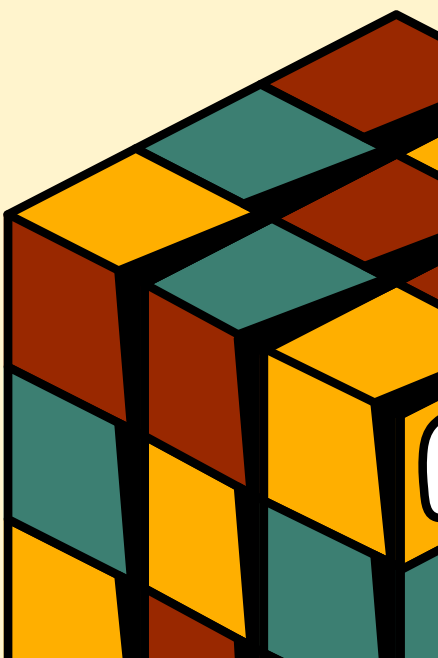
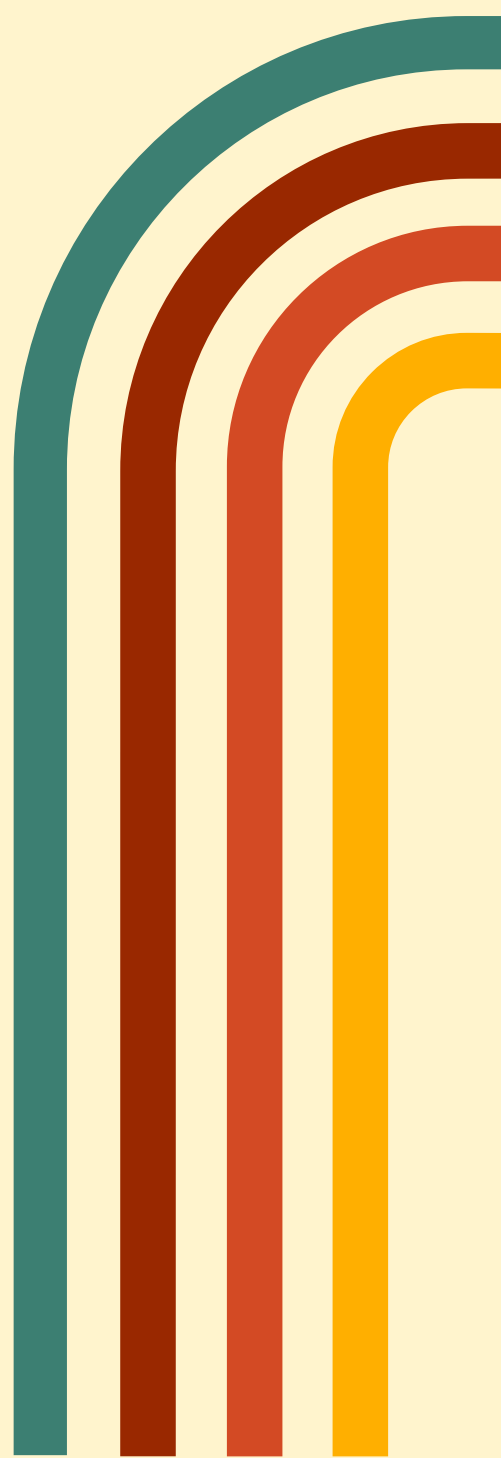


