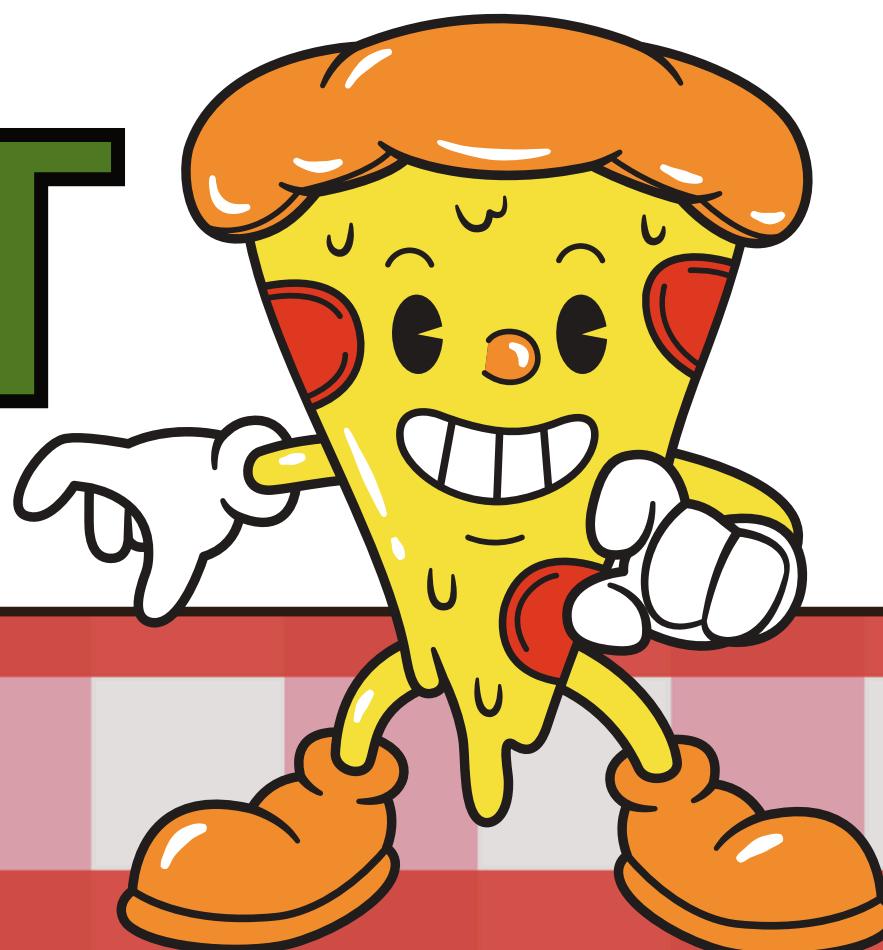


# PIZZA SALES

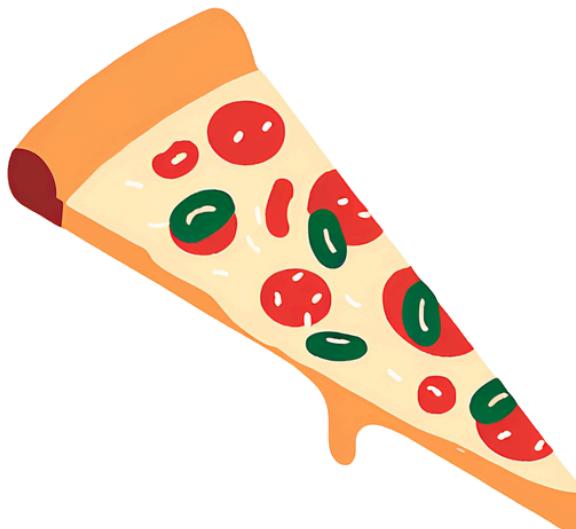
# SQL PROJECT



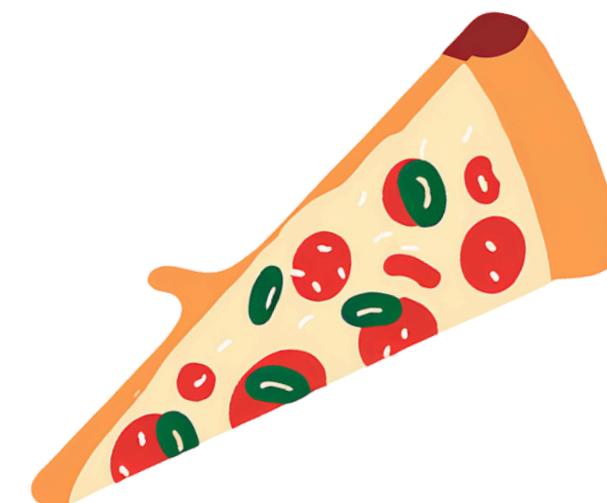
# Q-1

## Retrieve the total number of orders placed

```
select count(order_id) as total_orders from orders;
```



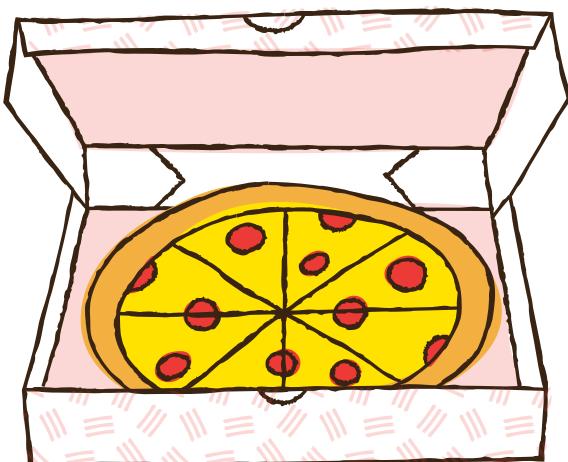
	total_orders
▶	21350



# Q-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

# Q-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



# Q-4

## Identify the most common pizza size ordered

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



Result Grid | Filter F

	size	order_count
▶	L	18526

# Q-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;
```

	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

