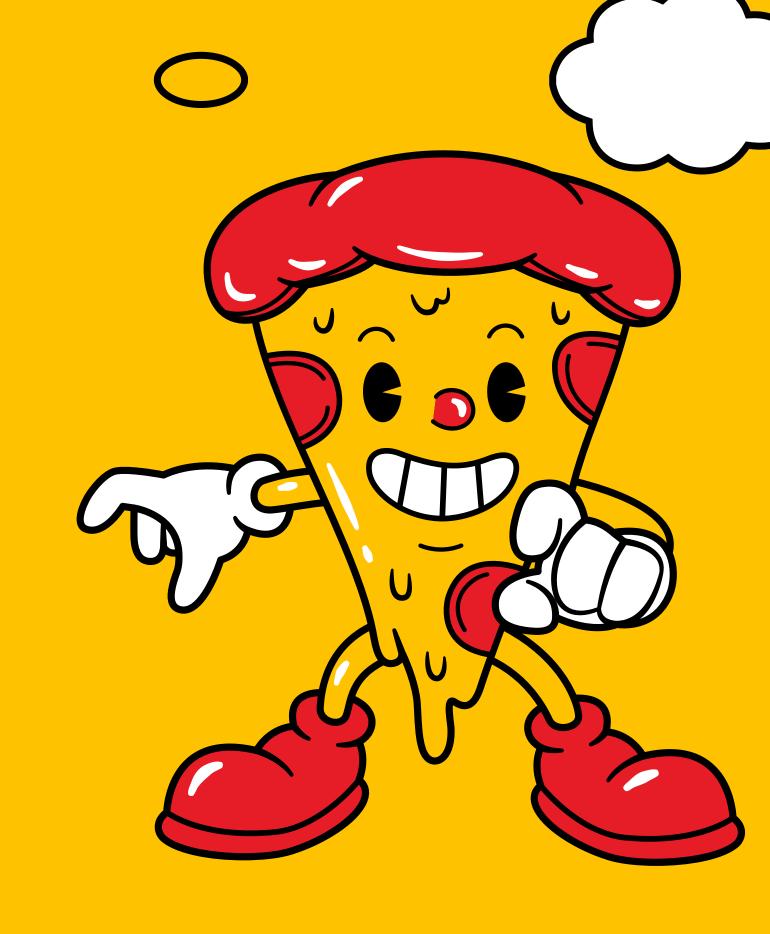
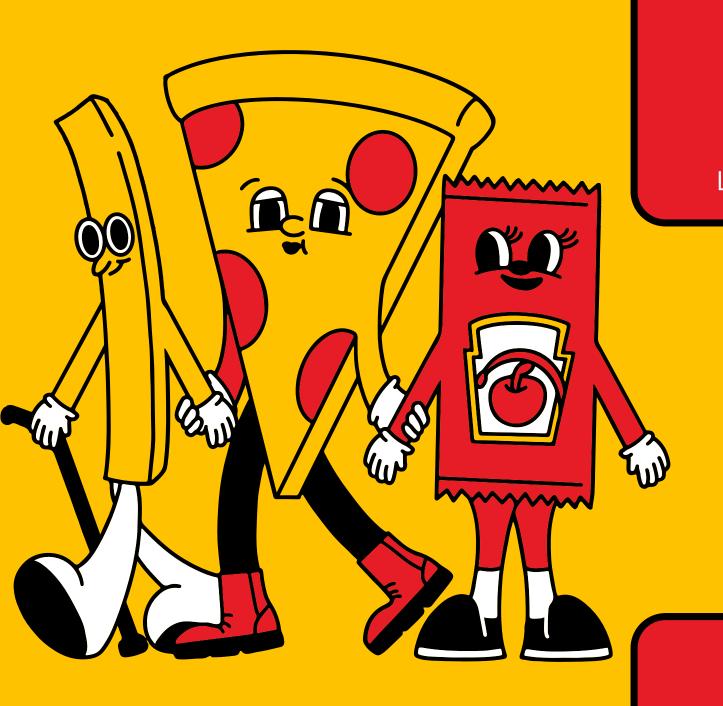


Hello....my name is Puja Ghosh.... in this project i have utilized SQL query to solve questions related to pizza sales. WELCOME TO PIZZA DAY!

# Aim of Project

The aim of the project is to analyze pizza sales data to identify trends and provide actionable insights that can help to increasesalers and object to uncover key matrics and patterns within the sales data by laveraging SQL queries in MYSQL.





#### Basic:

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.