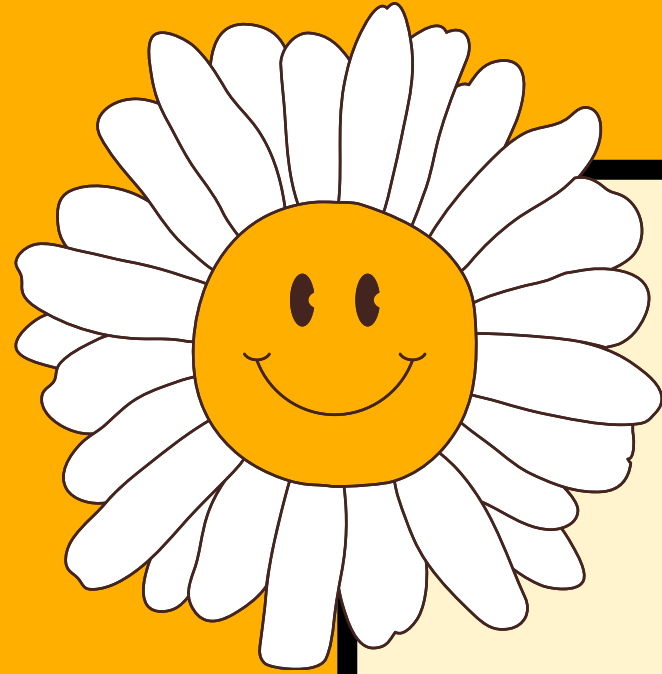
Prepared by Lokesh

SQL PORTFOLIO PROJECT

ENHANCING PRODUCT SALES STRATEGY

25 JULY 2024



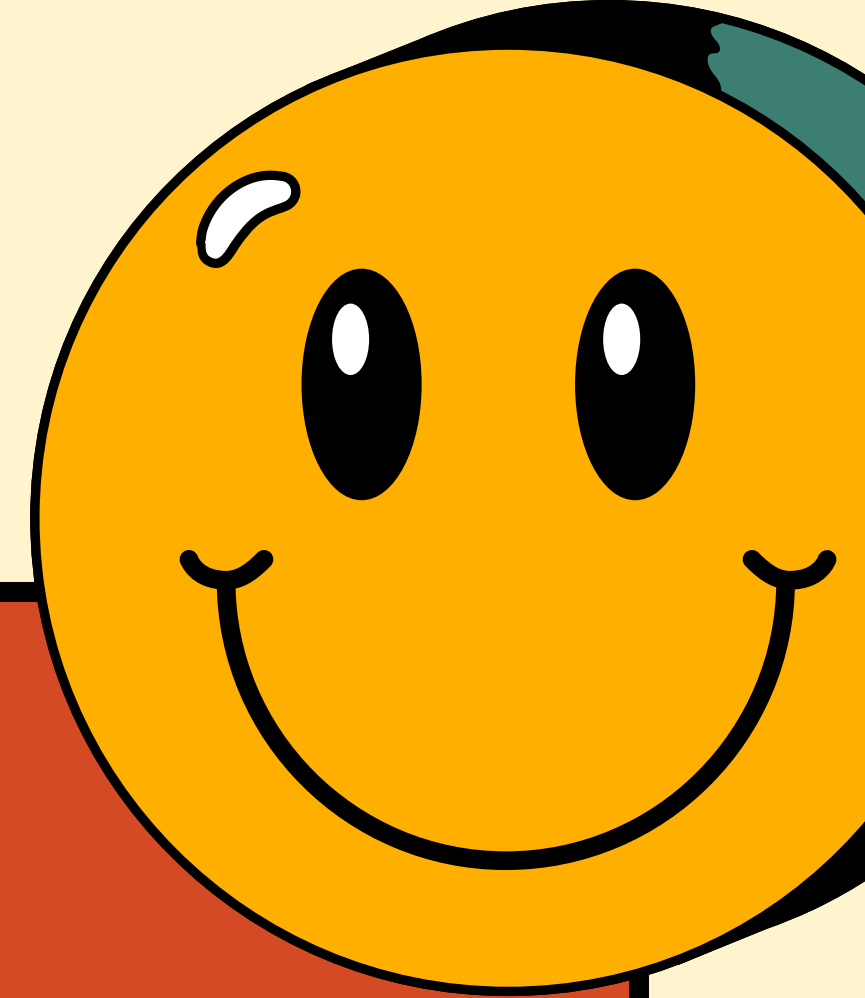


Introduction

In this project, I analyzed a dataset related to pizza sales to uncover insights and trends that can help in decision-making for a pizzeria. By leveraging SQL, I queried the data to understand various aspects such as sales performance, popular pizzas, max profit.

1)retrive the total number of orders placed

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



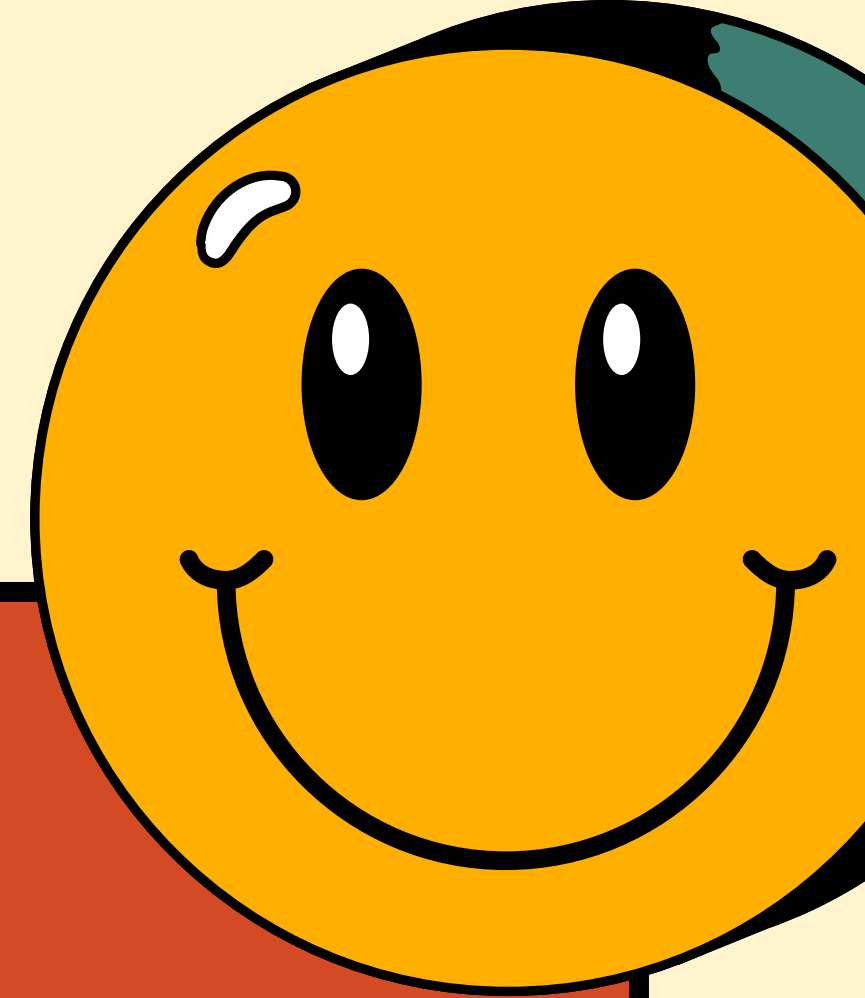
2)calculate the total revenue generated from pizza sales

