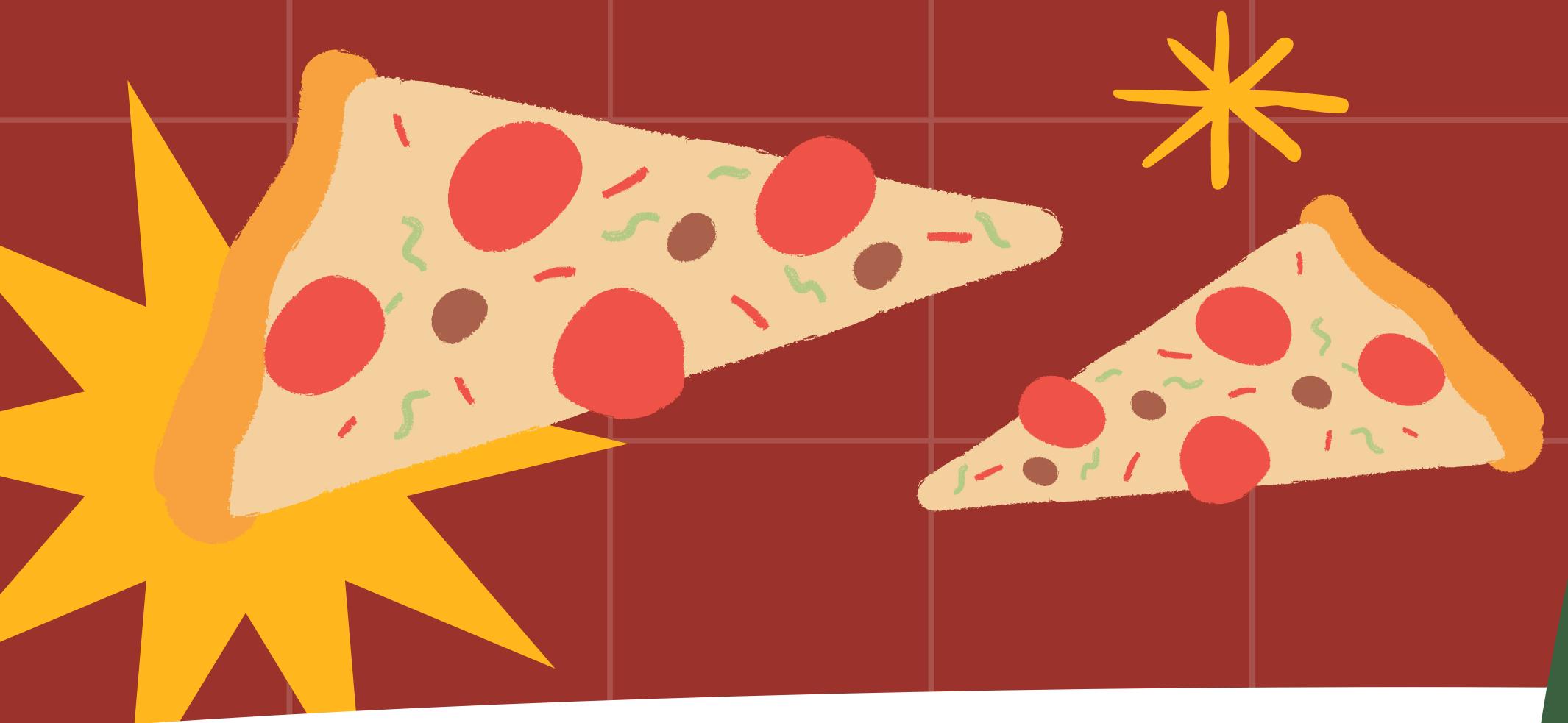


PIZZA SALES PROJECT



A cartoon illustration of two children against a red background with yellow starburst patterns. On the left, a girl with dark hair and round glasses wears a yellow jacket over a green shirt. She is smiling and has her arm around a boy. The boy, wearing a green cap and a yellow striped shirt, is also smiling and holding a slice of pizza with several holes in it. The background features a grid pattern and three yellow starburst shapes.

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INTRODUCTION

My name is Alberto Sanchez and for this project, I used MySQL Server 2019 to run the queries along with Excel to retrieve all the information.

Let's dive in!

