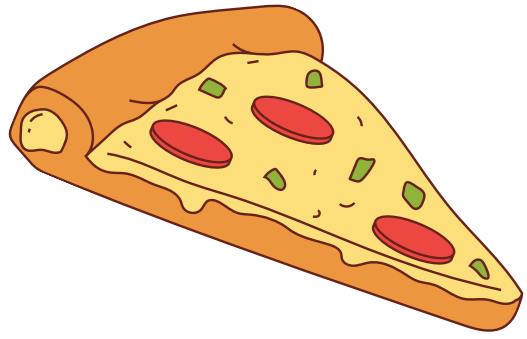


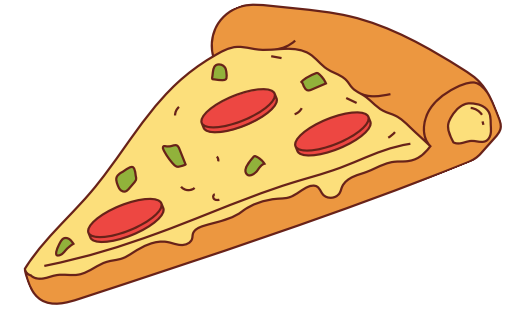
# Hello Everyone !

**My name is Shubham sen in this project i have utilize  
Sql queries to solve questions related to pizza sales.**

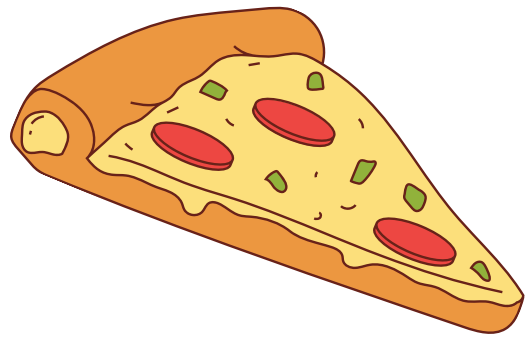




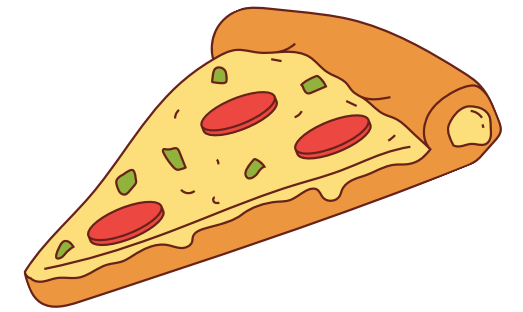
# Questions



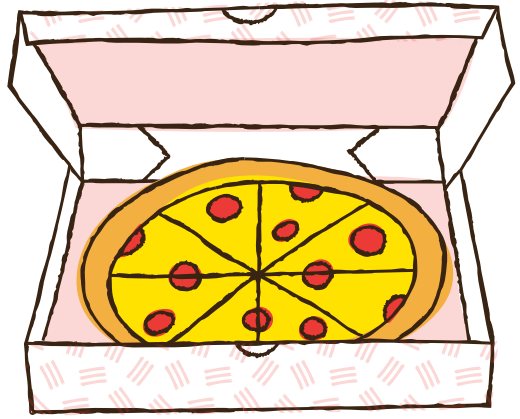
1. Retrieve the total number of orders placed.
2. Calculate the total revenue generated from pizza sales.
3. Identify the highest-priced pizza.
4. Identify the most common pizza size ordered.
5. List the top 5 most ordered pizza types along with their quantities.
6. Join the necessary tables to find the total quantity of each pizza category ordered.
7. Determine the distribution of orders by hour of the day.
8. Category-wise distribution of pizzas.



# Questions



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.
12. Analyze the cumulative revenue generated over time.
13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.



1. Retrieve the total number of orders placed.

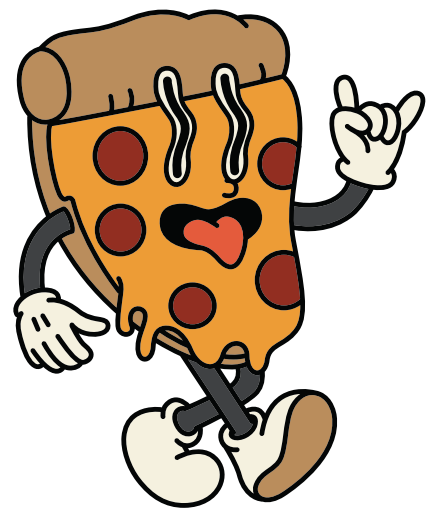
SELECT

COUNT(order\_id) AS total\_orders

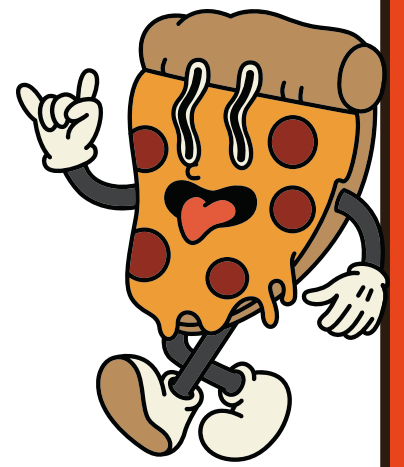
FROM

orders;