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



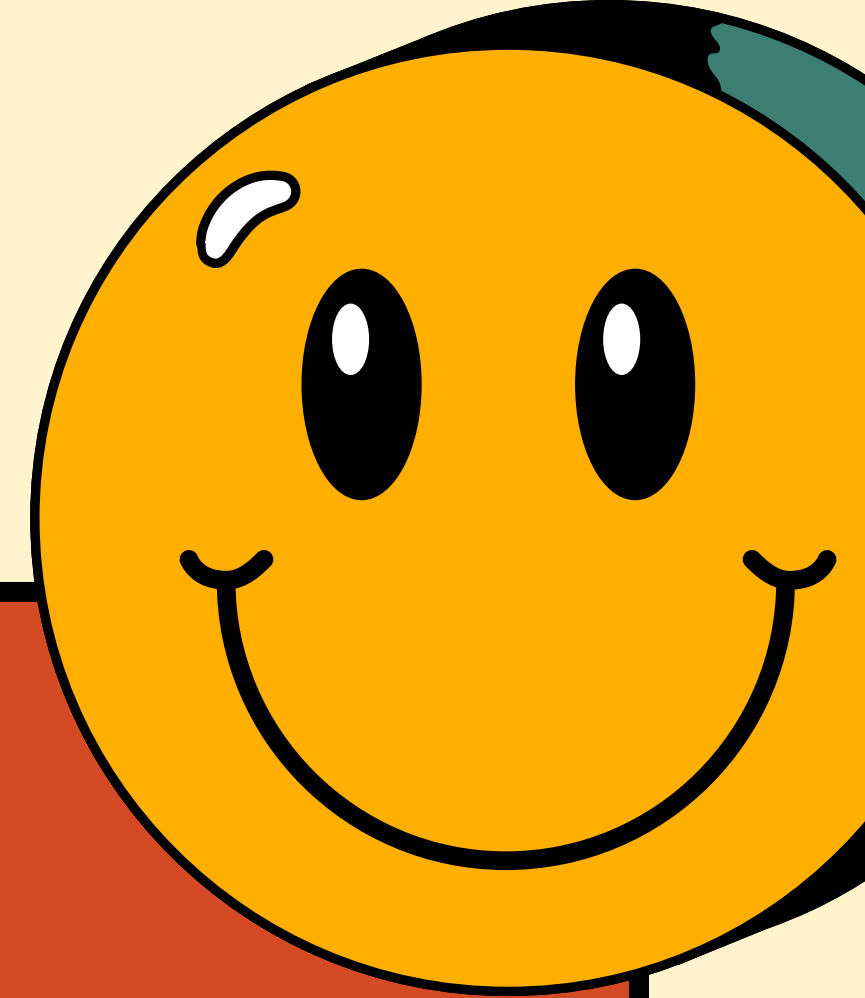
3)to identify the highest prized pizza

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



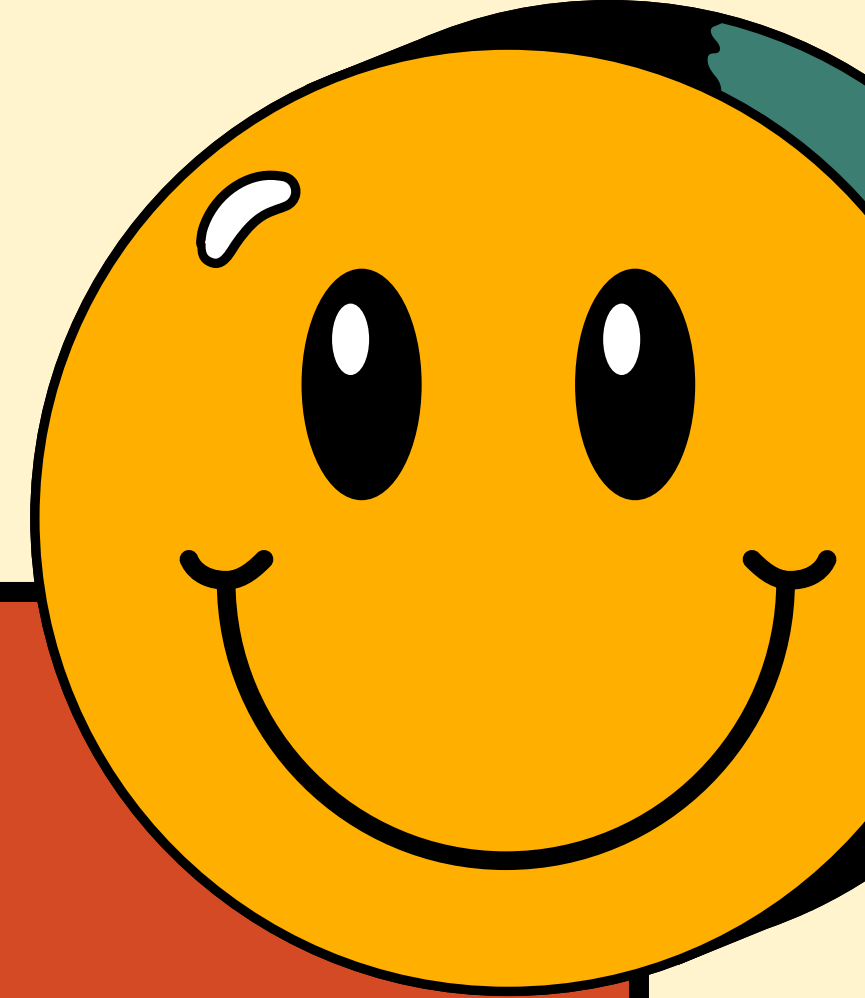
4)identify the most common pizza size ordered

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



5)list the 5 most ordered pizza types along with their quantities

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS
    total_quantity
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 total_quantity DESC
LIMIT 5;
```

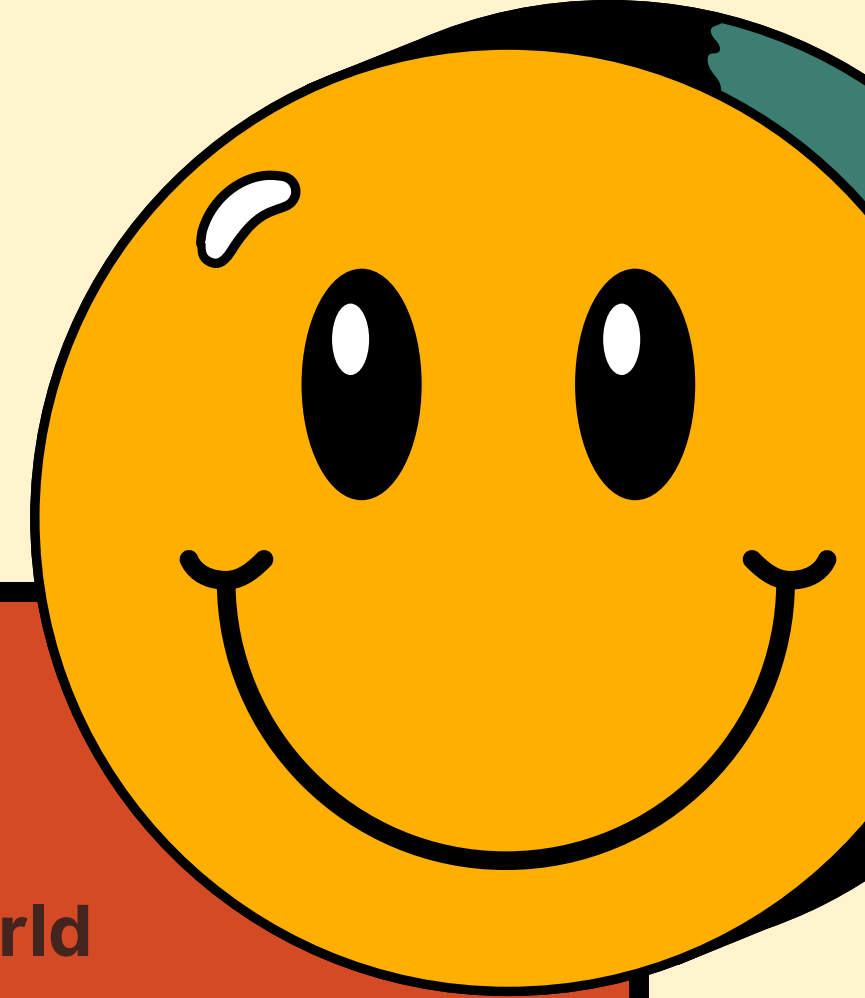


6)Join the necessary tables to find the total quantity of each pizza category ordered.



