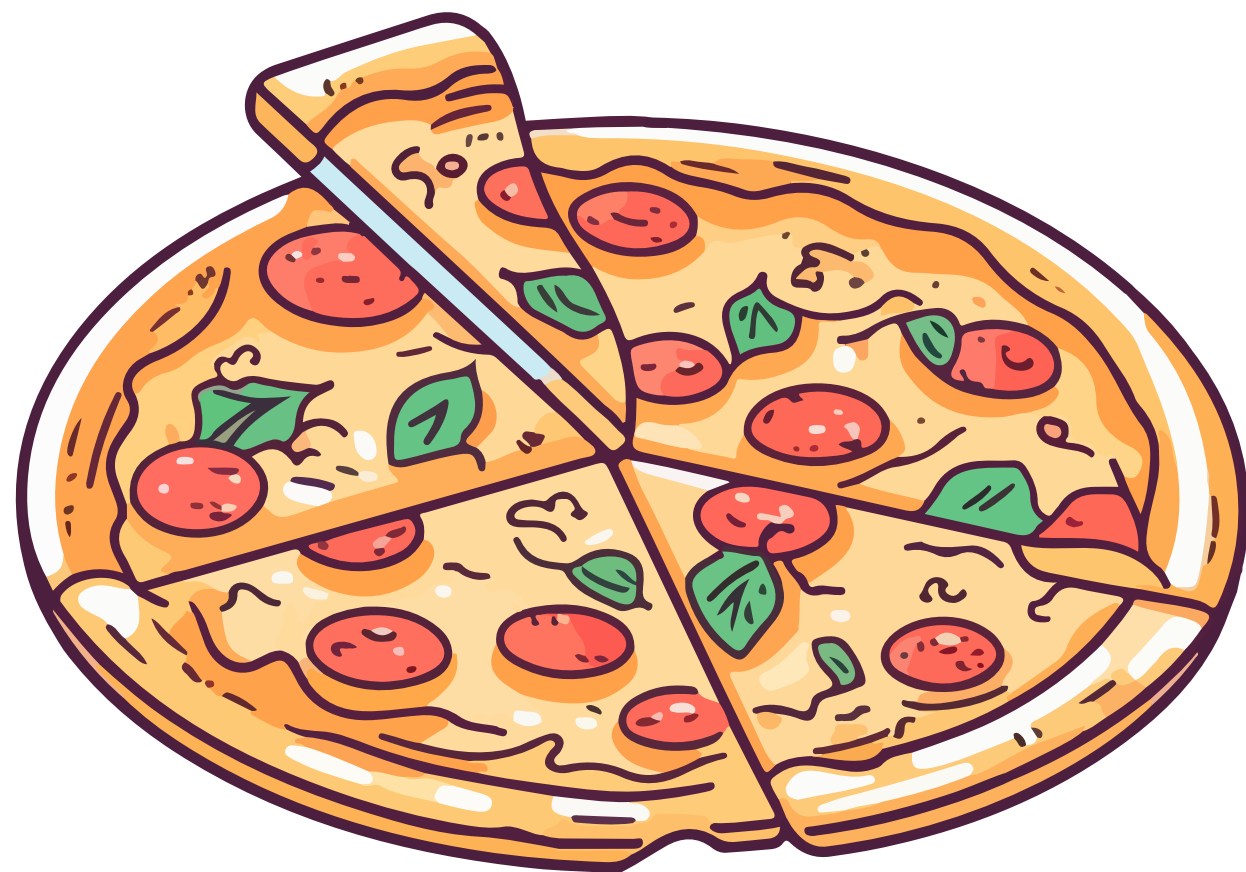


# PIZZA SALES PROJECT USING MYSQL

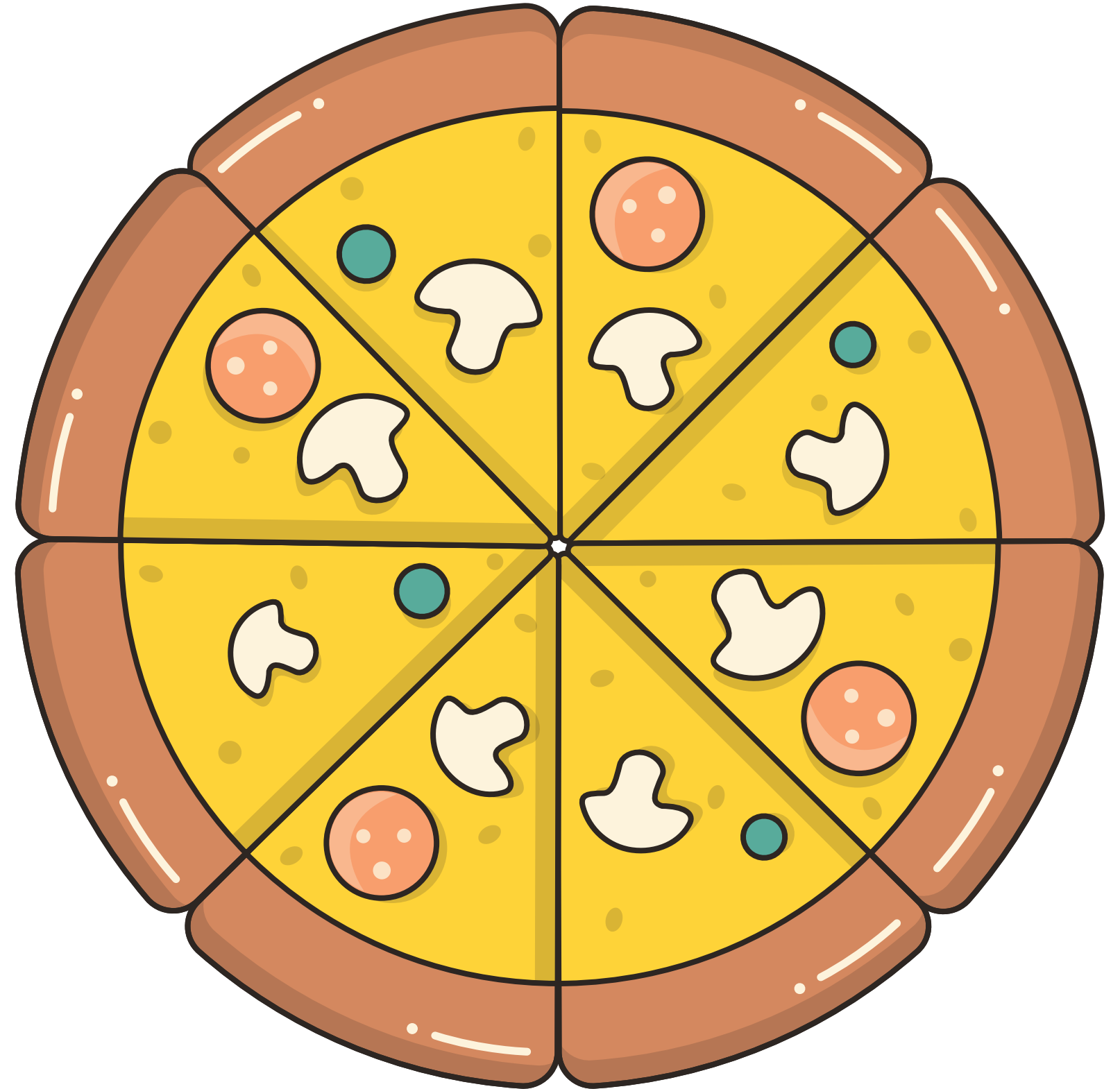
# ABOUT THE PROJECT



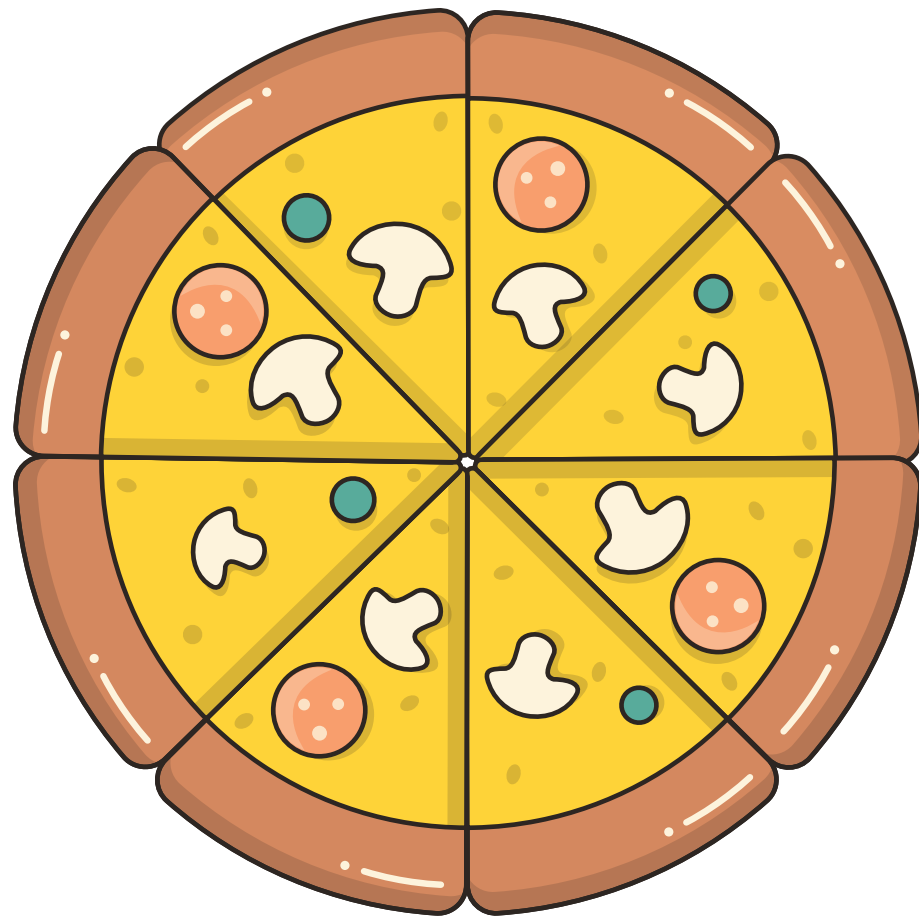
