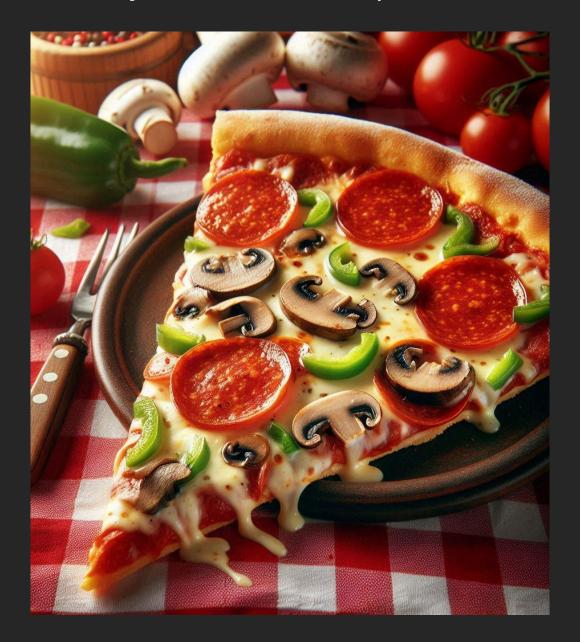


# How many orders have been placed in total?



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

	total_orders bigint
1	21350

## What is the total revenue generated?



SELECT ROUND(SUM(od.quantity \* p.price),2) AS total\_revenue
FROM pizzas p
JOIN order\_details od
ON p.pizza\_id = od.pizza\_id;

	total_revenue numeric
1	817860.05

## What is the average value of an order?



	avg_order_value numeric
1	38.31

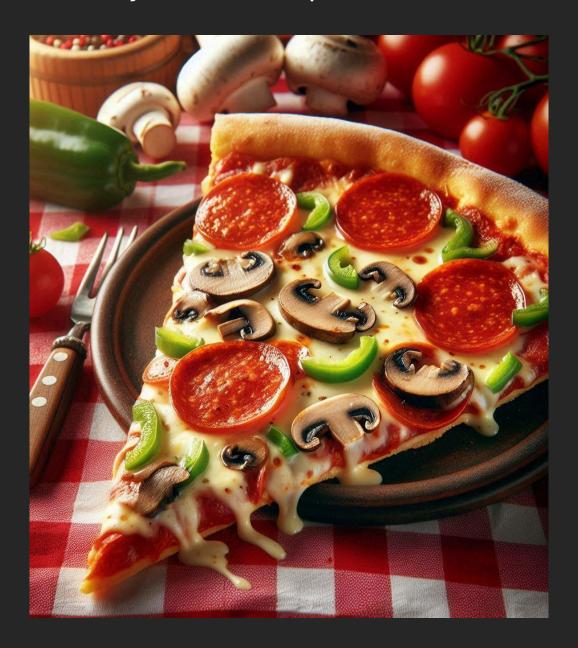
## Identify the highest-priced pizza



SELECT pt.name, p.price
FROM pizza\_type pt
JOIN pizzas p ON pt.pizza\_type\_id = p.pizza\_type\_id
ORDER BY p.price DESC
LIMIT 1;

	name character varying (255)	price numeric (10,2)
1	The Greek Pizza	35.95

## How many orders were placed each month?



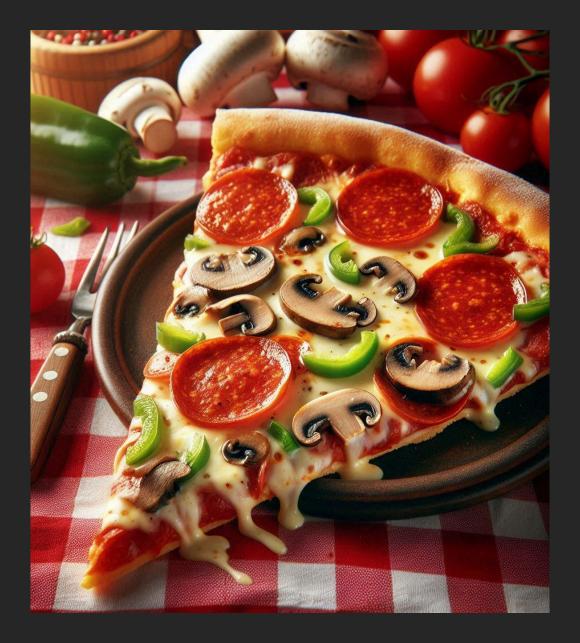
	months timestamp with time zone	total_orders bigint
1	2015-01-01 00:00:00+05:30	1845
2	2015-02-01 00:00:00+05:30	1685
3	2015-03-01 00:00:00+05:30	1840
4	2015-04-01 00:00:00+05:30	1799
5	2015-05-01 00:00:00+05:30	1853
6	2015-06-01 00:00:00+05:30	1773
7	2015-07-01 00:00:00+05:30	1935
8	2015-08-01 00:00:00+05:30	1841
9	2015-09-01 00:00:00+05:30	1661
10	2015-10-01 00:00:00+05:30	1646
11	2015-11-01 00:00:00+05:30	1792
12	2015-12-01 00:00:00+05:30	1680