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

total_orders ✓
= 21350

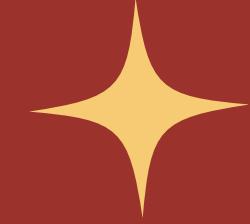


CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
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
```

=

total_sales ✓
817860.05



IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
    TOP 1 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
```

	name	▼	price	▼
1	The Greek Pizza		35.95	



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
```

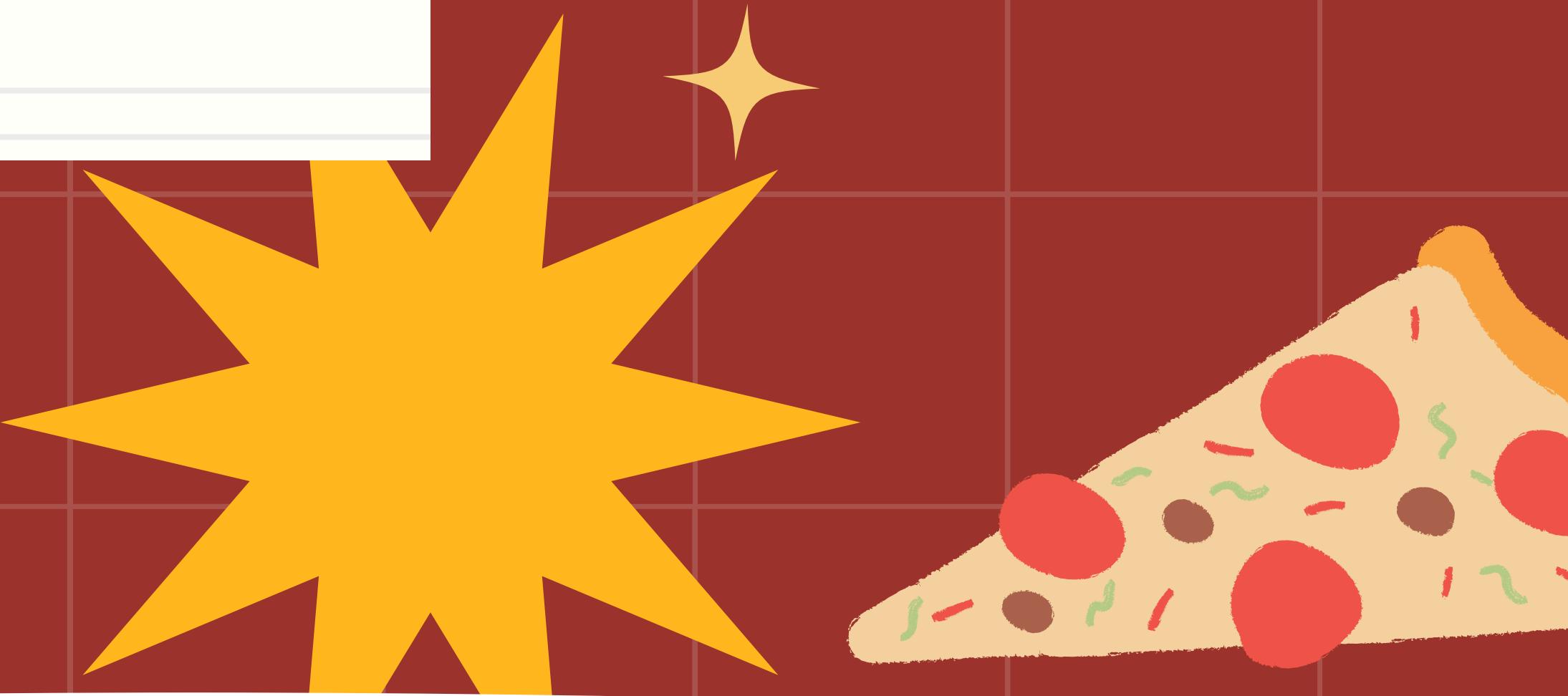
	size	order_count
1	L	18526
2	M	15385
3	S	14137
4	XL	544
5	XXL	28



LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT TOP 5
    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
```