**HANDS-ON SQL  
PORTFOLIO PROJECT  
USING A PIZZA SALES  
DATASET THROUGH  
MYSQL. COVERS DATA  
CLEANING, AGGREGATION,  
JOINS, AND REAL-WORLD  
BUSINESS ANALYSIS.**

1

**Retrieve the  
total number  
of orders  
placed.**



# ANSWER



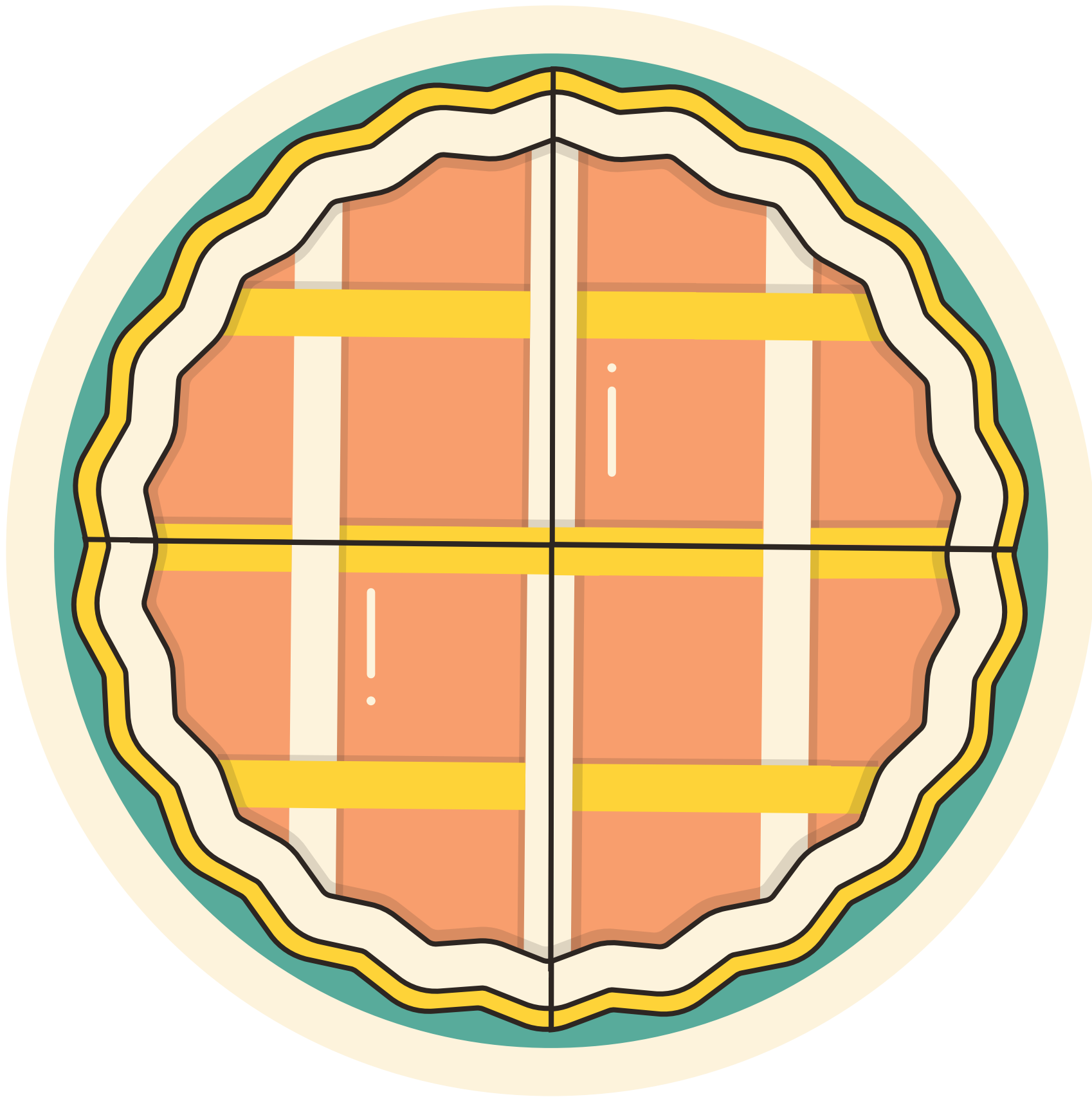
```
1  -- Retrieve the total number of orders placed.
2
3 • SELECT
4     COUNT(order_id) AS totalt_num_oder
5 FROM
6     orders
```

