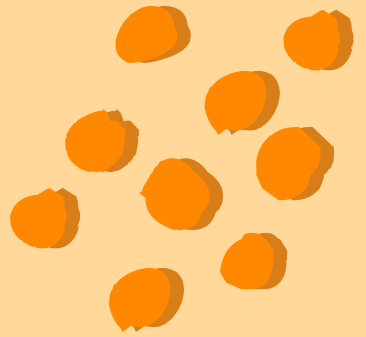


# PIZZA SALES ANALYSIS





# Hello!

I'm Soumnik Mohapatra, and in this project, I used SQL queries to answer different questions about pizza sales. The goal was to find useful insights from the data by writing and running SQL queries.

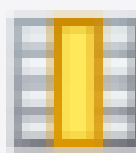




# Retrieve the total number of orders placed.

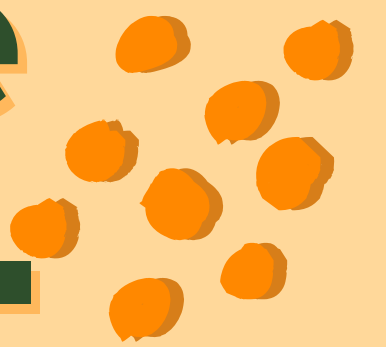


```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    pizzahut.order;
```

Result Grid   	
	total_orders
▶	21350

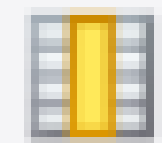


# Calculate the total revenue generated from pizza sales.



```
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

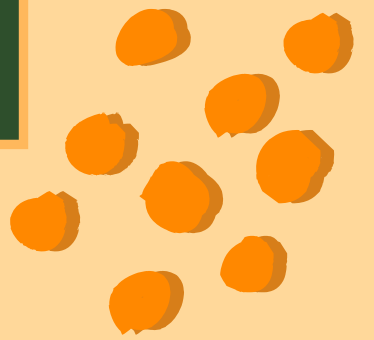


	total_sales
	817860.05





# Identify the highest-priced pizza.



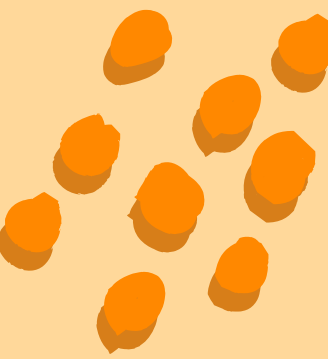
```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Result Grid			Filter Rows
	name	price	
▶	The Greek Pizza	35.95	





# Identify the most common pizza size ordered.

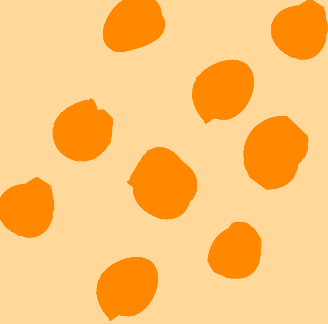


```
select quantity, count(order_details_id)
from pizzahut.order_details group by quantity;

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





# 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 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;
```

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 `order`
GROUP BY HOUR(order_time);
```

hour	order_count
9	1
10	8
23	28
22	663
21	1198
11	1231
15	1468
14	1472
20	1642
16	1920
19	2009
17	2336
18	2399
13	2455
12	2520





# 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(order_quantity.total_quantity), 0) AS avg_quantity
FROM
    (SELECT
        `order`.order_date,
        SUM(order_details.quantity) AS total_quantity
    FROM
        `order`
    JOIN order_details ON `order`.order_id = order_details.order_id
    GROUP BY `order`.order_date) AS order_quantity;
```