	name	quantity
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371



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
```

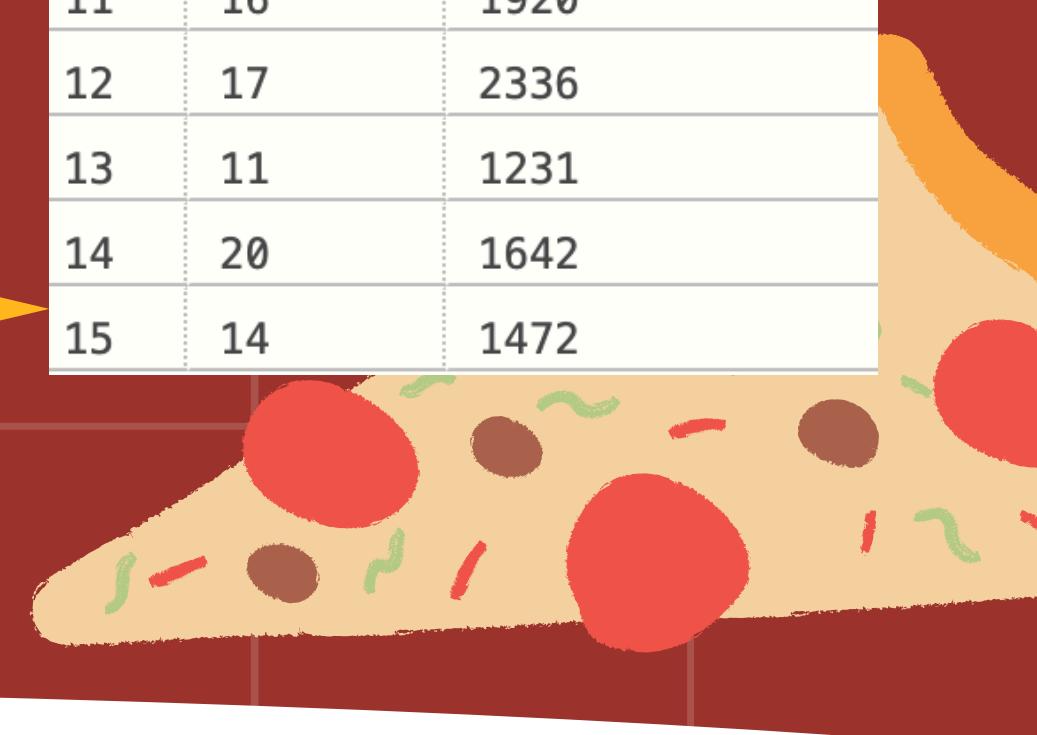
	category	quantity
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT DATEPART(HH, [time]) AS hour, COUNT(order_id) AS order_count  
FROM orders  
GROUP BY DATEPART(HH, [time])
```

hour	order_count
1	28
2	1468
3	1
4	2520
5	1198
6	2399
7	8
8	2009
9	2455
10	663
11	1920
12	2336
13	1231
14	1642
15	1472



JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT category, COUNT(name) AS count_category  
FROM pizza_types  
GROUP BY category
```

	category	count_category
1	Chicken	6
2	Classic	8
3	Supreme	9
4	Veggie	9



GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT AVG(quantity) AS avg_pizza_ordered_per_day
FROM
  (SELECT orders.date, SUM(order_details.quantity) AS quantity
  FROM orders JOIN order_details
  ON orders.order_id = order_details.order_id
  GROUP BY orders.date) AS order_quantity
```

