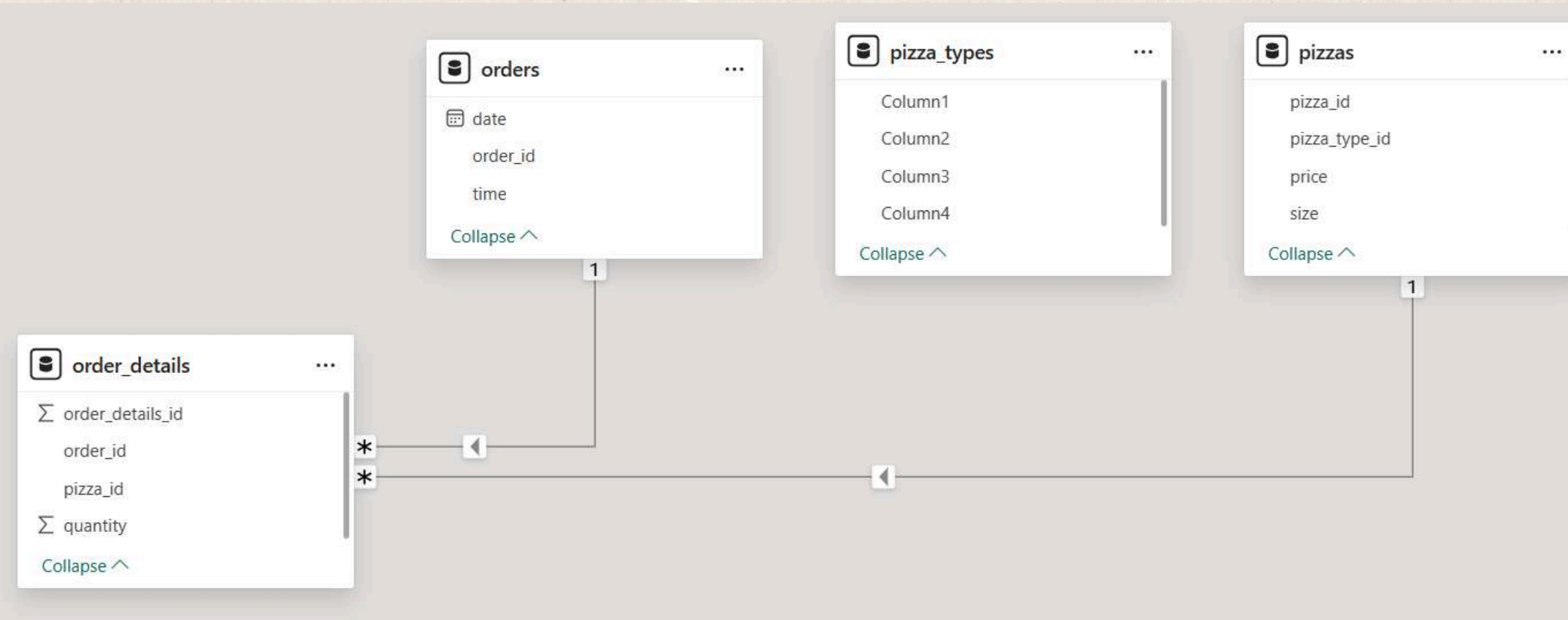
Restaurant

4.9

Good Rate

+100

Pizza menu




```
-- Retrieve the total number of orders placed  
SELECT COUNT(order_id) AS total_orders  
FROM orders;
```

Result Grid	
	total_orders
▶	21350





```
-- 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;
```



Result Grid			Filter Results
	name	price	
▶	The Greek Pizza	35.95	



```
-- Identify the most common pizza size ordered
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS total_orders
FROM
    pizzas
    JOIN
        order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY total_orders DESC
LIMIT 1;
```

Result Grid			 	
	size	total_orders		
▶	L	18526		

-- 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:	
	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.
```

```
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			


```
-- Determine the distribution of orders by hour of the day.
```

```
SELECT
```

