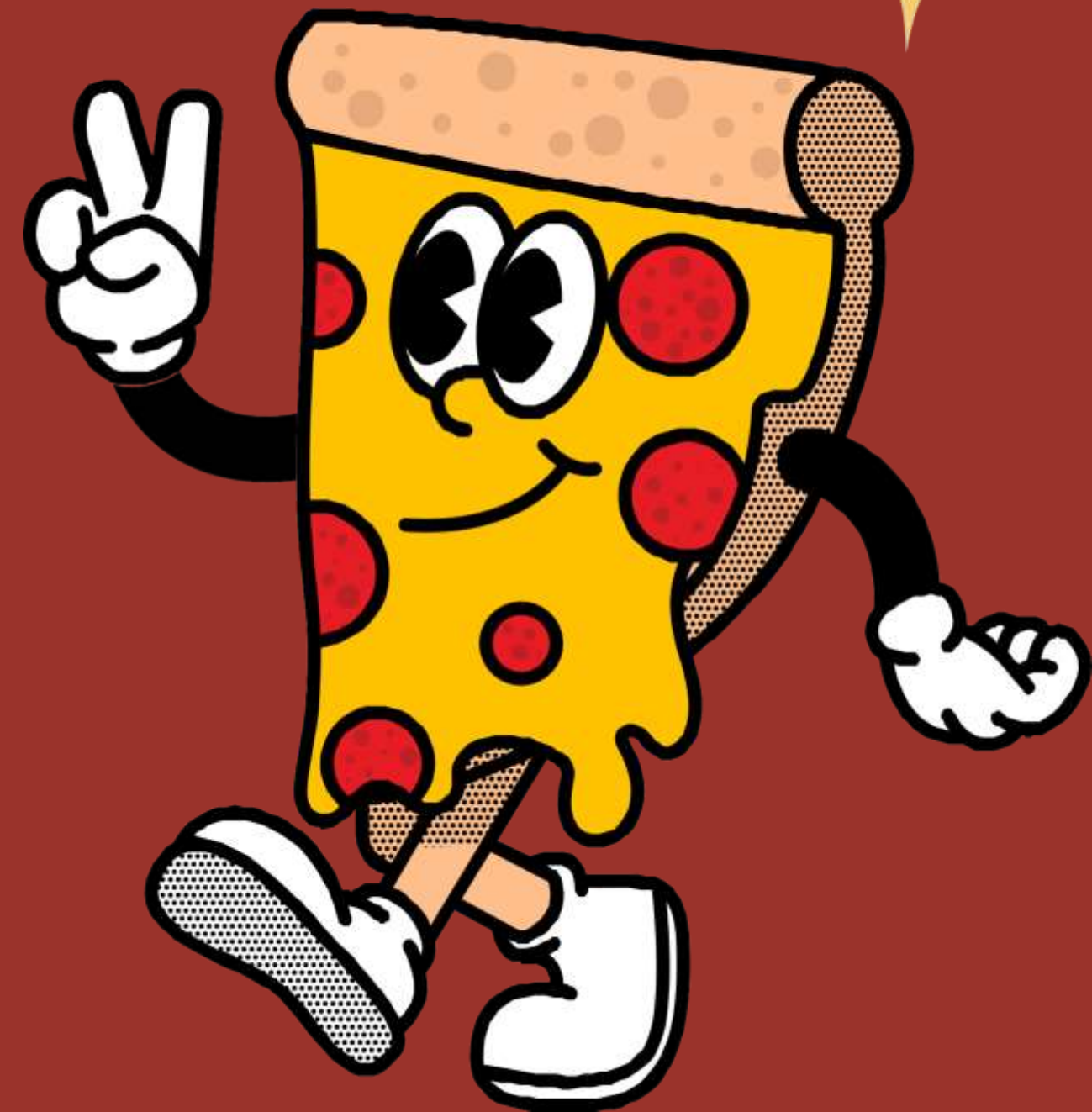




# PIZZA SALES ANALYSIS


Using SQL

By : DIVYADHARSHINI






# HELLO EVERYONE!

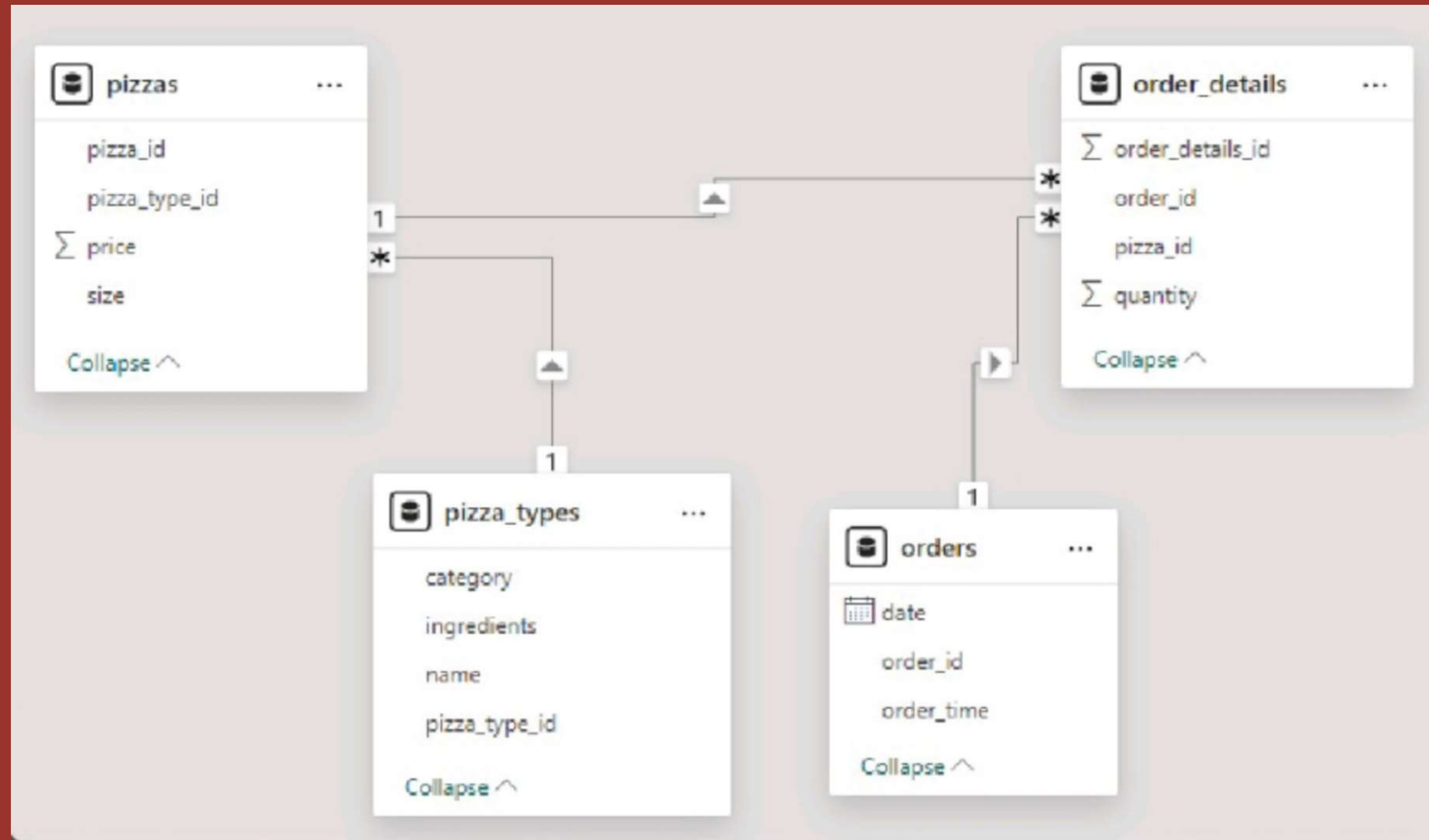


My name is Divyadharshini Singh and I developed an SQL project utilizing MySQL database software to conduct a comprehensive analysis of pizza sales data. The project involved working with four distinct datasets to extract key insights into various aspects of sales performance. factors driving success in the pizza industry . By addressing 11 critical questions, I was able to identify trends in sales, analyze customer behavior, and assess overall business performance, providing a deeper understanding of the driving success in the pizza industry.






# “SCHEMA”






# “QUESTIONS”

1. Retrieve the total number of orders placed.
  2. Calculate the total revenue generated from pizza sales.
  3. Identify the highest-priced pizza.
  4. Identify the most common pizza size ordered.
  5. List the top 5 most ordered pizza types along with their quantities.
  6. Join the necessary tables to find the total quantity of each pizza category ordered.
  7. Determine the distribution of orders by hour of the day.
  8. Join relevant tables to find the category-wise distribution of pizzas.
  9. Group the orders by date and calculate the average number of pizzas ordered per day.
  10. Determine the top 3 most ordered pizza types based on revenue.
  11. Calculate the percentage contribution of each pizza type to total revenue.
- 



1. Retrieve the total number of orders placed


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



| Result Grid |              |
|-------------|--------------|
|             | total_orders |
| ▶           | 21350        |

2. Calculate the total revenue generated from pizza sales.

```
6
7 • SELECT SUM( o.qunatity * p.price ) AS total_revenue
8   FROM order_details AS o
9   JOIN pizzas AS p
10  ON o.pizza_id = p.pizza_id;
11
```








| Result Grid |                   | Filter Rows |
|-------------|-------------------|-------------|
|             | total_revenue     |             |
| ▶           | 817860.0499999993 |             |