Result Grid

	totalt_num_oder
▶	21350

2

**Calculate the  
total Revenue  
generated  
from pizza  
sales**



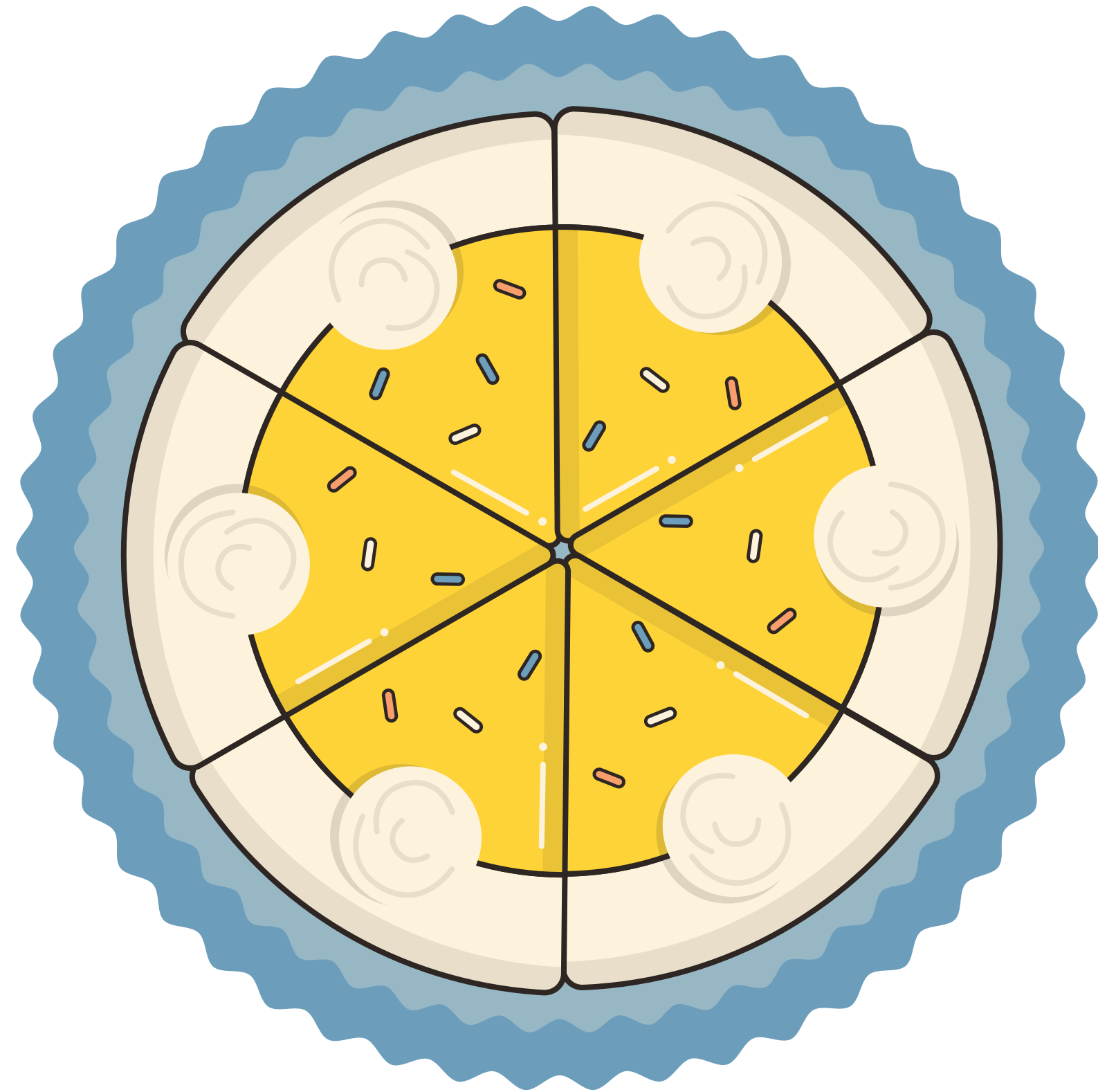
# ANSWER

```
1  -- Calculate the total Revenue generated from pizza sales
2 • SELECT
3      ROUND(SUM(order_details.quantity * pizzas.price),
4              2) AS total_revenue
5  FROM
6      order_details
7      JOIN
8      pizzas ON order_details.pizza_id = pizzas.pizza_id
```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	ROUND(SUM(order_details.quantity * pizzas.price), 2)
▶	817860.05