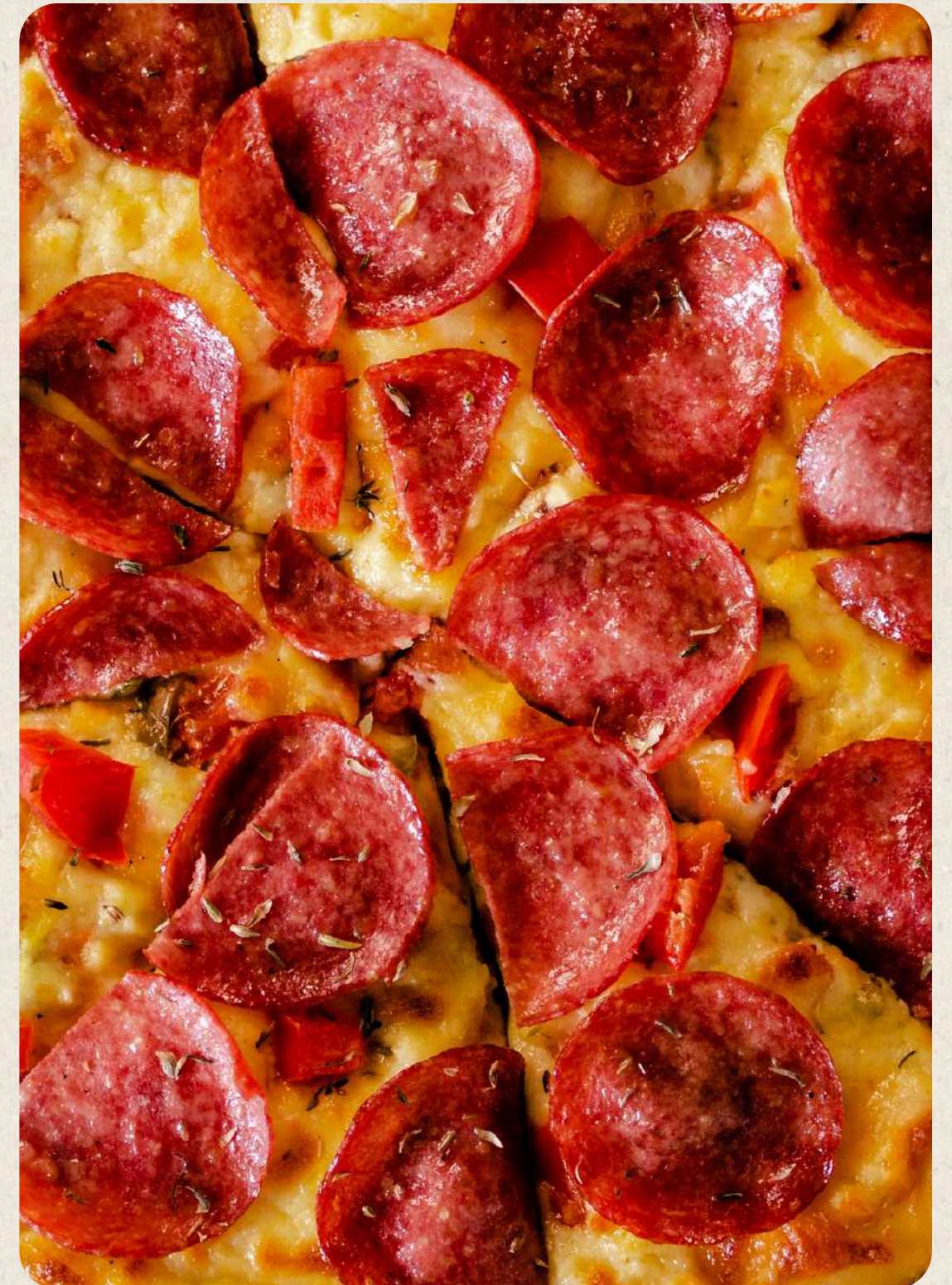
```
    HOUR(order_time) AS order_hour,
```

```
    COUNT(order_id) AS total_orders
```

```
FROM orders
```

```
GROUP BY HOUR(order_time);
```

Result Grid			Filter Rows
	order_hour	total_orders	
▶	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	




```
-- Find category-wise distribution of pizzas.
```

```
SELECT
```