3. Identify the highest-priced pizza.

```
SELECT ptype.name, p.price
FROM pizza_types AS ptype
JOIN pizzas AS p
ON p.pizza_type_id = ptype.pizza_type_id
ORDER BY p.price desc
LIMIT 1;
```




| Result Grid |                 |       | Filter Rows |
|-------------|-----------------|-------|-------------|
|             | name            | price |             |
| ▶           | The Greek Pizza | 35.95 |             |



4. Identify the most common pizza size ordered.

```
20 • USE pizzahurt;  
21 • SELECT p.size, COUNT(o.oder_details_id) AS total  
22 FROM pizzas AS p  
23 JOIN order_details AS o  
24 ON p.pizza_id = o.pizza_id  
25 GROUP BY size;
```



|   | size | total |
|---|------|-------|
| ▶ | M    | 15385 |
|   | L    | 18526 |
|   | S    | 14137 |
|   | XL   | 544   |
|   | XXL  | 28    |



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

```
30 • SELECT
31     pizza_types.name, SUM(order_details.qunatity) AS qunatity
32 FROM
33     pizza_types
34     JOIN
35     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
36     JOIN
37     order_details ON order_details.pizza_id = pizzas.pizza_id
38 GROUP BY pizza_types.name
39 ORDER BY qunatity DESC
40 LIMIT 5;
```

| Result Grid |                            |          | Filter Rows: |
|-------------|----------------------------|----------|--------------|
|             | name                       | qunatity |              |
| ▶           | The Classic Deluxe Pizza   | 2453     |              |
|             | The Barbecue Chicken Pizza | 2432     |              |
|             | The Hawaiian Pizza         | 2422     |              |
|             | The Pepperoni Pizza        | 2418     |              |
|             | The Thai Chicken Pizza     | 2371     |              |

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

```
46 FROM
47     pizza_types
48     JOIN
49     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
50     JOIN
51     order_details ON order_details.pizza_id = pizzas.pizza_id
52 GROUP BY pizza_types.category
53 ORDER BY qunatity DESC;
```

| Result Grid |          |          | Filter |
|-------------|----------|----------|--------|
|             | category | qunatity |        |
| ▶           | Classic  | 14888    |        |
|             | Supreme  | 11987    |        |
|             | Veggie   | 11649    |        |
|             | Chicken  | 11050    |        |





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

- ```
SELECT HOUR(order_time) ,COUNT(order_id)
FROM orders
GROUP BY HOUR(order_time);
```

| Result Grid |                  |                 | Filter Rows: |
|-------------|------------------|-----------------|--------------|
|             | HOUR(order_time) | COUNT(order_id) |              |
| ▶           | 11               | 1231            |              |
|             | 12               | 2520            |              |
|             | 13               | 2455            |              |
|             | 14               | 1472            |              |
|             | 15               | 1468            |              |
|             | 16               | 1920            |              |
|             | 17               | 2336            |              |
|             | 18               | 2399            |              |

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

```
54 • SELECT category, COUNT(name) AS pizzaname  
55 FROM pizza_types  
56 GROUP BY category;
```


|   | category | pizzaname |
|---|----------|-----------|
| ▶ | Chicken  | 6         |
|   | Classic  | 8         |
|   | Supreme  | 9         |
|   | Veggie   | 9         |



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





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

| Result Grid |                   | Filter |
|-------------|-------------------|--------|
|             | pizzasorderperday |        |
| ▶           | 138               |        |



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

```
SELECT pt.name ,SUM(od.qunatity * pizzas.price) as revenue
FROM pizza_types AS pt
JOIN pizzas
ON pizzas.pizza_type_id = pt.pizza_type_id
JOIN order_details AS od
ON od.pizza_id = pizzas.pizza_id
GROUP BY pt.name
ORDER BY revenue
LIMIT 3;
```



|   | name                      | revenue            |
|---|---------------------------|--------------------|
| ▶ | The Brie Carre Pizza      | 11588.499999999999 |
|   | The Green Garden Pizza    | 13955.75           |
|   | The Spinach Supreme Pizza | 15277.75           |



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

```
USE pizzahunt;
SELECT
  pizza_types.category,
  (SUM(order_details.quantity * pizzas.price) / (
    SELECT
      ROUND(SUM(order_details.quantity * pizzas.price), 2)
    FROM
      order_details
    JOIN
      pizzas ON pizzas.pizza_id = order_details.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;
```



| Result Grid |          |                    | Filter Rows: |
|-------------|----------|--------------------|--------------|
|             | category | revenue            |              |
| ▶           | Classic  | 26.90596025566967  |              |
|             | Supreme  | 25.45631126009862  |              |
|             | Chicken  | 23.955137556847287 |              |
|             | Veggie   | 23.682590927384577 |              |



THANK YOU