# Q-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

# Q-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		
	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399

# Q-8

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



```
select count(pizza_type_id), category  
from pizza_types  
group by category
```

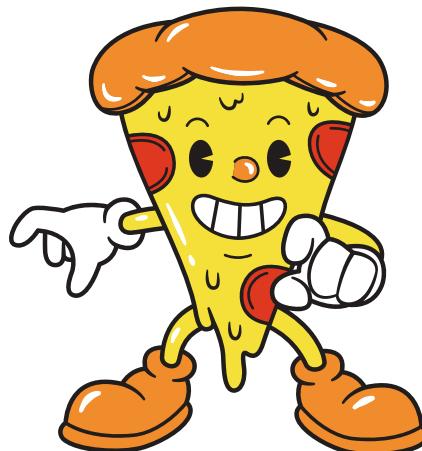
Result Grid | Filter Rows:

	count(pizza_type_id)	Category
▶	6	Chicken
	8	Classic
	9	Supreme
	9	Veggie

# Q-9

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

```
SELECT  
    ROUND(AVG(quantity), 0) AS average_pizzas_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;
```



average_pizzas_ordered_per_day
138



# Q-10

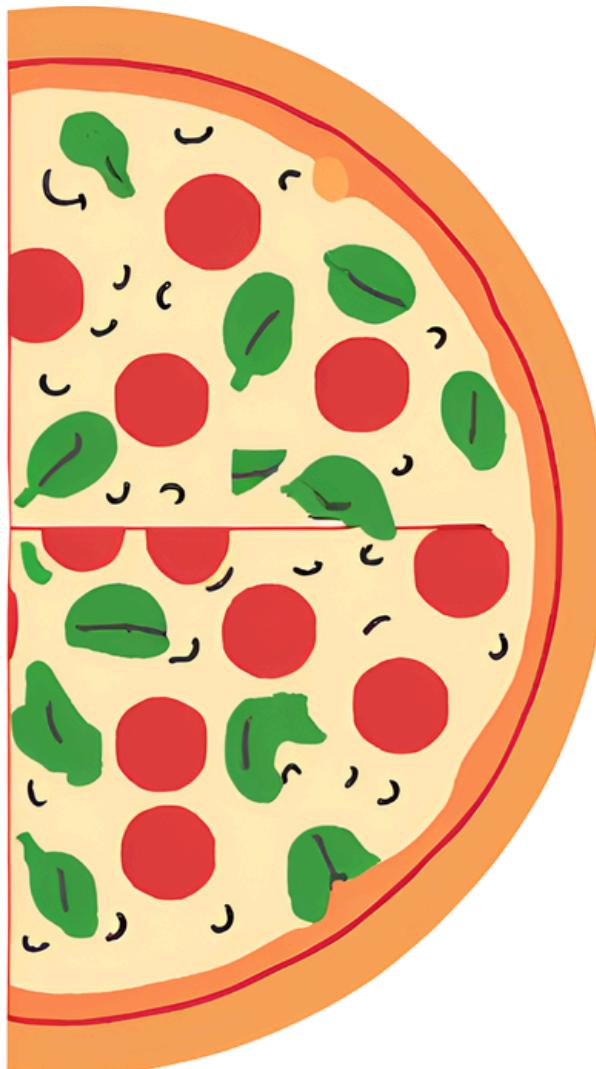
Determine the top 3 most ordered pizza types based on revenue

