

# A Pizza\_Store Dataset Analysis

Using  MySQL<sup>®</sup>



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# Tables In dataset

Pizzas	Pizza_types	Orders	Order_details
<ul style="list-style-type: none"><li>• pizza_id</li><li>• pizza_type_id</li><li>• size(L&gt;M&gt;S)</li><li>• price</li></ul>	<ul style="list-style-type: none"><li>• pizza_type_id</li><li>• name</li><li>• category</li><li>• ingredients</li></ul>	<ul style="list-style-type: none"><li>• order_id</li><li>• order_date</li><li>• order_time</li></ul>	<ul style="list-style-type: none"><li>• order_details_id</li><li>• order_id</li><li>• pizza_id</li><li>• Quantity</li></ul>

# Q1-Retrieve the total number of orders placed.

## Query

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

## Result


Result Grid			
	COUNT(order_id)		
▶	21350		






## Q2 Calculate the total revenue generated from pizza sales.

### Query



```
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
          0) AS total_revenue
FROM
    order_details
JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

### Result





Result Grid		
	total_revenue	
▶	817860	

# Q3 Determine the distribution of orders by hour of the day.

## Query

```
SELECT
    HOUR(order_time) AS Order_hour,
    SUM(order_id) AS total_orders
FROM
    orders
GROUP BY HOUR(order_time);
```

## Result



Result Grid    Filter Rows: 		
	Order_hour	total_orders
▶	11	13336362
	12	26929470
	13	26615205
	14	14867592
	15	15634879
	16	20551671
	17	24312547
	18	25808745
	19	21634044
	20	17668990
	21	12868673
	22	7269872
	23	330700
	10	73999
	9	19176

## Q4 Join relevant tables to find the category-wise distribution of pizzas.

### Query

```
SELECT
    category, COUNT(name) AS numbers
FROM
    pizza_types
GROUP BY category;
```

### Result

Result Grid |   Filter Rows:

	category	numbers
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



## Q5 Identify the highest-priced pizza.

### Query

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

### Result

Result Grid			Filter Rows:
	name	price	
▶	The Greek Pizza	35.95	



Q6 Identify the most common pizza size ordered.

## Query

**SELECT**

```
COUNT(order_details.order_details_id) AS Viral_pizza,  
pizzas.size
```

**FROM**

```
pizzas
```

**JOIN**

```
order_details ON pizzas.pizza_id = order_details.pizza_id
```

**GROUP BY** pizzas.size

**ORDER BY** viral\_pizza **DESC**

**LIMIT 1**

```
;
```



## Result

Result Grid			Filter Rows:
	Viral_pizza	size	
▶	18526	L	



# Q7 List the top 5 most ordered pizza types along with their quantities.

## Query

```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS total
FROM
    pizzas
    JOIN
    pizza_types 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 total DESC
LIMIT 5;
```

## Result

Result Grid			Filter Rows:
	name	total	
▶	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	



Q8 Join the necessary tables to find the total quantity of each pizza category ordered.

## Query

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

## Result

Result Grid			Filter Rows:
	category	total_quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

Q9 Group the orders by date and calculate the average number of pizzas ordered per day.

## Query

```
SELECT
    ROUND(AVG(total_sale), 0) as average_pizza
FROM
    (SELECT
        orders.order_date,
        COUNT(order_details.quantity) AS Total_sale
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS DATA;
```

## Result

Result Grid		Filter Rows:
	average_pizza	
▶	136	



Q10 Determine the top 3 most ordered pizza types based on revenue.

## Query

```
SELECT
    pizza_types.name AS Pizza_name,
    ROUND(SUM(order_details.quantity * pizzas.price),
          0) AS tr
FROM
    pizzas
    JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
    JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY Pizza_name
ORDER BY tr DESC
LIMIT 3;
```

## Result

Result Grid			Filter Rows:
	Pizza_name	tr	
▶	The Thai Chicken Pizza	43434	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41410	



# Q11 Calculate the percentage contribution of each pizza type to total revenue.

## Query

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

## Result

	category	Something
▶	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

## Q12 Analyze the cumulative revenue generated over time.

### Query

```
select order_date,  
sum(revene_perday) over(order by order_date)as cum_revene  
from  
(select orders.order_date, sum(order_details.quantity * pizzas.price) as reveane_perday  
from pizzas  
join order_details  
on pizzas.pizza_id=order_details.pizza_id  
join orders  
on orders.order_id=order_details.order_id  
group by orders.order_date) AS View_table;
```

Result Grid			Filter Rows:
	order_date	cum_revene	
▶	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	
	2015-01-11	25862.65	
	2015-01-12	27781.7	And so on.....

### Result



## Q13 Determine the top 3 most ordered pizza types based on revenue for each pizza category.

### Query

```
SELECT category, name , reveene_pc
FROM
(SELECT category, name, reveene_pc,
RANK() OVER(PARTITION BY category ORDER BY reveene_pc DESC)
AS rank_id
FROM
(SELECT
    pizza_types.name,
    pizza_types.category,
    SUM(order_details.quantity * pizzas.price) AS Revenue_pc
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name , pizza_types.category) as a) AS B
WHERE rank_id <=3;
```

### Result

Result Grid	Filter Rows:	Export:
category	name	reveene_pc
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



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