Result Grid	
	avg_quantity
	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 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 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,
    (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 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;
```

category	revenue
Classic	26.90596025566967
Supreme	25.45631126009862
Chicken	23.955137556847287
Veggie	23.682590927384577



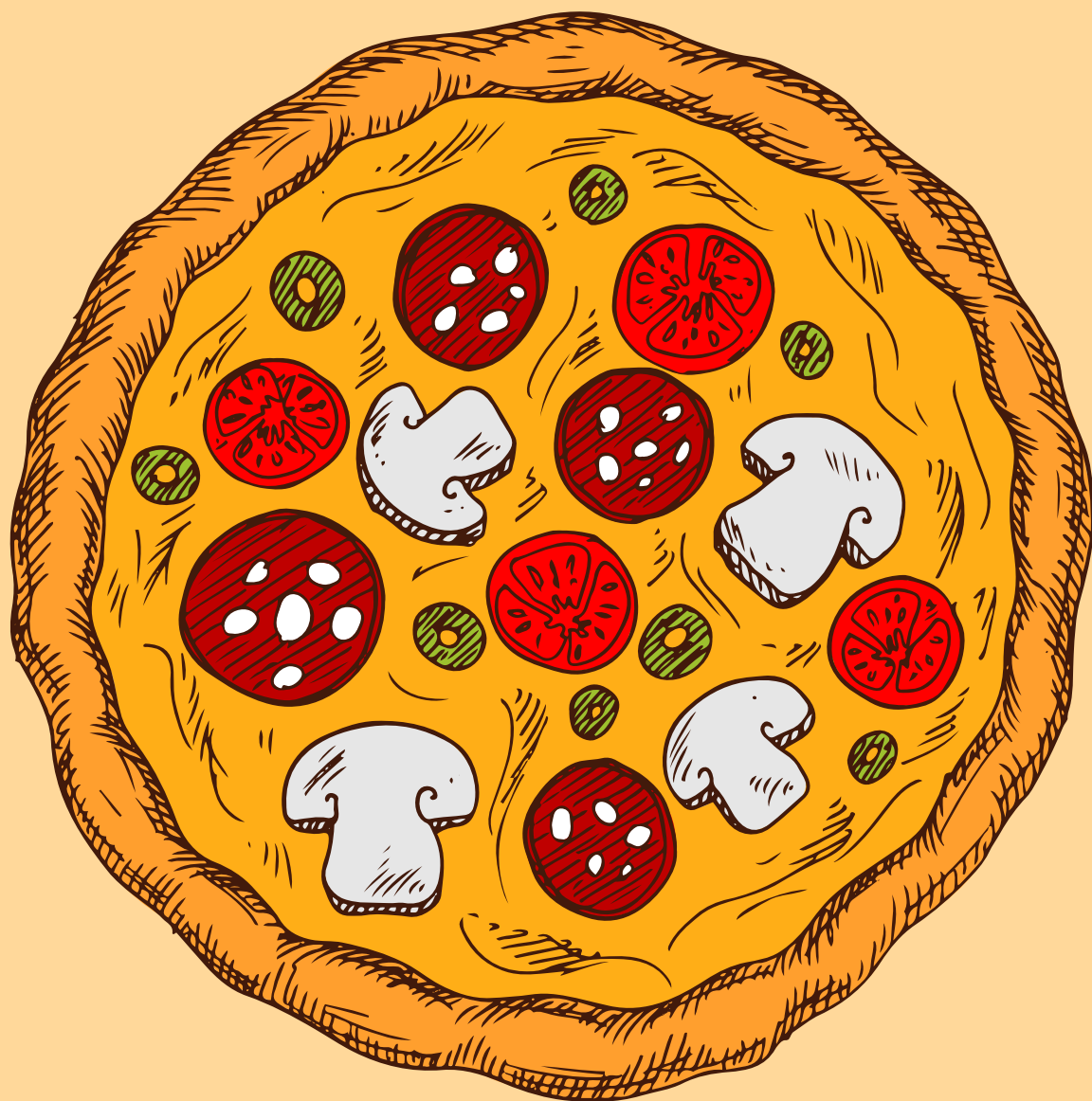
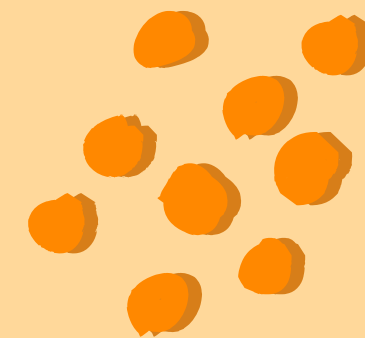


# Analyze the cumulative revenue generated over time.

```
select order_date,  
sum(revenue) over (order by order_date) as cum_revenue  
from  
(SELECT `order`.order_date,  
        SUM(order_details.quantity * pizzas.price) AS revenue  
FROM order_details  
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id  
JOIN `order` ON `order`.order_id = order_details.order_id  
GROUP BY `order`.order_date) as sales;
```

order_date	cum_revenue
2015-01-01	2713.850000000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.4





**THANK  
YOU**