Result Grid	
	total_orders
▶	21350



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



SELECT

```
ROUND(SUM(order_details.quantity * pizzas.price),  
      2) AS total_sales
```

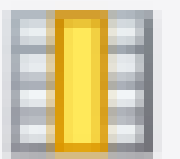
FROM

```
order_details
```

JOIN

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

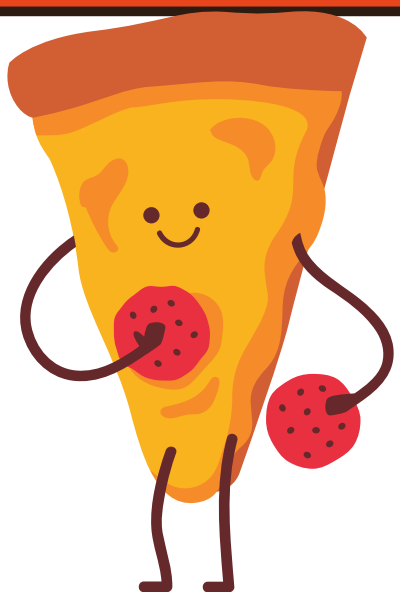
Result Grid



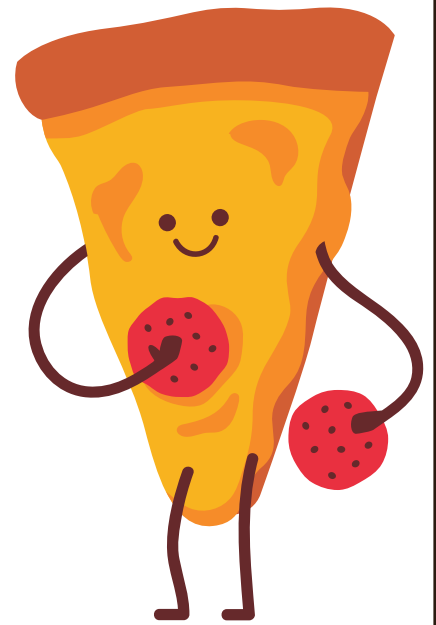
total\_sales



817860.05



### 3. 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	



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



SELECT

pizzas.size, COUNT(order\_details.order\_details\_id)

FROM

pizzas

JOIN

order\_details ON pizzas.pizza\_id = order\_details.pizza\_id

GROUP BY pizzas.size;

Result Grid			Filter Rows:
	size	COUNT(order_details.order_details_id)	
▶	M	15385	
	L	18526	
	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

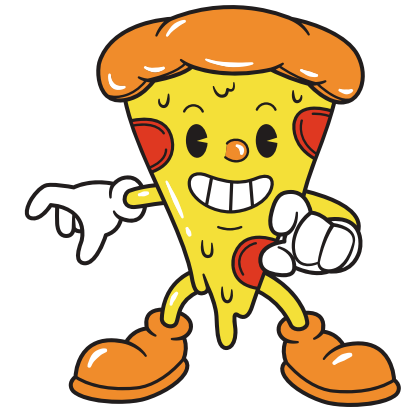
ORDER BY quantity DESC

LIMIT 5;

Result Grid			Filter Rows:
	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	



## 6. 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

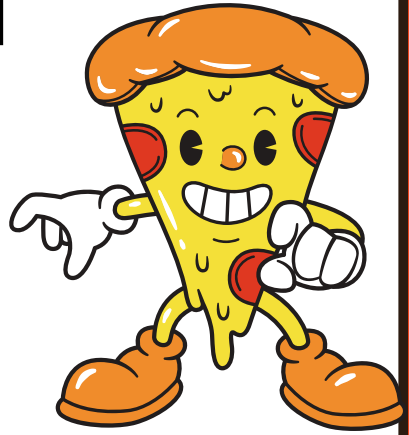
```
order_details ON order_details.pizza_id = pizzas.pizza_id
```

GROUP BY pizza\_types.category

ORDER BY quantity DESC;

Result Grid				
	category	quantity		
▶	Classic	14888		
	Supreme	11987		
	Veggie	11649		
	Chicken	11050		

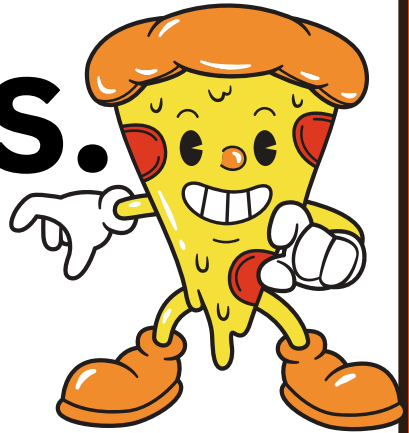
# 7.Determine the distribution of orders by hour of the day.



```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

Result Grid			Filter Row
	hour	order_count	
▶	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	

# 8. Category-wise distribution of pizzas.



