



SQL Data Analyst Project


Hello My Name Is Rohan Ramesh Mandhare . In this SQL project i have utilize the SQL quire to solve questions which related to pizza sales.

The Goal of this Project is to analyze pizza sales data using SQL to uncover insights into sales trends, customer preferences,and operational performace

Retrieve the total number of orders placed

Input

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

Result Grid 	
	total_order
▶	21350

Calculate the total revenue generated from pizza sales.

INPUT

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

Result Grid	
	total_revenue
▶	817860.05

Identify the highest-priced pizza.

```
select pizza_types.name, pizzas.price as highest_price_pizza
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 Rows:
	name	highest_price_pizza	
▶	The Greek Pizza	35.95	

Identify the most common pizza size ordered.

```
select quantity, count(order_details_id)
from order_details group by quantity order by quantity asc limit 1;
```

Result Grid			Filter Rows:
	quantity	count(order_details_id)	
▶	1	47693	

Identify the most common pizza size ordered.

```
SELECT
    pizzas.size,
    COUNT(order_details.order_id) AS most_common_size
FROM
    pizzas
    JOIN
        order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY size
ORDER BY most_common_size DESC
LIMIT 2;
```

Result Grid			Filter Rows:
	size	most_common_size	
▶	L	18526	
	M	15385	

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

```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantity
FROM
    pizzas
    JOIN
    pizza_types 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.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	

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

Result Grid		
	hour	order_count
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642

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

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

Result Grid			Filter Rows
	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) 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 Rows:
	round(avg(quantity),0)	
▶	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 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 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	

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

```
• SELECT
    pizza_types.category,
    (SUM(order_details.quantity * pizzas.price) / (SELECT
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:
category	revenue
Classic	26.905960255669903
Supreme	25.45631126009884
Chicken	23.955137556847493
Veggie	23.682590927384783



thank you