```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS total_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 total_quantity DESC;
```

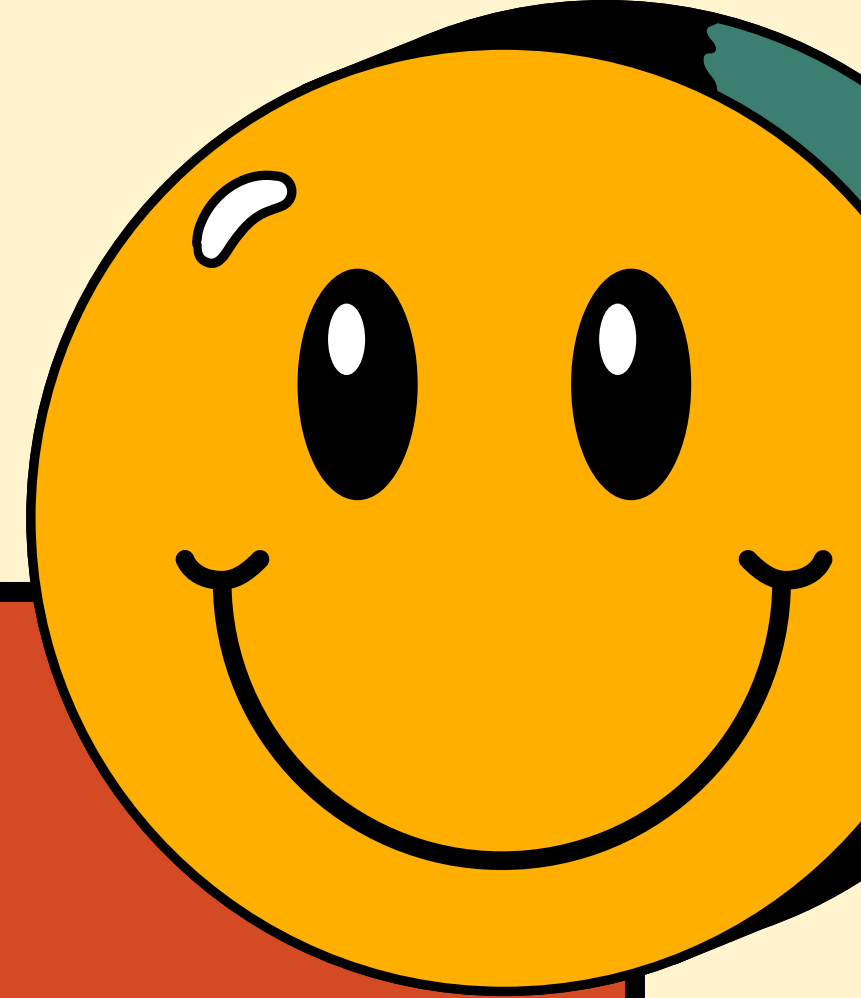

7) Determine the distribution of orders by hour of the day.



