



PIZZA SALES

# SQL PROJECT

Hi, I'm Shailendra. This is my first SQL project where I gained insights using SQL queries on a MySQL database. Through this project, I learned a lot about writing queries, subqueries, and joins, which helped me become more familiar and confident with SQL.

In this project, I analyzed pizza sales data using SQL. The dataset included various pizza categories, pizza names, and different sizes. I explored and extracted key revenue-related insights using SQL queries.

-- Calculate the total revenue generated from pizza sales.

```
SELECT  
    Round(SUM(order_details.quantity * pizzas.price),2) AS Revenue  
FROM  
    order_details  
        JOIN  
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

Revenue
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;
```

	name	price
▶	The Greek Pizza	35.95



-- Identify the most common pizza size ordered.

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

	size	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
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

	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





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

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

	category	quantity
▶	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050



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

```
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



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

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

	category	COUNT(name)
▶	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 Ang_Pizza_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;
```

	Ang_Pizza_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
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.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



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

```
SELECT
    pizza_types.category,
    round((SUM(order_details.quantity * pizzas.price) / (SELECT
        SUM(order_details.quantity * pizzas.price)
    FROM
        order_details
        JOIN
            pizzas ON order_details.pizza_id = pizzas.pizza_id)) * 100,0) AS Rvenue_Percentage
FROM
    order_details
        JOIN
            pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
            pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.category;
```

	category	Rvenue_Percentage
▶	Classic	27
	Veggie	24
	Supreme	25
	Chicken	24



-- Analyze the cumulative revenue generated over time.

```
select order_date, round (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 order_details.order_id = orders.order_id
  group by orders.order_Date) as sales;
```

order_date	Cum_Revenue
2015-01-01	2714
2015-01-02	5446
2015-01-03	8108
2015-01-04	9864
2015-01-05	11930
2015-01-06	14358
2015-01-07	16561
2015-01-08	19399
2015-01-09	21526
2015-01-10	23990
2015-01-11	25863
2015-01-12	27782
2015-01-13	29831
2015-01-14	32359
2015-01-15	34344
2015-01-16	36938
2015-01-17	39002



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

```
select category, name, round(revenue,1) 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
    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,pizza_types.name) as a) as b
where rn <=3 ;
```

	category	name	round(revenue,1)
▶	Chicken	The Thai Chicken Pizza	43434.2
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.2
	Classic	The Pepperoni Pizza	30161.8
	Supreme	The Spicy Italian Pizza	34831.2
	Supreme	The Italian Supreme Pizza	33476.8
	Supreme	The Sicilian Pizza	30940.5
	Veggie	The Four Cheese Pizza	32265.7
	Veggie	The Mexicana Pizza	26780.8
	Veggie	The Five Cheese Pizza	26066.5





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# THANK YOU!

Thank you for taking the time to review my SQL project.  
Please share your feedback on how I can enhance my SQL  
skills and learn from my mistakes.