#### Intermediate:

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.

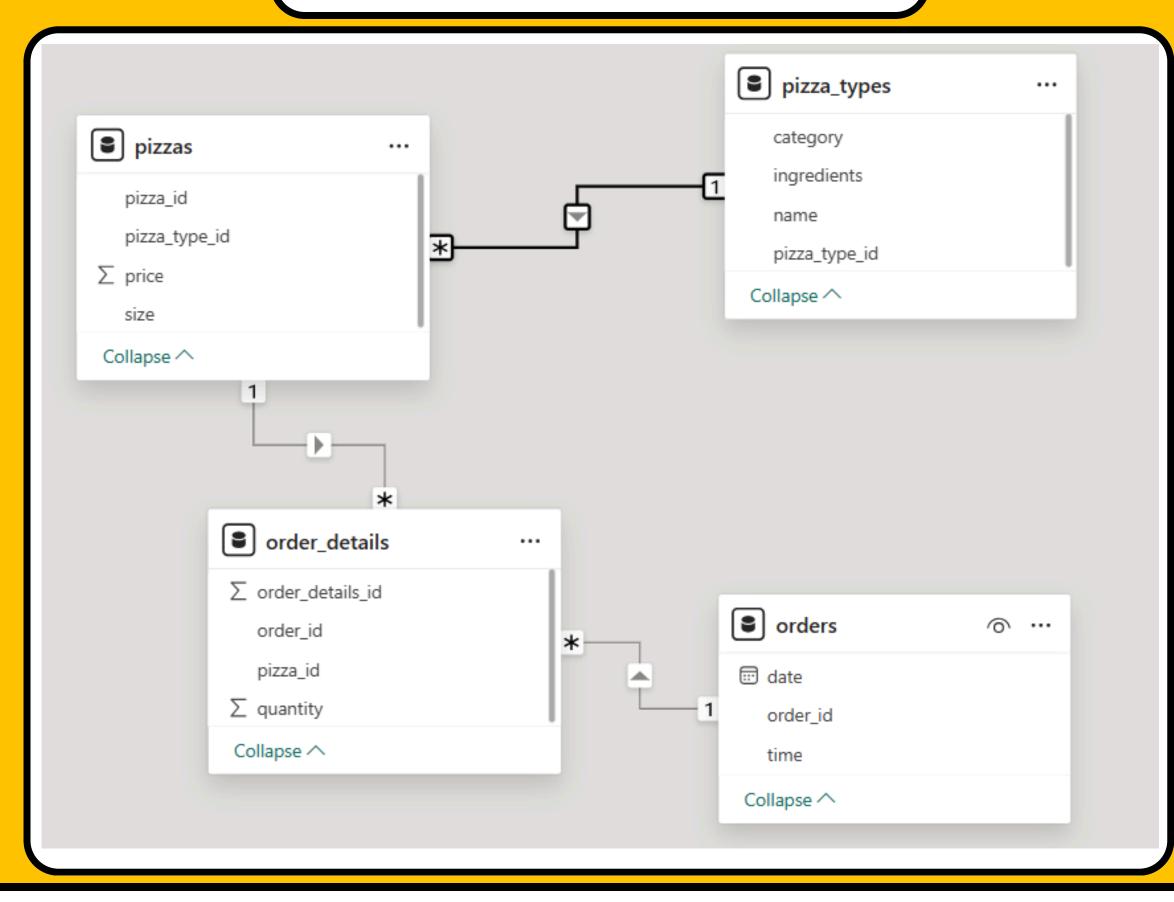
#### **Advanced:**

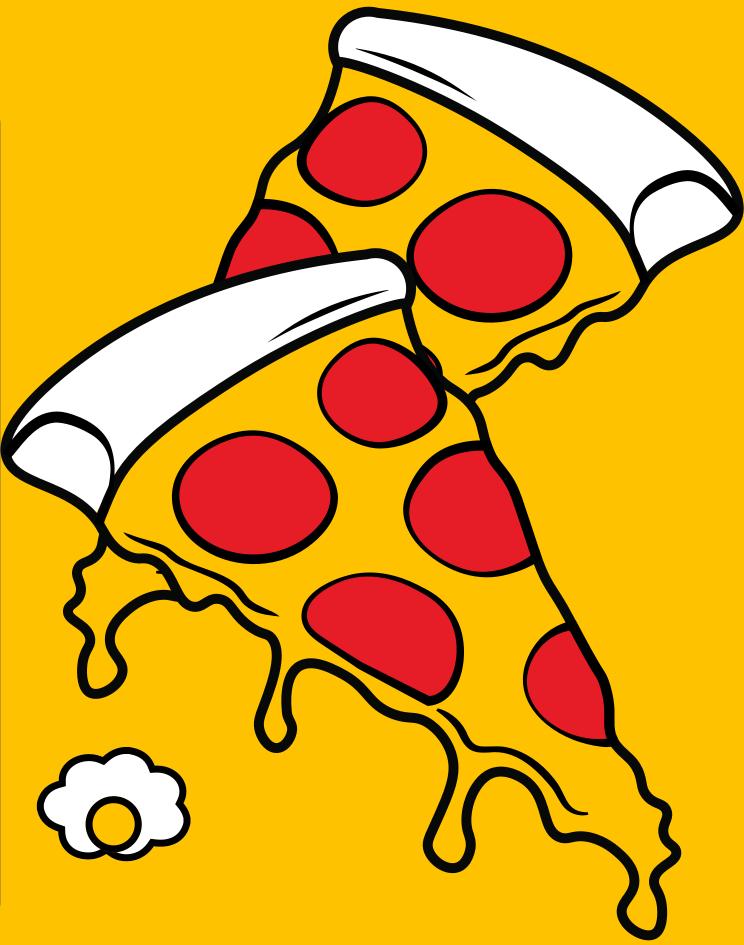
Calculate the percentage contribution of each pizza type to total revenue.

Analyze the cumulative revenue generated over time.