```
SELECT
    HOUR(order_time) AS hours, COUNT(order_id) AS count_orderId
FROM
    orders
GROUP BY hours
ORDER BY count_orderId DESC;
```

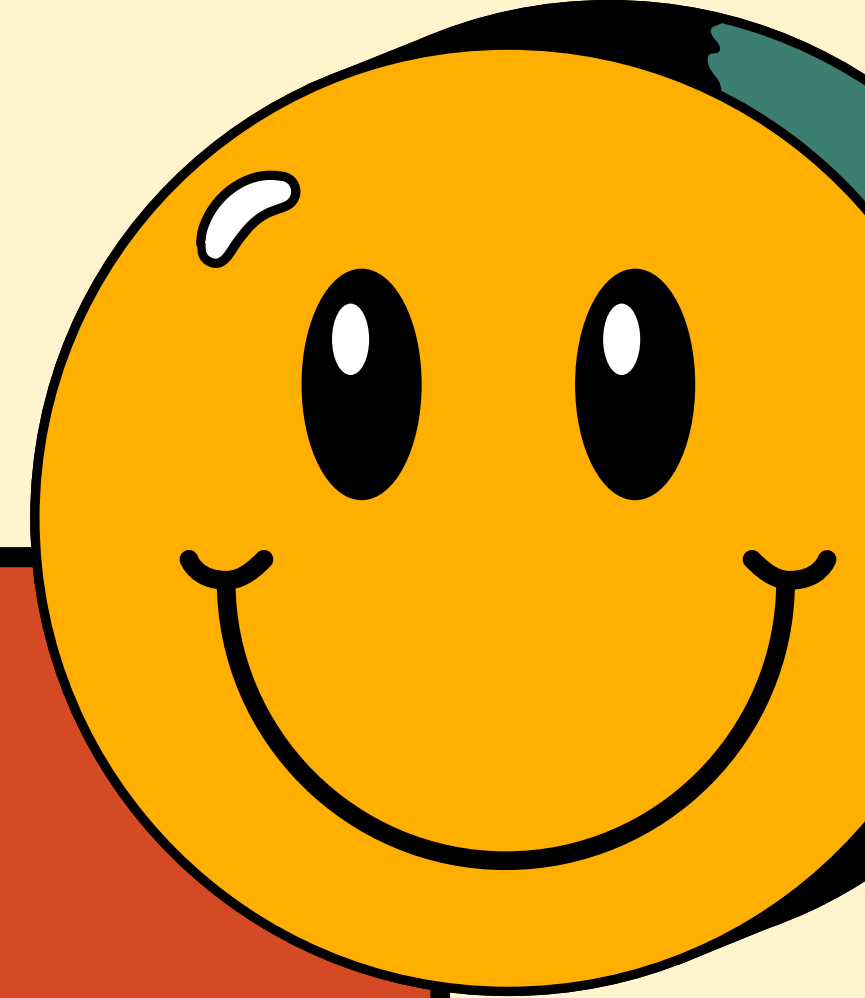
8)Join relevant tables to find the category-wise distribution of pizzas.

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

