

# PIZZA SALES PROJECT USING SQL



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# Problem Statement

This project focuses on analyzing pizza sales data using SQL operations on multiple tables, including pizzas, orders, order\_details, and pizza\_types. It offers hands-on experience with key data analytics concepts such as filtering, aggregation, joins, and subqueries. The goal is to extract insights, including popular pizzas, order patterns, and sales trends, to support data-driven business decisions. Through this project, I have developed a deeper understanding of SQL, enhancing my ability to manipulate, analyze, and interpret data efficiently, thereby strengthening my overall data analytics skills.

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# TABLES USED

- pizzas
- orders
- order\_details
- pizza\_types

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# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



```
USE pizzahut;  
SELECT  
COUNT(order_id) AS  
total_orders FROM  
orders;
```

	total_orders
▶	21350

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# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

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

total_revenue
817860.05

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# IDENTIFY THE HIGHEST-PRICED PIZZA..



```
SELECT MAX(price)  
AS max_price  
FROM pizzas;
```

	max_price
▶	35.95

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# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.



```
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 LIMIT 1;
```

	size	order_count
▶	L	18526

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

```
SELECT pizza_types.name,  
       COUNT(order_details.quantity) AS  
order_quantity  
  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.name  
 ORDER BY order_quantity DESC LIMIT 5;
```

	name	order_quantity
▶	The Classic Deluxe Pizza	2416
	The Barbecue Chicken Pizza	2372
	The Hawaiian Pizza	2370
	The Pepperoni Pizza	2369
	The Thai Chicken Pizza	2315

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

```
SELECT pizza_types.category  
,COUNT(order_details.quantity) AS cat_qty  
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  
ORDER BY cat_qty;
```

	category	cat_qty
	Chicken	10815
	Veggie	11449
	Supreme	11777
	Classic	14579

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# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.(NO OF ORDERS IN AN HOUR)

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

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.



```
SELECT category ,  
COUNT(pizza_type_id)  
AS cat_count  
FROM pizza_types  
GROUP BY category;
```

category	cat_count
Chicken	6
Classic	8
Supreme	9
Veggie	9

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



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

ROUND(AVG(order\_quantity),0)  
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# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.



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

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

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# 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_revenue  
FROM order_details JOIN pizzas ON pizzas.pizza_id =  
order_details.pizza_id)* 100,2) AS revenue  
FROM order_details JOIN pizzas  
ON order_details.pizza_id = pizzas.pizza_id  
JOIN pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
GROUP BY pizza_types.category  
ORDER BY revenue DESC;
```

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category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

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# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



```
SELECT order_date,  
SUM(revenue) OVER (ORDER BY order_date) AS cum_rev  
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_rev
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

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# 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;
```

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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	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

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# THANK YOU!

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