



SQL PROJECT ON PIZZA SALES

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HELLO!

My name is Rahul Raj. In this project, I have utilized SQL queries to analyze and solve various questions related to pizza sales. Through these queries, I targeted to uncover insights and trends that can enhance our understanding of sales performance and customer preferences. ✨

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Schema Diagram



orders		customers	
id (PK)		id (PK)	
order_date		name	
customer_id (FK)		email	

|

order_items	
id (PK)	
order_id (FK)	
pizza_id (FK)	
quantity	

|



pizzas	
id (PK)	
name	
price	
size	
category_id (FK)	

|

pizza_categories	
id (PK)	
name	

Retrieve the total number of orders placed.

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

Result Grid				F
	count(order_id)			
▶	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
▶	356723.85



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 5;
```

Result Grid			Filter Rows:
	name	price	
▶	The Greek Pizza	35.95	
	The Greek Pizza	25.5	
	The Brie Carre Pizza	23.65	
	The Italian Vegetables Pizza	21	
	The Barbecue Chicken Pizza	20.75	

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;
```

Result Grid				Filter Rows
	size	order_count		
▶	L	7893		
	M	6827		
	S	6507		
	XL	115		
	XXL	8		

Result 4

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;
```

name	quantity
The Barbecue Chicken Pizza	2329
The California Chicken Pizza	1721
The Big Meat Pizza	1695
The Classic Deluxe Pizza	1506
The Hawaiian Pizza	1166

Result 4 ×



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 Rows		
	category	quantity
	Classic	6975
	Chicken	6238
	Veggie	4357
	Supreme	4134

Determine the distribution of orders by hour of the day.

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

Result Grid				 Filter Rows
	HOUR(time)	order_count		
▶	11	1231		
	12	2520		
	13	2455		
	14	1472		
	15	1468		



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) as avg_pizza_ordered_per_day
FROM
    (SELECT
        orders.date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.date) AS order_quantity;
```

Result Grid			 Filter Rows:
	avg_pizza_ordered_per_day		
▶	61		

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

```
2 • SELECT
3     pizza_types.name,
4     SUM(order_details.quantity * pizzas.price) AS revenue
5 FROM
6     pizza_types
7     JOIN
8     pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
9     JOIN
10    order_details ON order_details.pizza_id = pizzas.pizza_id
11 GROUP BY pizza_types.name
12 ORDER BY revenue DESC
13 LIMIT 3;
```

Result Grid





Filter Rows:

name	revenue
The Barbecue Chicken Pizza	41230.75
The California Chicken Pizza	30102.75
The Classic Deluxe Pizza	23548

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_sales
    FROM
        order_details
        JOIN
        pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
        2) 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.category
ORDER BY revenue DESC;
```

Result Grid |   Filter Rows

	category	revenue
▶	Chicken	30.8
	Classic	28.06
	Supreme	20.63
	Veggie	20.51

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;
```

Result Grid			Filter Rows:	Exp
	name	revenue		
▶	The Barbecue Chicken Pizza	41230.75		
	The California Chicken Pizza	30102.75		
	The Chicken Alfredo Pizza	11606		
	The Classic Deluxe Pizza	23548		
	The Big Meat Pizza	20340		
	The Hawaiian Pizza	15546.5		
	The Italian Supreme Pizza	14359.75		
	The Calabrese Pizza	12463.5		
	The Brie Carre Pizza	9057.9499999999937		
	The Four Cheese Pizza	17526.550000000232		
	The Five Cheese Pizza	15299.5		
	The Mexicana Pizza	9428.5		