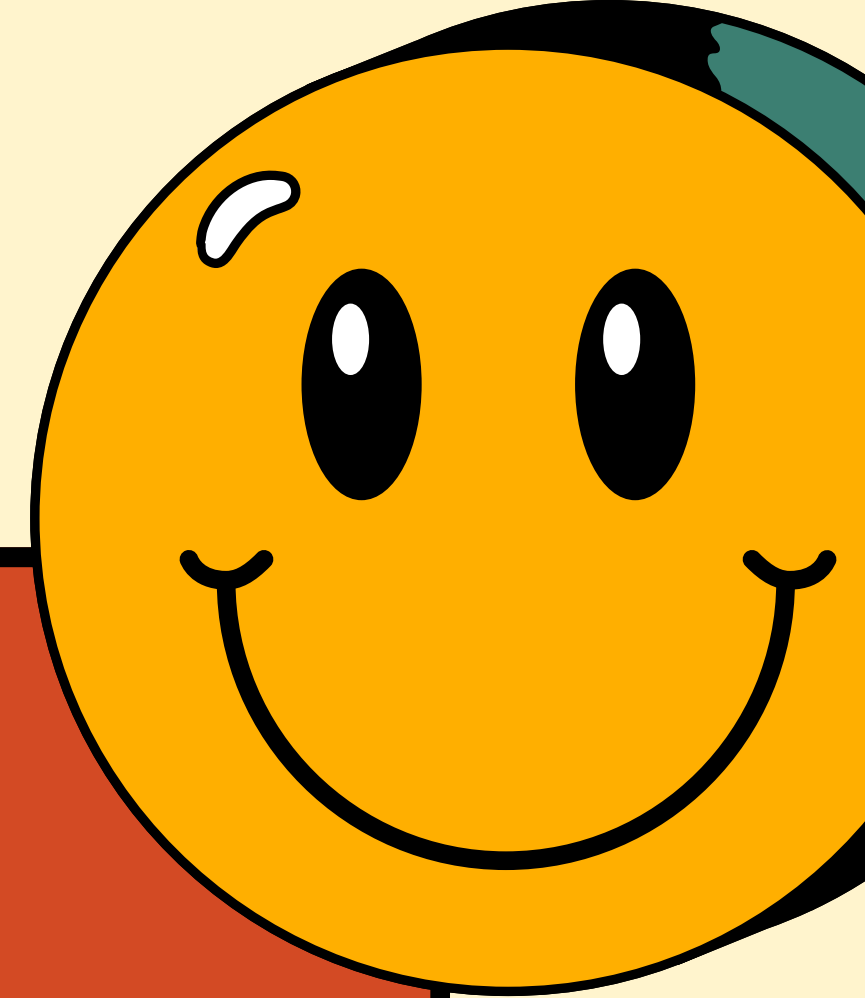


9) Group the orders by date and calculate the average number of pizzas ordered per day.

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



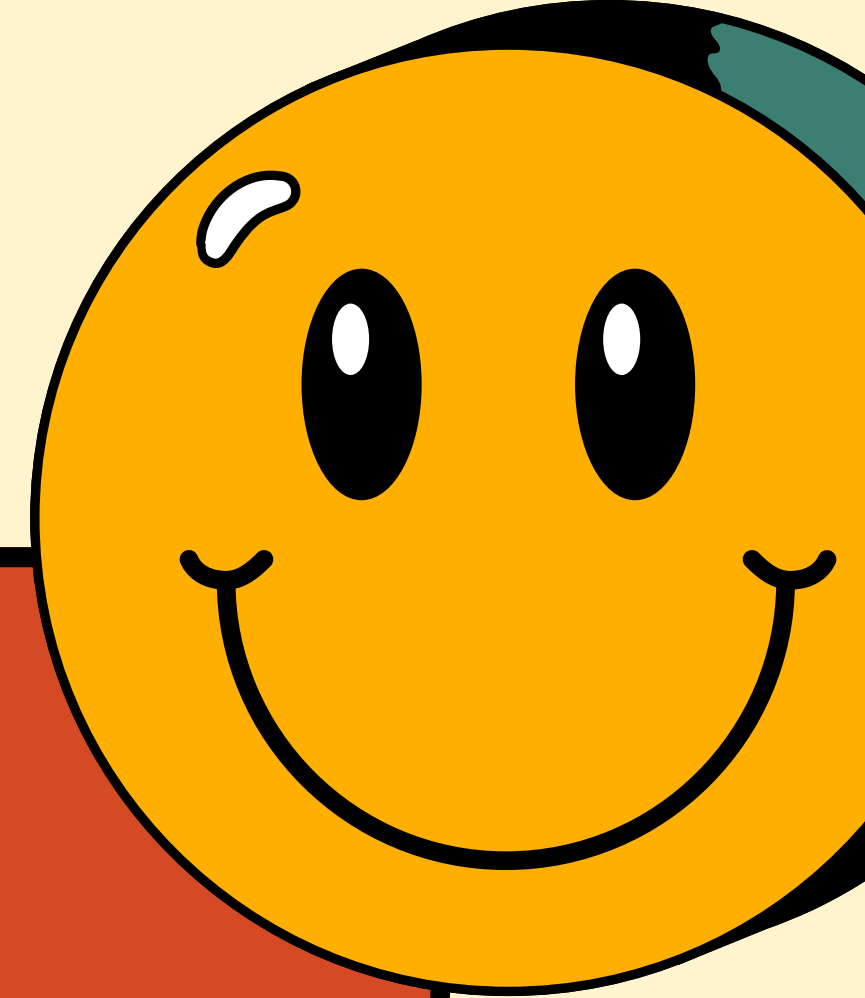
10) Determine the top 3 most ordered pizza types based on revenue.