### Which pizza size is ordered the most?



	pizza_size character varying (10)	total_quantity bigint
1	L	18956
2	М	15635
3	S	14403
4	XL	552
5	XXL	28

#### Total orders by each type of pizza?



	pizza_name character varying (255)	total_orders bigint
1	The Italian Vegetables Pizza	981
2	The Thai Chicken Pizza	2371
3	The Hawaiian Pizza	2422
4	The Pepperoni, Mushroom, and Peppers Pizza	1359
5	The Italian Supreme Pizza	1884
6	The Mexicana Pizza	1484
7	The Brie Carre Pizza	490
8	The Chicken Pesto Pizza	973
9	The Chicken Alfredo Pizza	987
10	The Pepper Salami Pizza	1446
11	The Big Meat Pizza	1914
12	The Napolitana Pizza	1464
13	The Four Cheese Pizza	1902
14	The Green Garden Pizza	997
15	The Barbecue Chicken Pizza	2432
16	The Southwest Chicken Pizza	1917

17	The Vegetables + Vegetables Pizza	1526
18	The Spinach Pesto Pizza	970
19	The Mediterranean Pizza	934
20	The Spinach and Feta Pizza	1446
21	The Pepperoni Pizza	2418
22	The Soppressata Pizza	961
23	The Five Cheese Pizza	1409
24	The California Chicken Pizza	2370
25	The Classic Deluxe Pizza	2453
26	The Greek Pizza	1420
27	The Calabrese Pizza	937
28	The Spinach Supreme Pizza	950
29	The Sicilian Pizza	1938
30	The Italian Capocollo Pizza	1438
31	The Prosciutto and Arugula Pizza	1457
32	The Spicy Italian Pizza	1924

#### Most ordered pizza type?



```
pt.category,
SUM(o.quantity) AS quantity_sold
FROM pizza_type AS pt
JOIN pizzas AS p
ON pt.pizza_type_id = p.pizza_type_id
JOIN order_details AS o
ON o.pizza_id = p.pizza_id
GROUP BY pt.category
ORDER BY quantity_sold DESC;
```

	category character varying (50)	quantity_sold bigint
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050

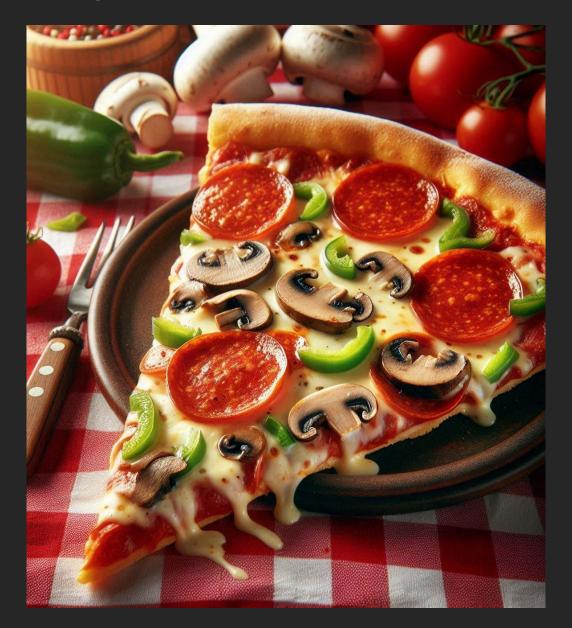
# What is the total revenue generated by each type of pizza?



SELECT pt.name AS pizza\_name,
SUM(od.quantity\*p.price) AS total\_revenue
FROM order\_details od
JOIN pizzas p
ON od.pizza\_id = p.pizza\_id
JOIN pizza\_type pt
ON p.pizza\_type\_id = pt.pizza\_type\_id
GROUP BY pt.name
ORDER BY total\_revenue DESC;