```
SELECT
```

```
    category, COUNT(name)
```

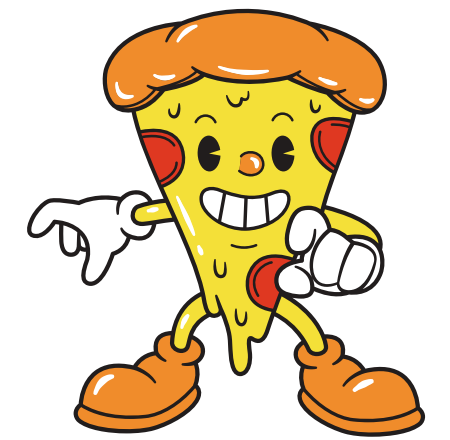
```
FROM
```

```
    pizza_types
```

```
GROUP BY category;
```

Result Grid			Filter Rows:
	category	COUNT(name)	
▶	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) as avg\_pizza\_ordered\_per\_day

FROM

(SELECT

orders.order\_date, SUM(order\_details.quantity) AS quantity

FROM

orders

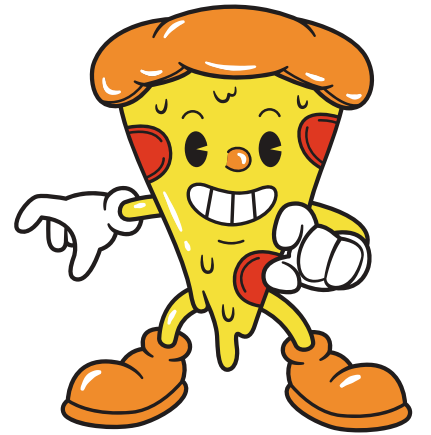
JOIN order\_details ON orders.order\_id = order\_details.order\_id

GROUP BY orders.order\_date) AS order\_quantity;

Result Grid |   Filter Rows:

	avg_pizza_ordered_per_day
▶	138

# 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 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 ;
```

Result Grid			Filter Rows:
	name	revenue	
▶	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	

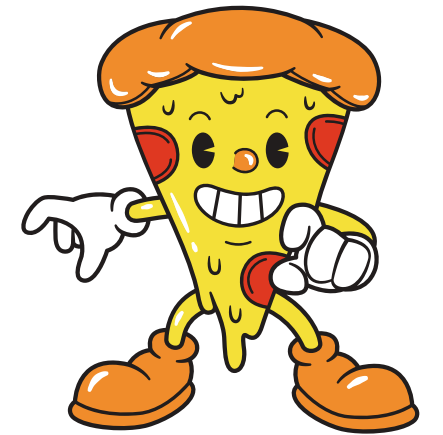
# 11. Calculate the percentage contribution of each pizza type to total revenue.



```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_sales
        FROM
            order_details
            JOIN
                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;
```

Result Grid			Filter
	category	revenue	
▶	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	

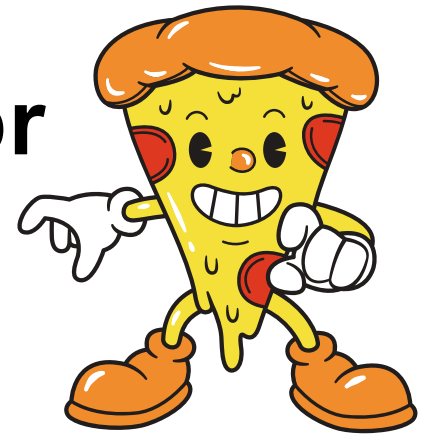
## 12. Analyze the cumulative revenue generated over time.



```
select order_date,  
sum(revenue) over (order by order_date) as cum_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 orders.order_id = order_details.order_id  
group by orders.order_date) as sales;
```

Result Grid			Filter Rows:
	order_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	34343.500000000001	
	2015-01-16	36937.650000000001	
	2015-01-17	39001.750000000001	

## 13. 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 rn
from
) (select pizza_types.category, 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.category, pizza_types.name) as a) as b
where rn <= 3;
```

Result Grid			Filter Rows:
	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	32265.700000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	