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

### **SCHEMA MODEL**

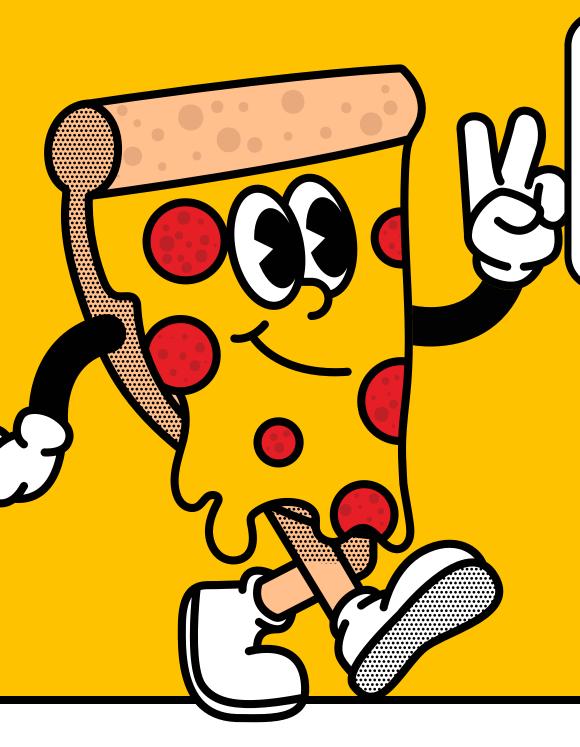




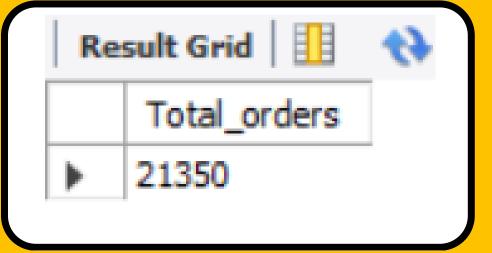
# **Basic Questions:**

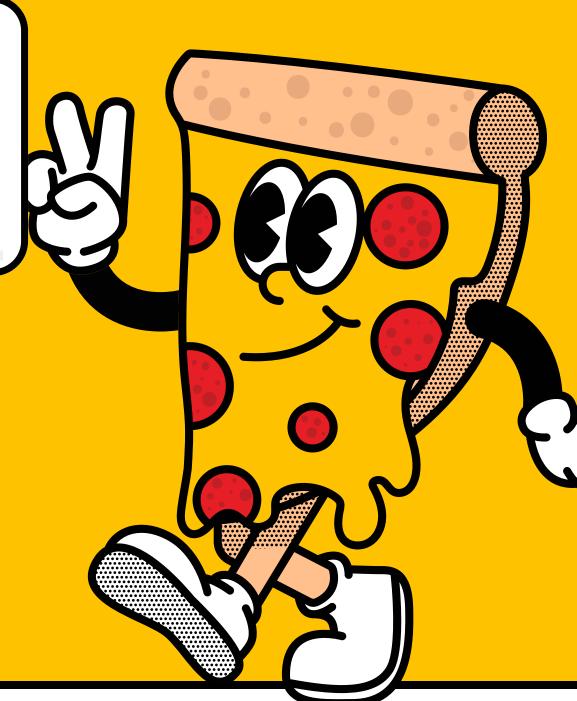




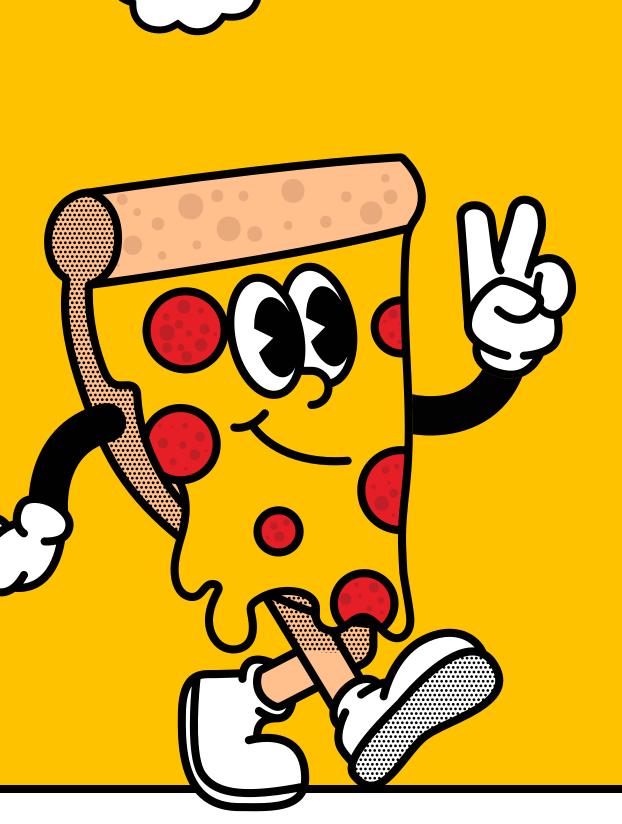


SELECT
 COUNT(order\_id) AS Total\_orders
FROM
 orders;





#### 2. Calculate the total revenue generated from pizza sales.



```
SELECT

ROUND(SUM((order_details.quantity * pizzas.price)),

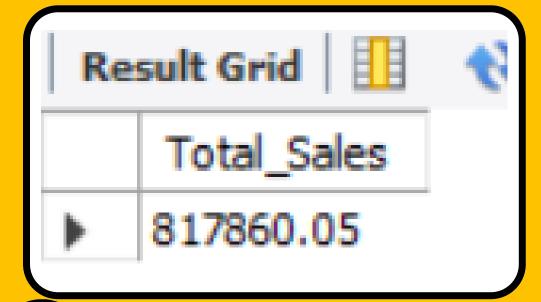
2) AS Total_Sales

FROM

order_details

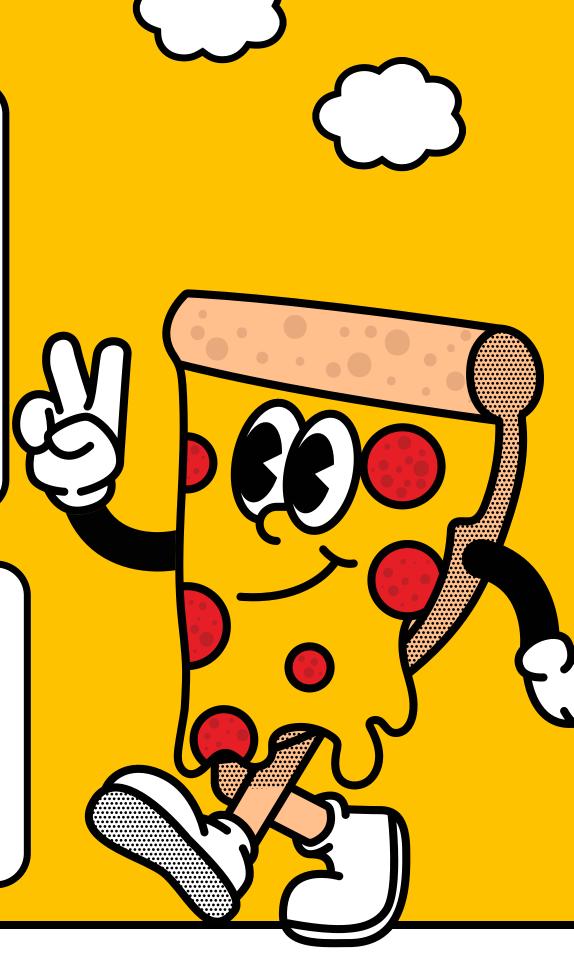
JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id;
```



