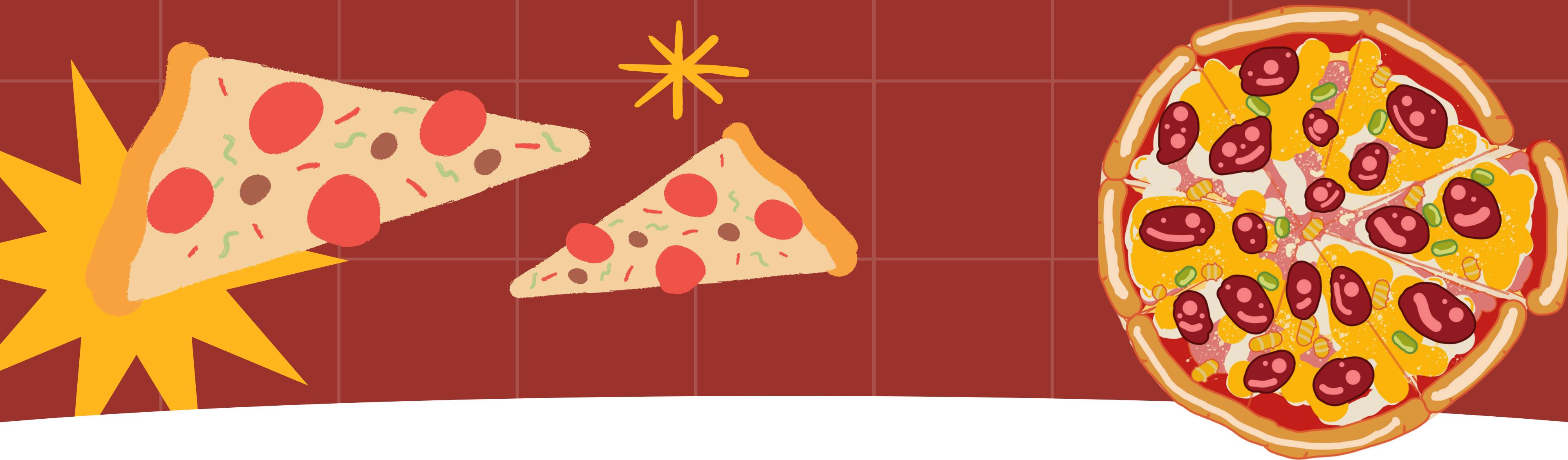


# SQL PROJECT ON PIZZA SALES

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A cartoon illustration of a woman with dark hair and glasses, wearing a yellow top, holding a young boy who is eating a slice of pizza. They are standing in front of a red background with yellow starburst shapes.

