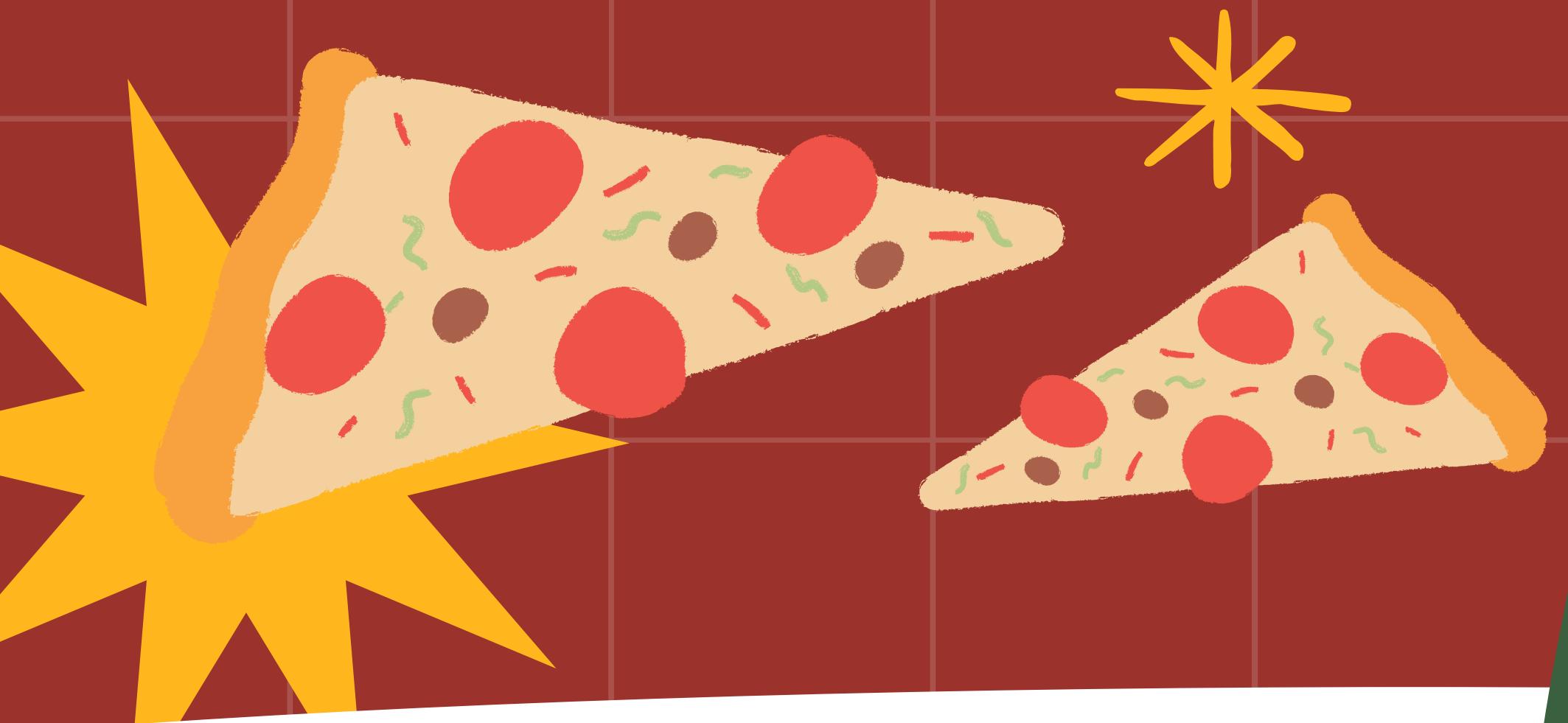


PIZZA SALES PROJECT





HELLO

Hello, I'm Vijay! In my recent project, I utilized SQL queries to solve various questions related to pizza sales. By analyzing sales data, I was able to uncover valuable insights and drive smarter business decisions.



Let's start our adventure in the world of pizza!



QUESTIONS

Basic Question:

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.

Let's start our adventure in the world of pizza!

QUESTIONS

Intermediate Questions:

- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.



Let's start our adventure in the world of pizza!



QUESTIONS

Advanced Questions:

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

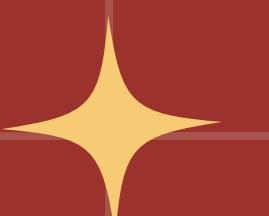
Analyze the cumulative revenue generated over time.