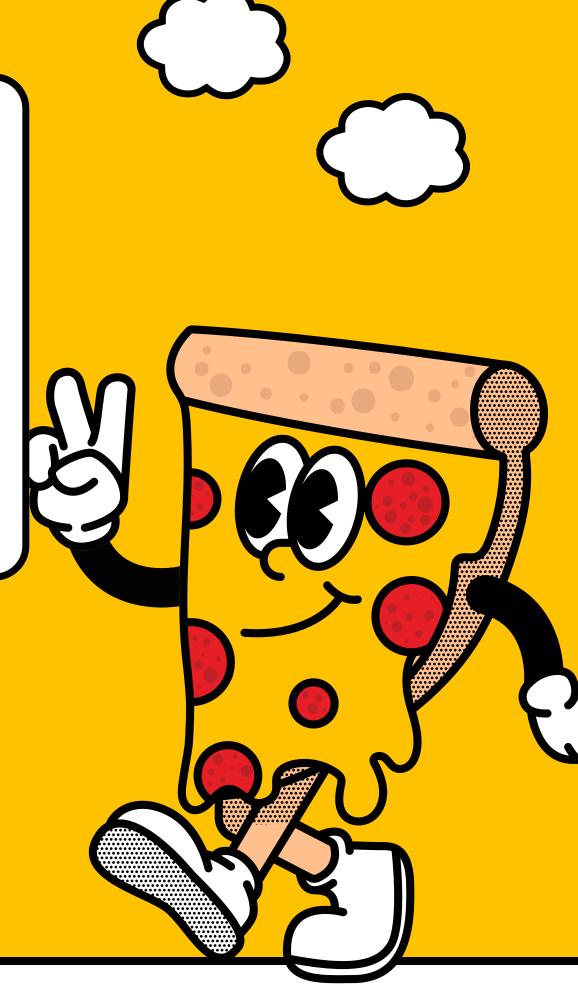
#### 3.Identify the highest-priced pizza.