```
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

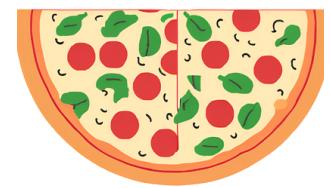
# Q-11

**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 order_details.pizza_id = pizzas.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
```

	category	Revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

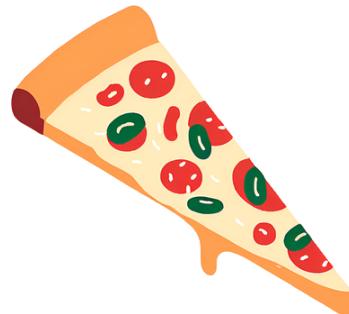


# Q-12

## 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
```

order_date	cum_revenue
2015-01-01	2713.850000000004
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



# Q-13

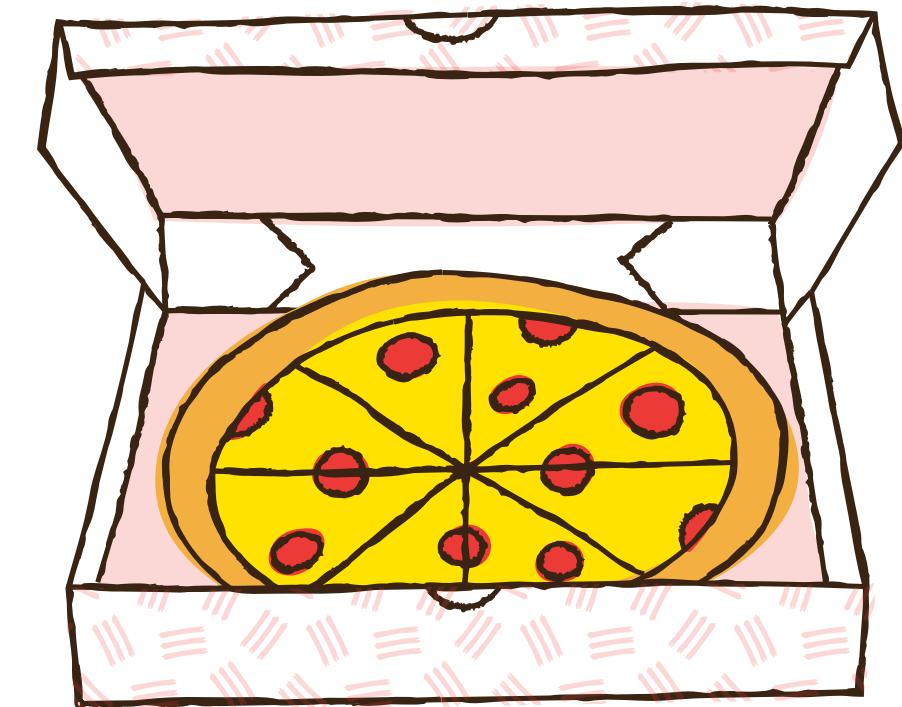
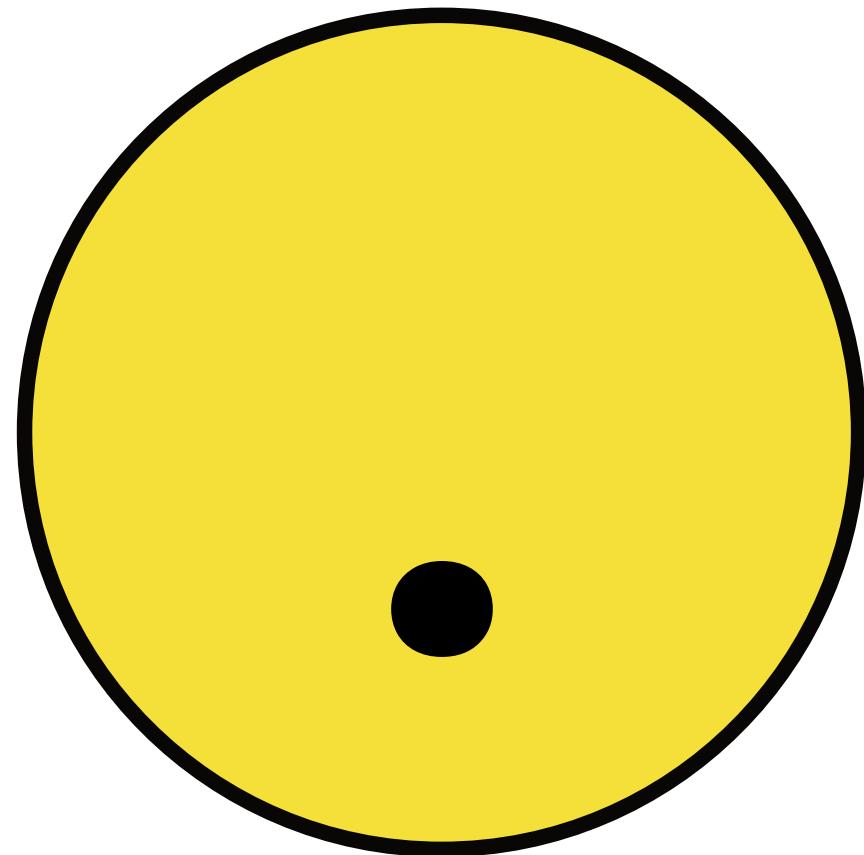
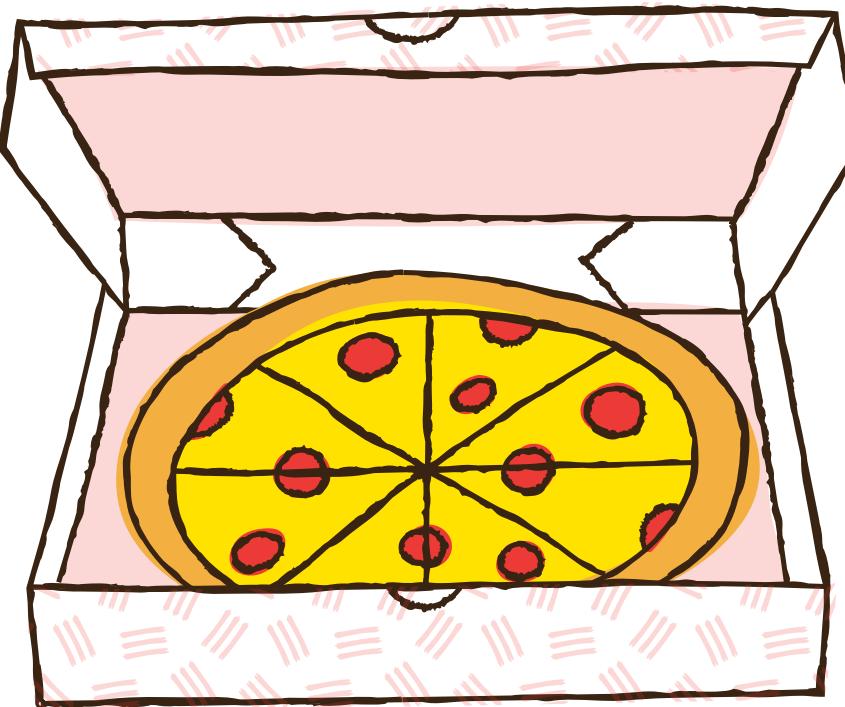
Determine the top 3 most ordered pizza types based on revenue for each pizza category

```
Select category, name, revenue, rank() over (partition by category order by revenue desc) rn
from
(Select category, name, revenue,
rank() over (partition by category order by revenue desc) rn
from
(select pizza_types.name, pizza_types.category,
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, pizza_types.category) AS a) b
where rn<=3
```

Result Grid | Filter Rows: | Export: | W

category	name	revenue	rn
Chicken	The Thai Chicken Pizza	43434.25	1
Chicken	The Barbecue Chicken Pizza	42768	2
Chicken	The California Chicken Pizza	41409.5	3
Classic	The Classic Deluxe Pizza	38180.5	1
Classic	The Hawaiian Pizza	32273.25	2
Classic	The Pepperoni Pizza	30161.75	3
Supreme	The Spicy Italian Pizza	34831.25	1
Supreme	The Italian Supreme Pizza	33476.75	2
Supreme	The Sicilian Pizza	30940.5	3
Veggie	The Four Cheese Pizza	32265.70000000065	1
Veggie	The Mexicana Pizza	26780.75	2
Veggie	The Five Cheese Pizza	26066.5	3

# full stop



Thank you for going through the project