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

Q1. Retrieve the total number of orders placed.

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

total_orders
21350



Q2. Calculate the total revenue generated from pizza sales.

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

total_sales
817860.05



Q3. Identify the highest-priced pizza.

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

name	price
The Greek Pizza	35.95



Q4. Identify the most common pizza size ordered.

```
SELECT  
    COUNT(o.order_details_id)  
    order_count, p.size  
FROM  
    pizzas p  
    JOIN  
    order_details o ON p.pizza_id =  
        o.pizza_id  
GROUP BY p.size  
ORDER BY order_count DESC;
```

order_count	size
18526	L
15385	M
14137	S
544	XL
28	XXL



Q5.List the top 5 most ordered pizza types along with their quantities.

```
select pt.name , sum(od.quantity)
no_qty_orders
from pizza_types pt
join pizzas p
on p.pizza_type_id =
pt.pizza_type_id
join order_details od
on od.pizza_id = p.pizza_id
group by pt.name
order by no_qty_orders desc
limit 5 ;
```

name	no_qty_orders
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371



Q6.Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT  
    pt.category, SUM(od.quantity)  
    total_Quantity  
FROM  
    pizza_types pt  
    JOIN  
    pizzas p ON p.pizza_type_id =  
    pt.pizza_type_id  
    JOIN  
    order_details od ON od.pizza_id =  
    p.pizza_id  
GROUP BY pt.category
```

category	total_Quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

Q7.Determine the distribution of orders by hour of the day.



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



hour	orders
9	1
10	8
11	1231
12	2520
13	2455
.....

Q8.Join relevant tables to find the category-wise distribution of pizzas.

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

category	name
Chicken	6
Classic	8
Supreme	9
Veggie	9



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

```
SELECT  
    ROUND(AVG(quantity), 2)  
FROM  
(SELECT  
    o.order_date, SUM(od.quantity)  
quantity  
FROM  
    order_details od  
JOIN orders o ON od.order_id =  
o.order_id  
GROUP BY o.order_date) AS  
order_quantity;
```

avg_quantity
138.47



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

```
SELECT
    pt.name, SUM((od.quantity *
p.price)) AS revenue
FROM
    pizza_types pt
        JOIN
    pizzas p ON p.pizza_type_id =
pt.pizza_type_id
        JOIN
    order_details od ON od.pizza_id =
p.pizza_id
GROUP BY pt.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



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

```
SELECT  
    pt.category,  
    ROUND((SUM(p.price * od.quantity) / (SELECT  
        ROUND(SUM(od.quantity * p.price), 2) AS sales  
    FROM  
        order_details od  
        JOIN  
        pizzas p ON p.pizza_id = od.pizza_id)) * 100,  
    2) AS revenue  
FROM  
    pizza_types pt  
    JOIN  
    pizzas p ON p.pizza_type_id = pt.pizza_type_id  
    JOIN  
    order_details od ON od.pizza_id = p.pizza_id  
GROUP BY pt.category  
ORDER BY revenue DESC
```

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68



Q12.Analyze the cumulative revenue generated over time.

```
select order_date, revenue, sum(revenue) over(order by  
order_date) as cum_revenue  
from  
(select o.order_date , round(SUM(od.quantity *  
p.price),2) AS revenue  
FROM order_details od  
JOIN pizzas p  
ON p.pizza_id = od.pizza_id  
join orders o  
on od.order_id = o.order_id  
group by o.order_date ) as sales;
```

order_date	revenue	cum_revenue
2015-01-01	2713.85	2713.85
2015-01-02	2731.9	5445.75
2015-01-03	2662.4	8108.15
2015-01-04	1755.45	9863.6
.....



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

```
select category, name , revenue
from
(select category, name , revenue ,
rank() over(partition by category order by revenue desc)
as rn
from
(select pt.category, pt.name, sum(od.quantity * p.price)
as revenue
from order_details od
join pizzas p
on p.pizza_id = od.pizza_id
join pizza_types pt
on pt.pizza_type_id = p.pizza_type_id
group by pt.category, pt.name) as a) as b
where rn <=3;
```

category	name	revenue
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
.....



**MAKE SURE YOU HAVE
ALL INGREDIENTS
BEFORE STARTING THE
PIZZA MAKING PROCESS.**

VARIATIONS



Pizza Margherita



Pepperoni Pizza



BBQ Chicken Pizza



Hawaiian Pizza



THANK YOU

“Have fun making your own pizza
and enjoy every bite”