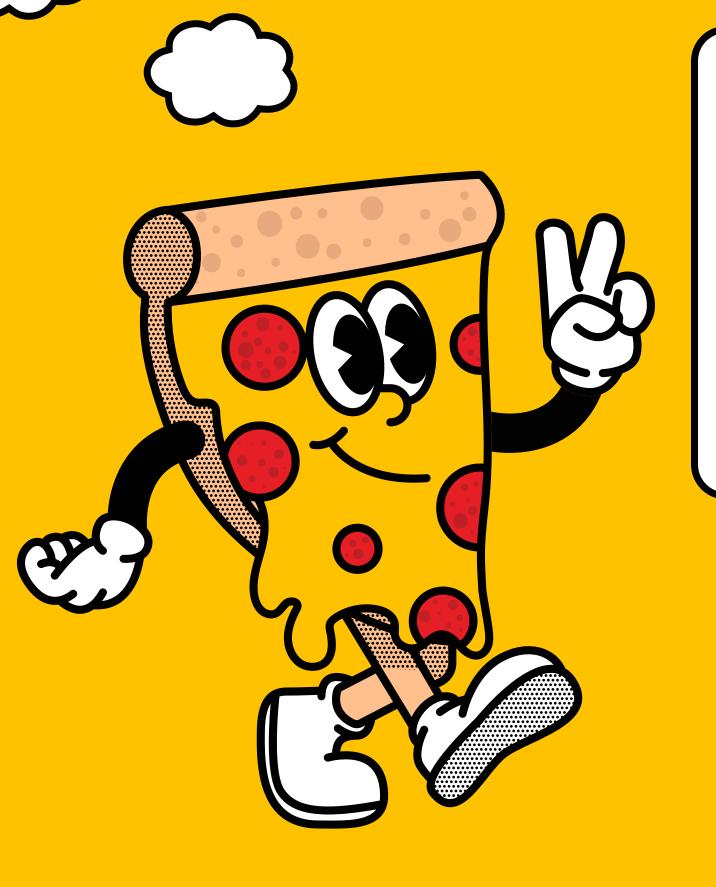


#### 4. Identify the most common pizza size ordered.

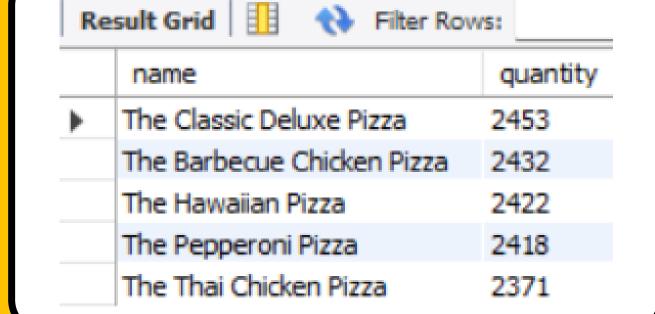
Re	sult Grid	∐ ∰ Fi
	size	order_count
•	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