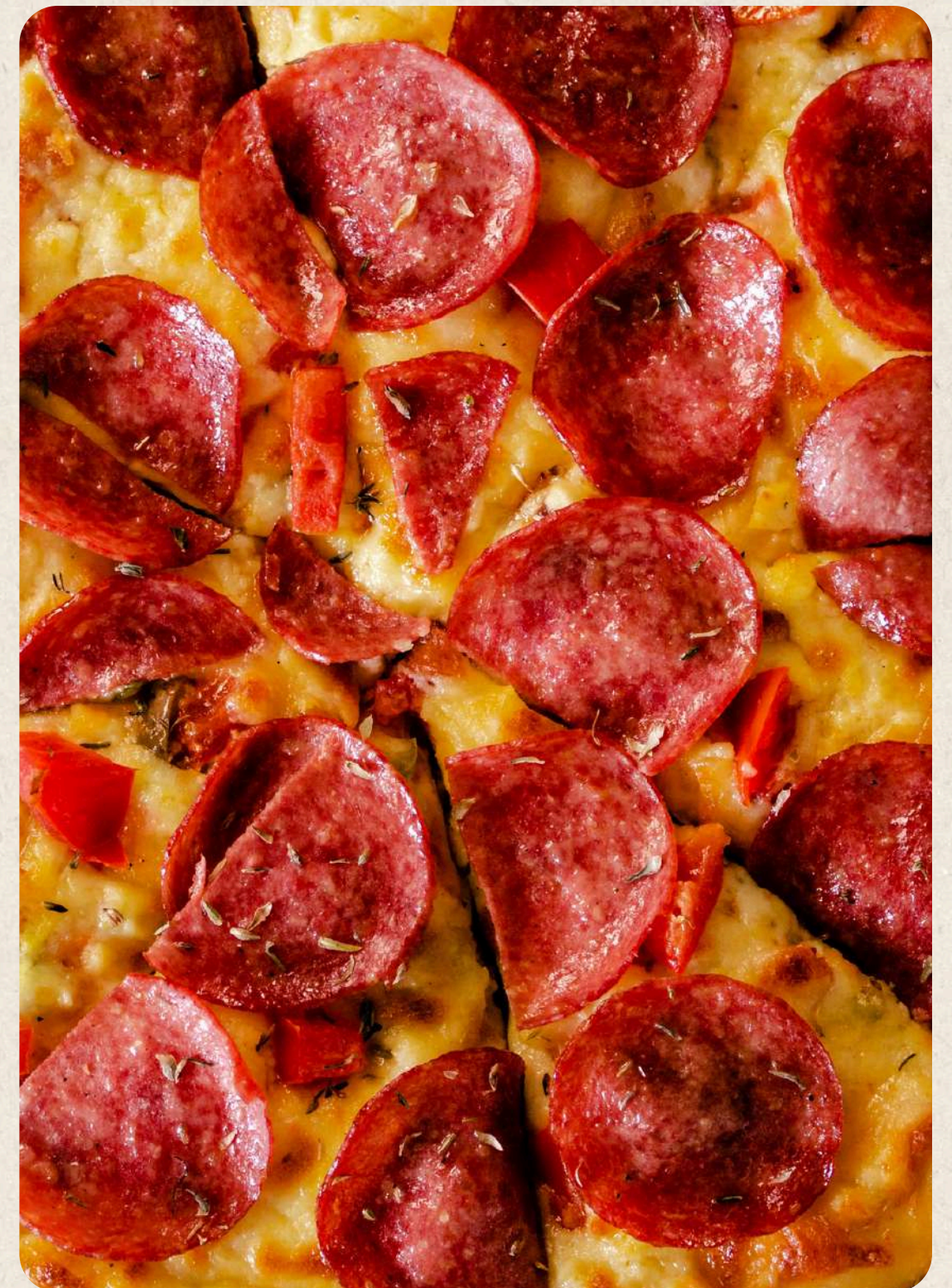
```
    category,
```

```
    COUNT(name) AS total_pizzas
```

```
FROM pizza_types
```

```
GROUP BY category;
```

Result Grid			Filter Row
	category	total_pizzas	
▶	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_pizzas_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	
	avg_pizzas_per_day		
▶	138		



-- 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	



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```
-- pizza category to total revenue.
```

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity * pizzas.price) AS revenue,
    ROUND(
        SUM(order_details.quantity * pizzas.price) * 100 /
        (SELECT SUM(order_details.quantity * pizzas.price)
         FROM order_details
         JOIN pizzas
           ON order_details.pizza_id = pizzas.pizza_id),
        2) AS revenue_percentage
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 Rows:	Export
	category	revenue	revenue_percentage		
▶	Classic	220053.10000000001	26.91		
	Supreme	208196.99999999982	25.46		
	Chicken	195919.5	23.96		
	Veggie	193690.45000000298	23.68		


```
-- 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;
```

Result Grid			Filter Rows:
	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	21526.4	
	2015-01-10	23990.3500000000002	
	2015-01-11	25862.65	
	2015-01-12	27781.7	
	2015-01-13	28881.8000000000008	

-- Top 3 pizzas by revenue within each category

```
SELECT
  category,
  name,
  revenue
FROM (
  SELECT
    pizza_types.category,
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue,
    ROW_NUMBER() OVER (
      PARTITION BY pizza_types.category
      ORDER BY SUM(order_details.quantity * pizzas.price) DESC
    ) AS rn
  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
```

```
    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 ranked_pizzas
WHERE rn <= 3
ORDER BY category, revenue DESC;
```

Result Grid				Filter Rows:	Export:
	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	32265.700000000065		
	Veggie	The Mexicana Pizza	26780.75		
	Veggie	The Five Cheese Pizza	26066.5		

*Thank
you*

**WORKED
ON
MYSQL**