```
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 order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

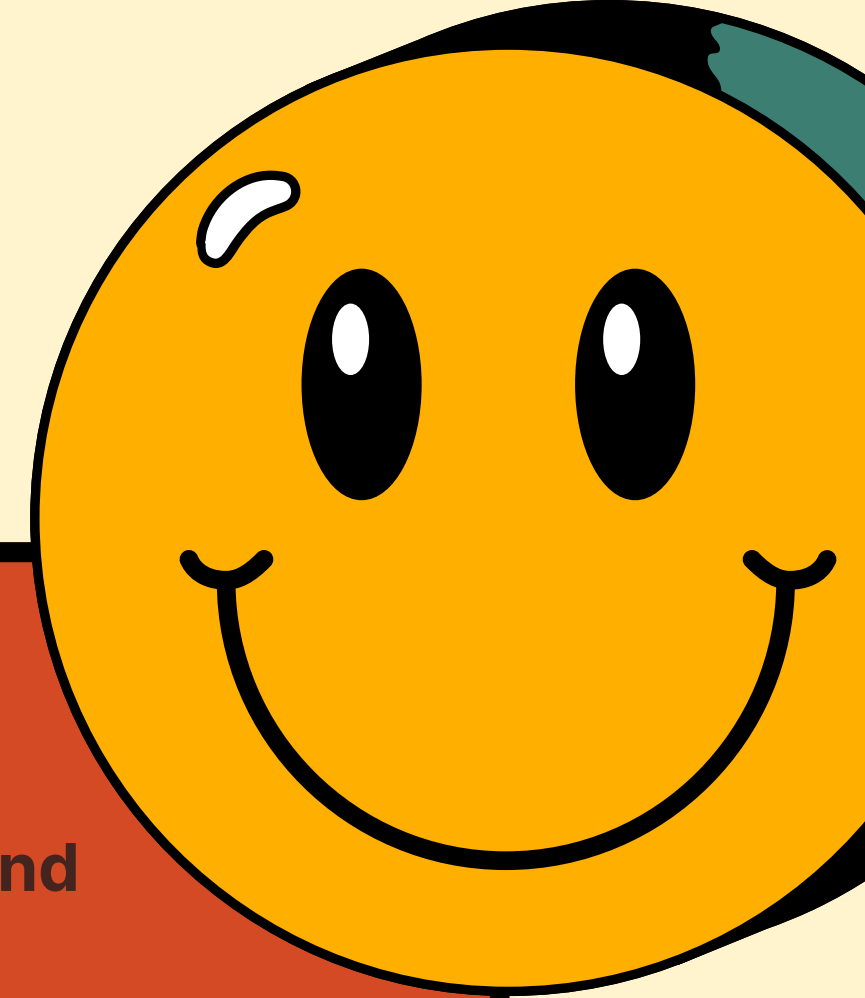
11) Calculate the percentage contribution of each pizza type to total revenue.

```
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 order_details.pizza_id = pizzas.pizza_id)*100 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
ORDER BY revenue DESC;
```