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

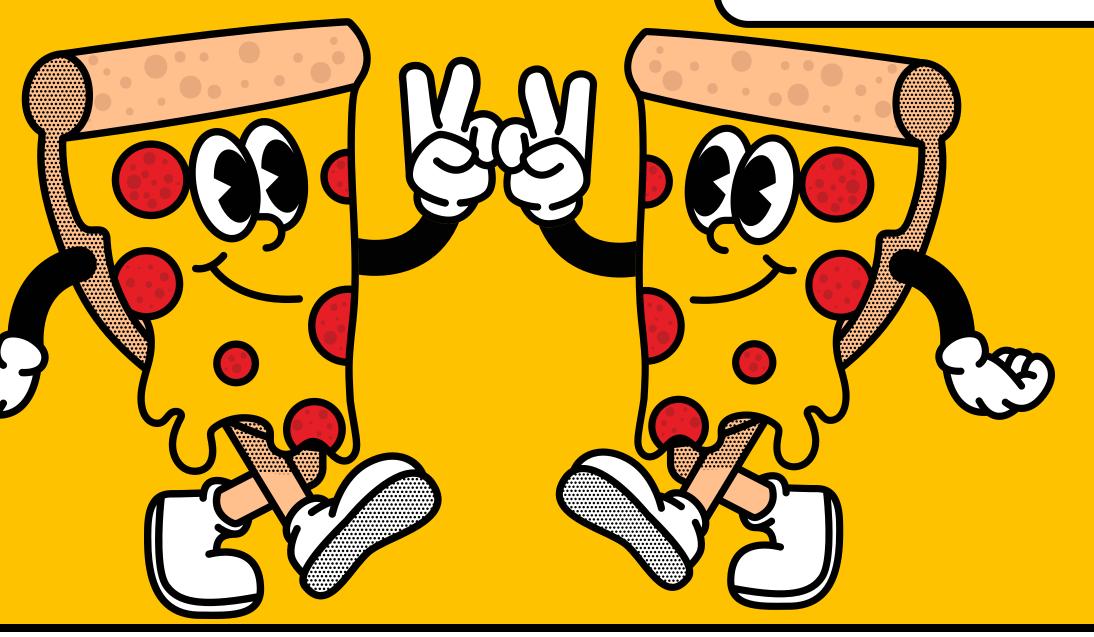


```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;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



# 6.Determine the distribution of orders by hour of the day.

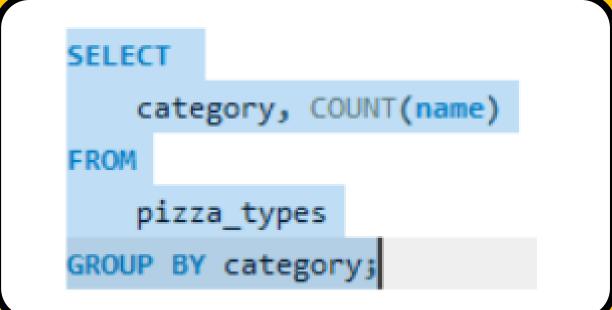


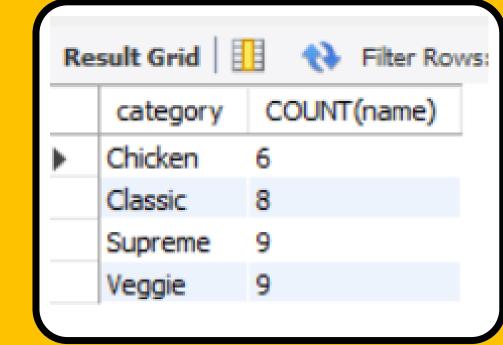


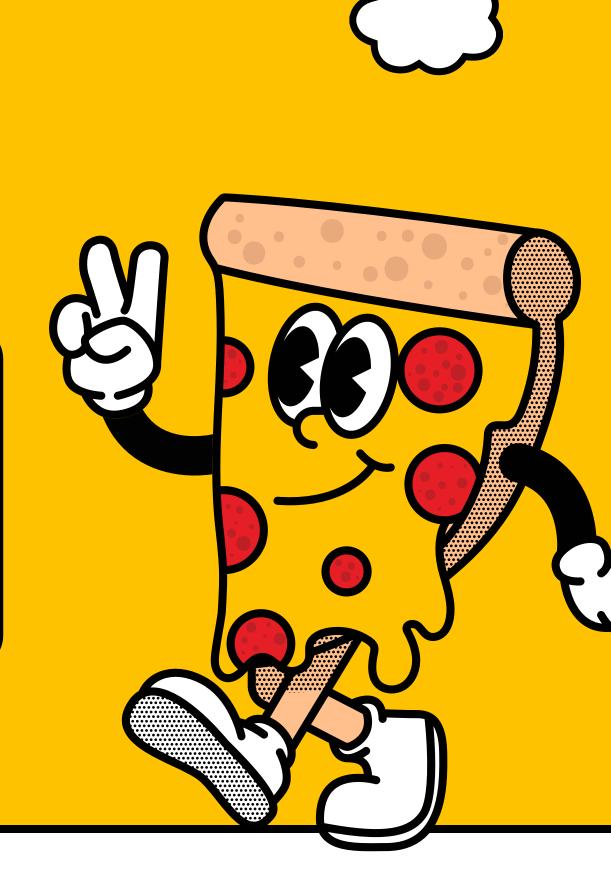
	Result Grid				
IVE	hour	order_count			
<b></b>	11	1231			
	12	2520			
	13	2455			
	14	1472			