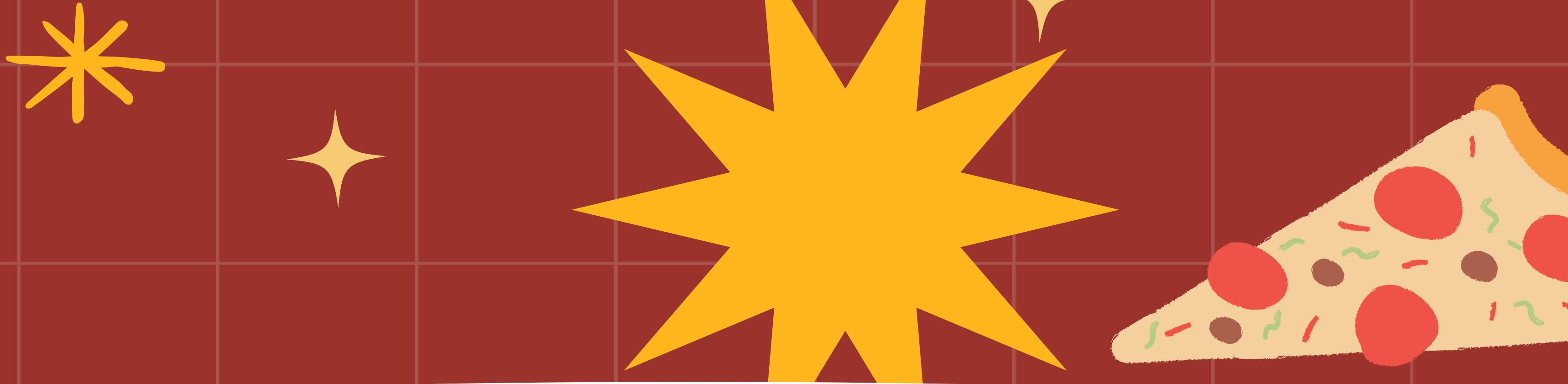
	avg_pizza_ordered_per_day
1	138



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT TOP 3
    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
```

	name	revenue
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5



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), 2) *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
```

	category	revenue
1	Classic	27
2	Supreme	25
3	Veggie	24
4	Chicken	24



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
SELECT date, SUM(revenue) OVER (ORDER BY date) AS cum_revenue
FROM
  (SELECT orders.[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.[date]) AS sales
```

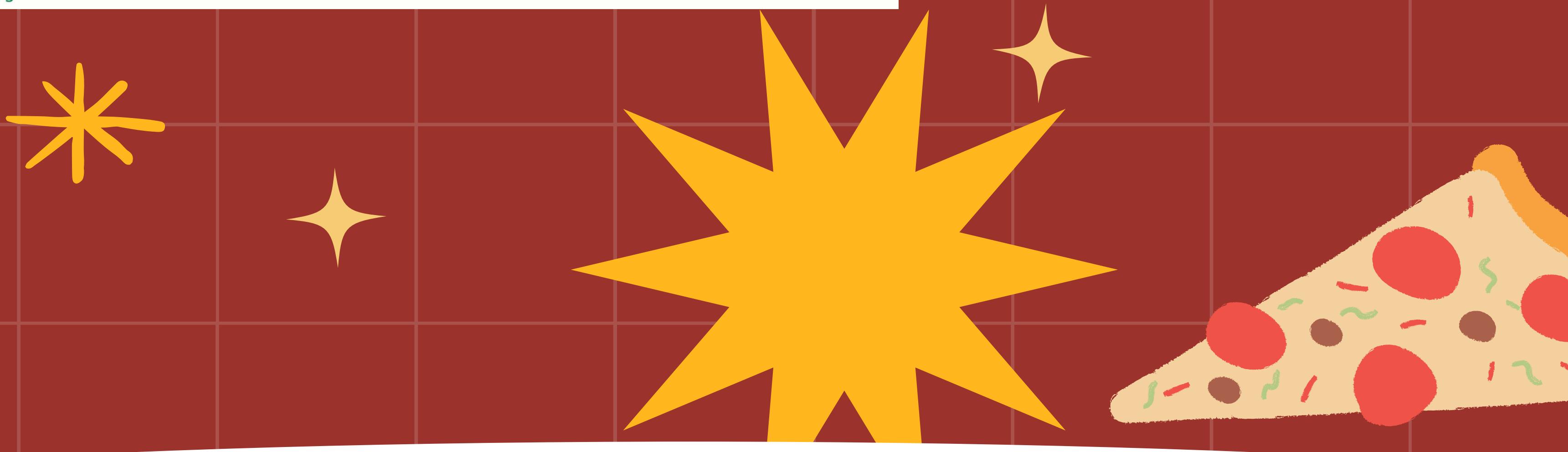
	date	cum_revenue
1	2015-01-01	2713.850000000004
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.6
5	2015-01-05	11929.55
6	2015-01-06	14358.5
7	2015-01-07	16560.7
8	2015-01-08	19399.05
9	2015-01-09	21526.4
10	2015-01-10	23990.35000000002
11	2015-01-11	25862.65
12	2015-01-12	27781.7
13	2015-01-13	29831.30000000003