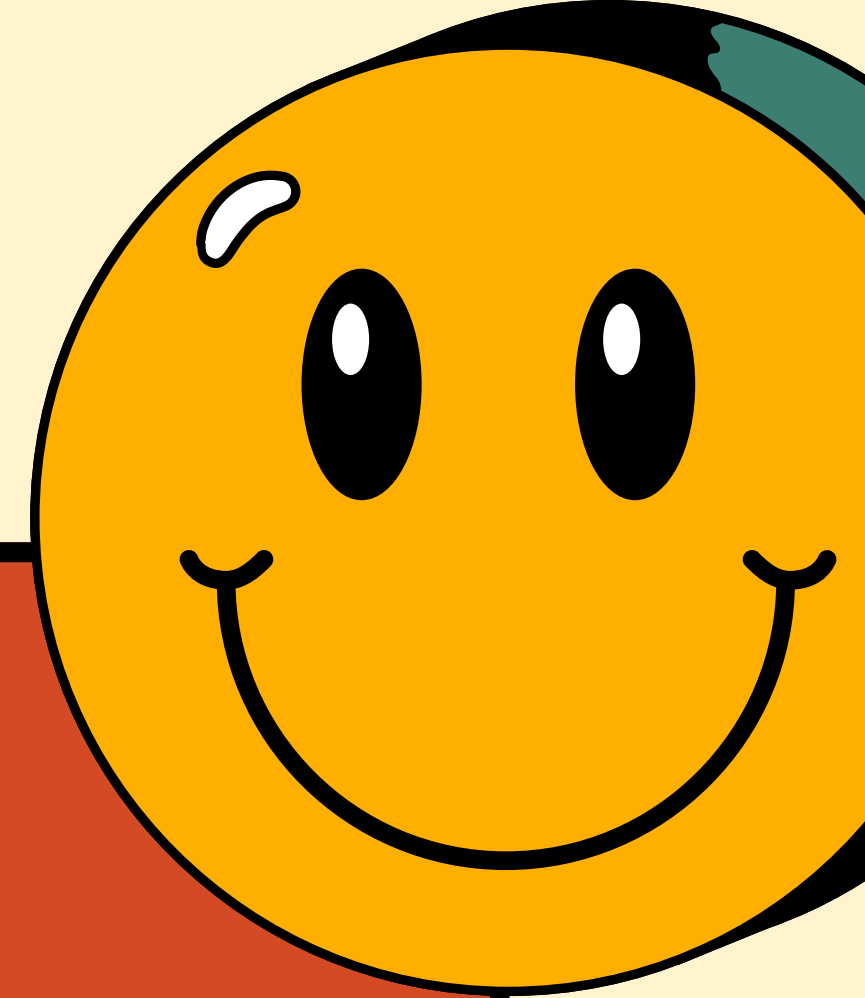
12) Analyze the cumulative revenue generated over time

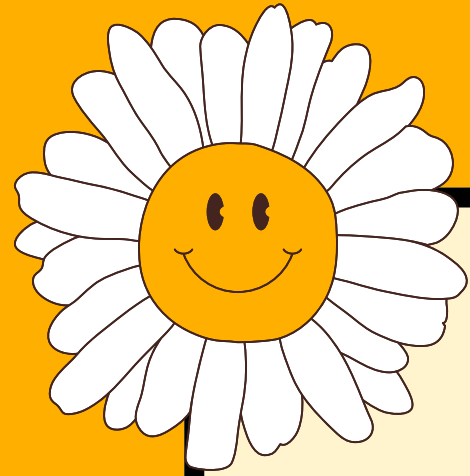
```
select order_date,sum(revenue) over( rows between unbounded preceding and
current row ) as cumulative_revenue from
(select orders.order_date,sum(order_details.quantity*pizzas.price) as revenue
from order_details join
pizzas on order_details.pizza_id=pizzas.pizza_id join orders on
order_details.order_id=orders.order_id group by orders.order_date) as sales;
```



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

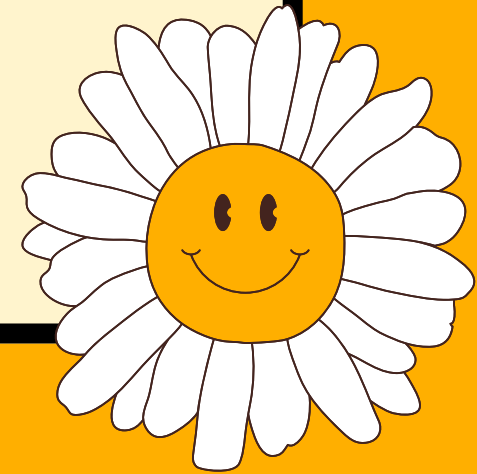
```
SELECT
  name,
  revenue
FROM (
  SELECT
    category,
    name,
    revenue,
    RANK() OVER(PARTITION BY category ORDER BY revenue DESC) AS rnk
  FROM (
    SELECT
      pizza_types.category,
      pizza_types.name,
      SUM(order_details.quantity * pizzas.price) AS revenue
    FROM
      pizza_types
    JOIN
      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
      order_details ON pizzas.pizza_id = order_details.pizza_id
    GROUP BY
      pizza_types.category,
      pizza_types.name
    ) AS pizza_table
  ) AS b
WHERE rnk <= 3;
```





Conclusion

This project not only showcases my proficiency in SQL but also my ability to apply data-driven approaches to real-world business problems.



Thank
You