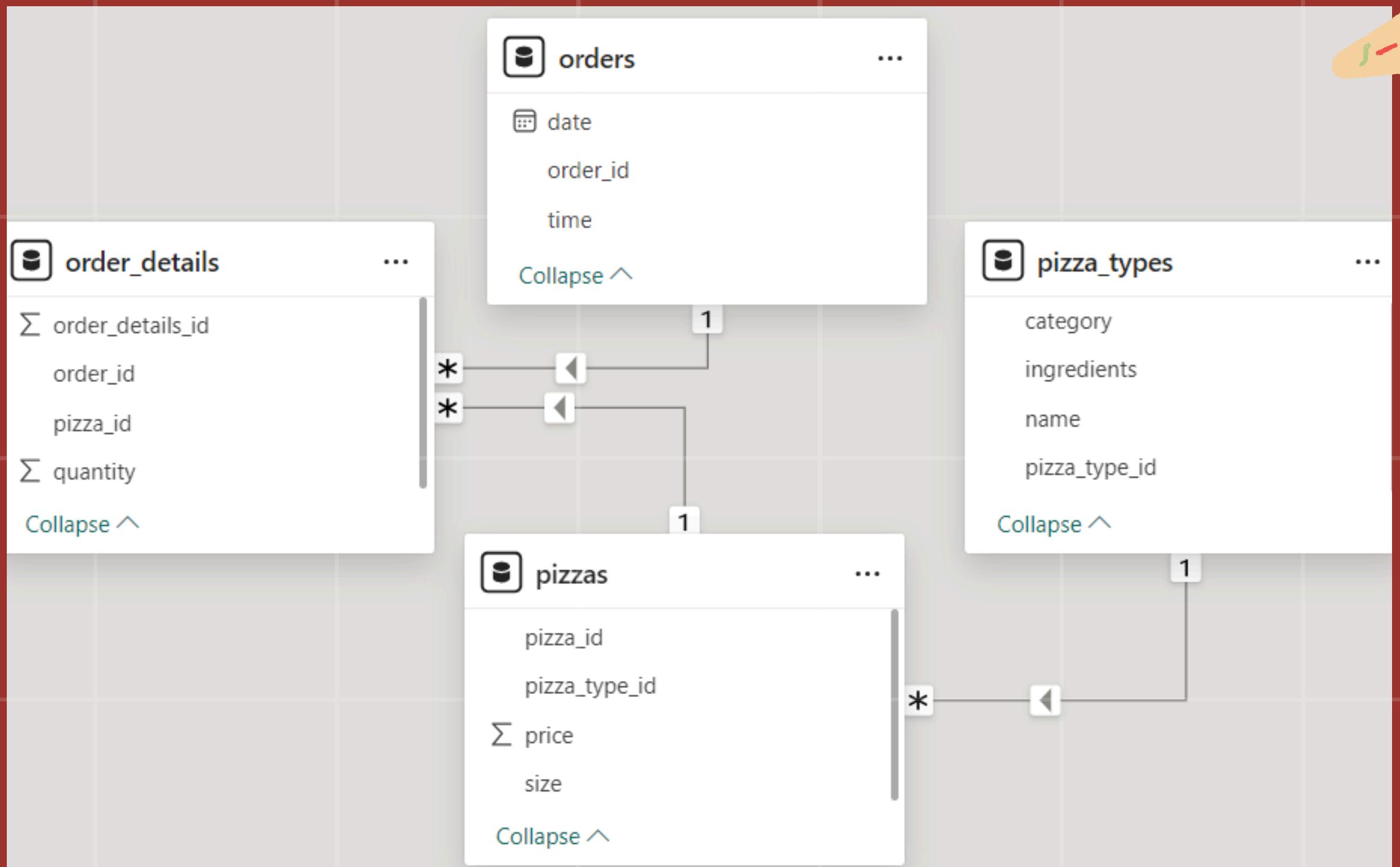
# DATA SOURCE

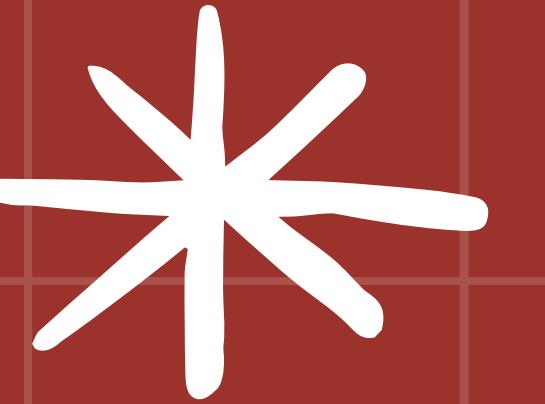
The data source is obtained from Kaggle.

The data is divided into 4 tables:

1. Order Details
2. Orders
3. Pizzas
4. Pizza types

# MODEL VIEW





## This project is related to the Pizza Sales Data

Pizza is a dish that originates from Italy and is one of the favorite foods of many people in various parts of the world.

**Let's start to solve basics to advance SQL queris in  
the world of pizza!**

# BASIC QUERIES

Retrieve the total number of orders placed.

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



# Calculate the total revenue generated from pizza sales.



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



# Identify the highest-priced pizza.

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



# Identify the most common pizza size ordered.

```
SELECT  
size, COUNT(*) AS count  
FROM  
order_details od  
JOIN  
pizzas p ON od.pizza_id = p.pizza_id  
GROUP BY size  
ORDER BY count DESC  
LIMIT 1;
```



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

```
SELECT
pt.name, SUM(od.quantity) AS total_quantity
FROM
order_details od
JOIN
pizzas p ON od.pizza_id = p.pizza_id
JOIN
pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.name
ORDER BY total_quantity DESC
LIMIT 5;
```



# INTERMEDIATE

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

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



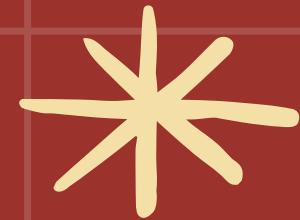
Determine the distribution of orders by hour of the day.

```
SELECT  
    HOUR(time) AS hours, COUNT(*) AS  
    total_orders  
FROM  
    orders  
GROUP BY hours  
ORDER BY hours;
```



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

```
SELECT pt.category, count(*) as count  
      FROM order_details od  
      JOIN pizzas p ON od.pizza_id =  
                    p.pizza_id  
      JOIN pizza_types pt ON p.pizza_type_id  
                    = pt.pizza_type_id  
      GROUP BY pt.category;
```

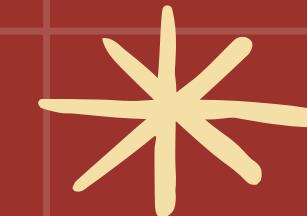


Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT  
ROUND(AVG(total_pizzas), 0) AS  
Avg_Pizzas_per_day  
FROM  
(SELECT  
o.date, SUM(od.quantity) AS total_pizzas  
FROM  
order_details od  
JOIN orders o ON od.order_id = o.order_id  
GROUP BY o.date) AS order_quantity;
```

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 pt.pizza_type_id = p.pizza_type_id  
JOIN  
order_details od ON od.pizza_id = p.pizza_id  
GROUP BY pt.name  
ORDER BY revenue DESC  
LIMIT 3;
```



# ADVANCED

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

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



Analyze the cumulative revenue generated over time.

```
select date, sum(revenue) over (order by date)
      as running_sales from
(select o.date,sum(od.quantity*p.price) as
      revenue
from order_details od join pizzas p on
      od.pizza_id=p.pizza_id
join orders o on o.order_id = od.order_id
      group by o.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  
rk  
      from  
(select pt.category ,pt.name,sum((od.quantity) * p.price) as  
revenue  
      from pizza_types pt join pizzas p on  
      pt.pizza_type_id=p.pizza_type_id  
join order_details od on od.pizza_id=p.pizza_id  
group by pt.category,pt.name) as table1) as table2  
      where rk <=3;
```



**THANK YOU**