14	2015-01-14	32358.70000000004
15	2015-01-15	34343.5000000001
16	2015-01-16	36937.6500000001
17	2015-01-17	39001.7500000001
18	2015-01-18	40978.60000000006



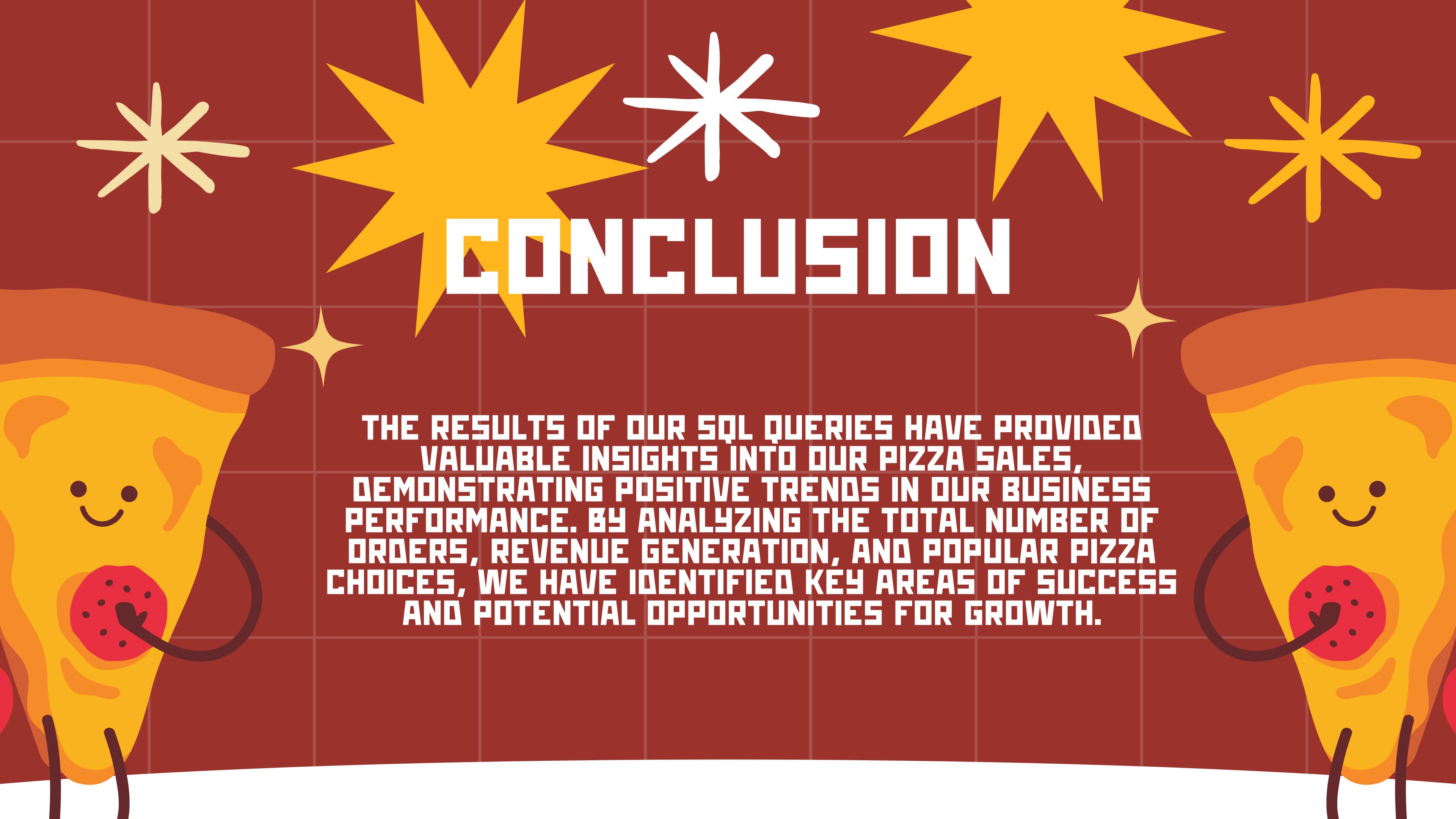
DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
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
```

	name	revenue
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5



CONCLUSION



THE RESULTS OF OUR SQL QUERIES HAVE PROVIDED VALUABLE INSIGHTS INTO OUR PIZZA SALES, DEMONSTRATING POSITIVE TRENDS IN OUR BUSINESS PERFORMANCE. BY ANALYZING THE TOTAL NUMBER OF ORDERS, REVENUE GENERATION, AND POPULAR PIZZA CHOICES, WE HAVE IDENTIFIED KEY AREAS OF SUCCESS AND POTENTIAL OPPORTUNITIES FOR GROWTH.

THESE QUERIES HAVE ENABLED US TO:

- Measure overall sales performance and revenue.
- Identify best-selling pizzas and their sizes.
- Understand customer preferences and ordering patterns.
- Gain insights into hourly and daily sales distributions.



THANK YOU

to WsCube Tech for the provided
dataset and guidance