	pizza_name	total_revenue	17	The Vegetables + Vegetables Pizza	24374.75
	character varying (255)		18	The Prosciutto and Arugula Pizza	24193.25
1	The Thai Chicken Pizza	43434.25	19	The Napolitana Pizza	24087.00
2	The Barbecue Chicken Pizza	42768.00			
3	The California Chicken Pizza	41409.50	20	The Spinach and Feta Pizza	23271.25
4	The Classic Deluxe Pizza	38180.50	21	The Big Meat Pizza	22968.00
5	The Spicy Italian Pizza	34831.25	22	The Pepperoni, Mushroom, and Peppers Pizza	18834.50
6	The Southwest Chicken Pizza	34705.75	23	The Chicken Alfredo Pizza	16900.25
7	The Italian Supreme Pizza	33476.75	24	The Chicken Pesto Pizza	16701.75
8	The Hawaiian Pizza	32273.25	25	The Soppressata Pizza	16425.75
9	The Four Cheese Pizza	32265.70	26	The Italian Vegetables Pizza	16019.25
10	The Sicilian Pizza	30940.50	27	The Calabrese Pizza	15934.25
11	The Pepperoni Pizza	30161.75			
12	The Greek Pizza	28454.10	28	The Spinach Pesto Pizza	15596.00
13	The Mexicana Pizza	26780.75	29	The Mediterranean Pizza	15360.50
			30	The Spinach Supreme Pizza	15277.75
14	The Five Cheese Pizza	26066.50		· · ·	
15	The Pepper Salami Pizza	25529.00	31	The Green Garden Pizza	13955.75
16	The Italian Capocollo Pizza	25094.00	32	The Brie Carre Pizza	11588.50

#### Top 5 ingredient combinations used in pizzas?



```
SELECT pt.ingredients,

COUNT(od.order_id) AS most_used_ingredients

FROM pizza_type AS pt

JOIN pizzas AS p ON pt.pizza_type_id = p.pizza_type_id

JOIN order_details AS od ON od.pizza_id = p.pizza_id

GROUP BY pt.ingredients

ORDER BY most_used_ingredients DESC

LIMIT 5;
```

	ingredients text	most_used_ingredients bigint
1	Pepperoni, Mushrooms, Red Onions, Red Peppers, Bacon	2416
2	Barbecued Chicken, Red Peppers, Green Peppers, Tomatoes, Red Onions, Barbecue Sa	2372
3	Sliced Ham, Pineapple, Mozzarella Cheese	2370
4	Mozzarella Cheese, Pepperoni	2369
5	Chicken, Pineapple, Tomatoes, Red Peppers, Thai Sweet Chilli Sauce	2315

# Which category has the highest number of orders?



```
SELECT pt.category,

COUNT(DISTINCT od.order_id) AS total_orders

FROM pizza_type AS pt

JOIN pizzas AS p

ON pt.pizza_type_id = p.pizza_type_id

JOIN order_details AS od

ON p.pizza_id = od.pizza_id

GROUP BY pt.category

ORDER BY total_orders DESC;
```

	category character varying (50)	total_orders bigint
1	Classic	10859
2	Supreme	9085
3	Veggie	8941
4	Chicken	8536

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



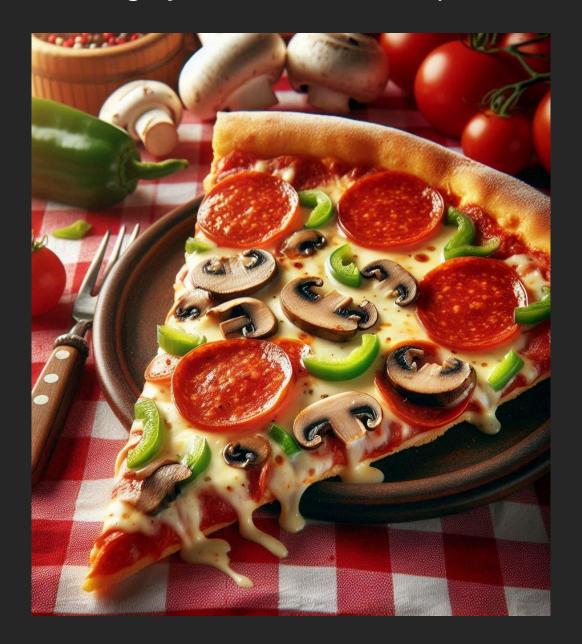
```
SELECT
EXTRACT(hour FROM order_time) AS order_hour,
COUNT(order_id) AS orders

FROM
orders
GROUP BY
order_hour

ORDER BY
order_hour;
```