	15	1468			
	16	1920			
	17	2336			
	18	2399			
	19	2009			
	20	1642			
	21	1198			
	22	663			
	23	28			
	10	8			
	9	1			

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





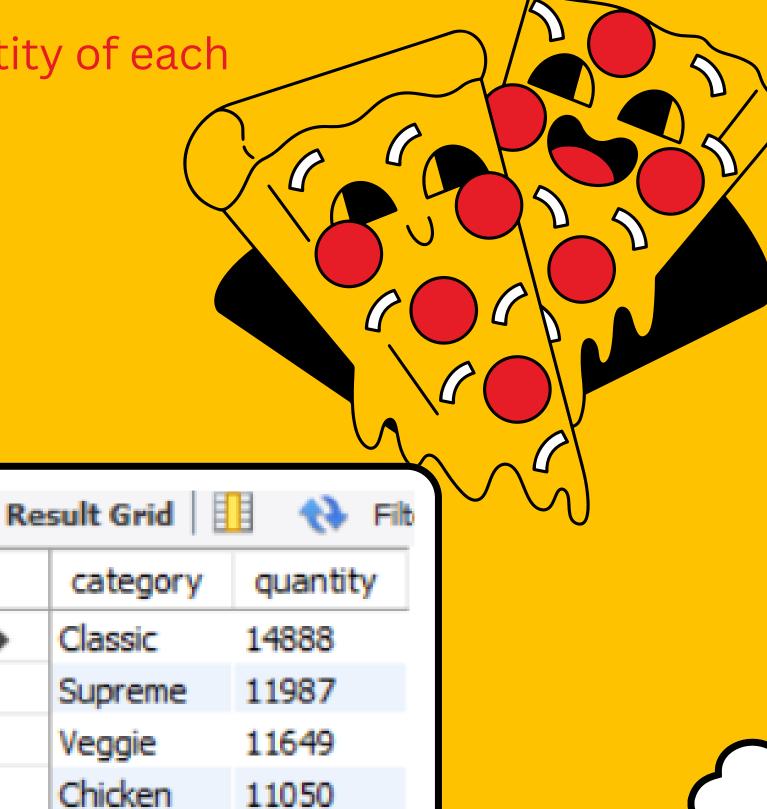




#### **Intermediate Questions:**

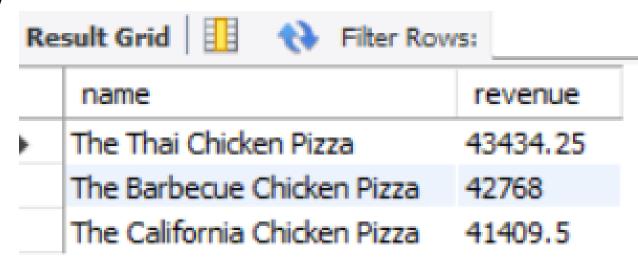
1.Join the necessary tables to find the total quantity of each pizza category ordered.

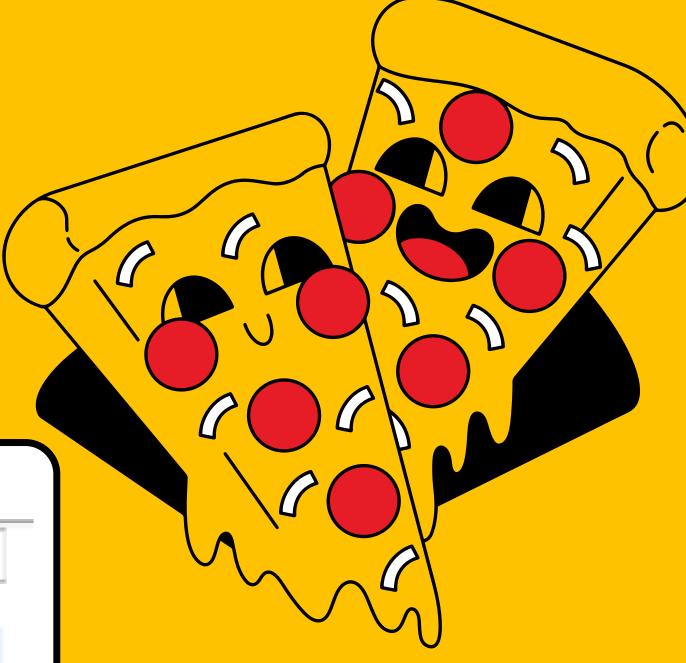
```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```