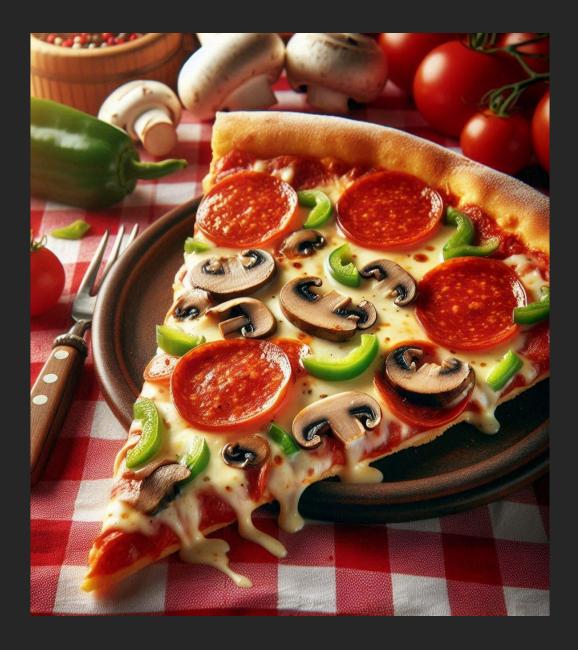
	order_hour numeric	orders bigint
1	9	1
2	10	8
3	11	1231
4	12	2520
5	13	2455
6	14	1472
7	15	1468
8	16	1920
9	17	2336
10	18	2399
11	19	2009
12	20	1642
13	21	1198
14	22	663
15	23	28

## Category wise distribution of pizzas



	category character varying (50)	pizza_count bigint
1	Supreme	9
2	Veggie	9
3	Classic	8
4	Chicken	6

#### Average quantity of pizza ordered each day.



```
ROUND(AVG(total_orders_per_day),2) AS avg_quantity_ordered

FROM (SELECT

DATE_TRUNC('day', o.order_date) AS day,

SUM(od.quantity) AS total_orders_per_day

FROM orders AS o

JOIN order_details AS od

ON o.order_id = od.order_id

GROUP BY day
);
```

	avg_quantity_ordered numeric
1	138.47

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



```
WITH total_revenue AS(
     SELECT
         SUM (od.quantity*p.price) AS revenue
     FROM pizzas AS p
     JOIN order_details AS od
     ON p.pizza_id = od.pizza_id
    category_wise_revenue AS (
      SELECT
         pt.category,
          SUM(od.quantity*p.price) AS categorical_revenue
      FROM order_details AS od
      JOIN pizzas AS p
      ON od.pizza_id = p.pizza_id
      JOIN pizza_type AS pt
      ON pt.pizza_type_id = p.pizza_type_id
      GROUP BY pt.category
SELECT
    cwr.category,
    ROUND((cwr.categorical_revenue/tr.revenue) *100,2) AS percentage_revenue_of_category
FROM total_revenue AS tr
CROSS JOIN category_wise_revenue AS cwr
ORDER BY percentage_revenue_of_category DESC;
```

	category character varying (50)	percentage_revenue_of_category numeric
1	Classic	26.91
2	Supreme	25.46
3	Chicken	23.96
4	Veggie	23.68

# Analyse the cumulative revenue generated over time.



```
SELECT order_month,
    SUM(revenue) OVER(ORDER BY order_month) AS cumulative_sum_revenue
FROM(

SELECT TO_CHAR(DATE_TRUNC('month', o.order_date), 'YYYY-MM') AS order_month,
    SUM(od.quantity * p.price) AS revenue
FROM order_details AS od
JOIN pizzas AS p
ON od.pizza_id = p.pizza_id
JOIN orders AS o
ON o.order_id = od.order_id
GROUP BY order_month);
```

	order_month text	numeric eum_revenue
1	2015-01	69793.30
2	2015-02	134952.90
3	2015-03	205350.00
4	2015-04	274086.80
5	2015-05	345489.55
6	2015-06	413719.75
7	2015-07	486277.65
8	2015-08	554555.90
9	2015-09	618735.95
10	2015-10	682763.55
11	2015-11	753158.90
12	2015-12	817860.05

# Determine the Top 3 most ordered pizza type based on revenue for each pizza category.



	pizza_name character varying (255)	pizza_category character varying (50)	numeric 6
1	The Thai Chicken Pizza	Chicken	43434.25
2	The Barbecue Chicken Pizza	Chicken	42768.00
3	The California Chicken Pizza	Chicken	41409.50
4	The Classic Deluxe Pizza	Classic	38180.50
5	The Hawaiian Pizza	Classic	32273.25
6	The Pepperoni Pizza	Classic	30161.75
7	The Spicy Italian Pizza	Supreme	34831.25
8	The Italian Supreme Pizza	Supreme	33476.75
9	The Sicilian Pizza	Supreme	30940.50
10	The Four Cheese Pizza	Veggie	32265.70
11	The Mexicana Pizza	Veggie	26780.75
12	The Five Cheese Pizza	Veggie	26066.50