#### 2.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;
```





#### 3. Analyze the cumulative revenue generated over time.

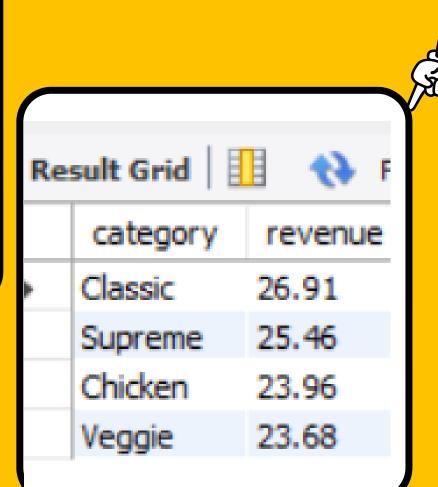


Re	esult Grid	Filter Rows:
	date	cum_revenue
	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.50000000001
	2015-01-16	36937.65000000001

### **Advanced Questions:**

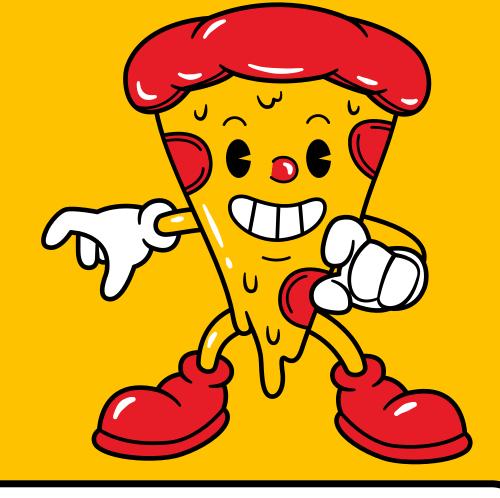
1. Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
   pizza_types.category,
   ROUND((SUM(order_details.quantity * pizzas.price) / (SELECT
                   ROUND(SUM((order_details.quantity * pizzas.price)),
                               AS Total Sales
               FROM
                   order_details
                   pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100,
           2) 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;
```





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



Re	Result Grid					
	name	revenue				
•	The Thai Chicken Pizza	43434.25				
	The Barbecue Chicken Pizza	42768				
	The California Chicken Pizza	41409.5				
	The Classic Deluxe Pizza	38180.5				
	The Hawaiian Pizza	32273.25				
	The Pepperoni Pizza	30161.75				
	The Spicy Italian Pizza	34831.25				
	The Italian Supreme Pizza	33476.75				
	The Sicilian Pizza	30940.5				
	The Four Cheese Pizza	32265.7000000006				
	The Mexicana Pizza	26780.75				
	The Five Cheese Pizza	26066.5				