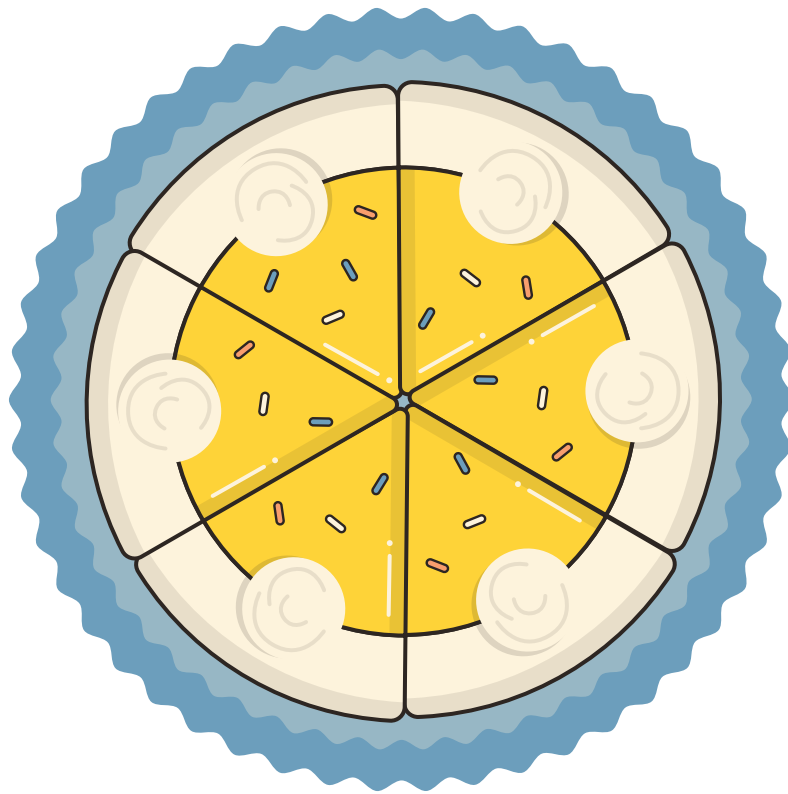
3



**Identify the  
highest priced  
pizza.**



# ANSWER



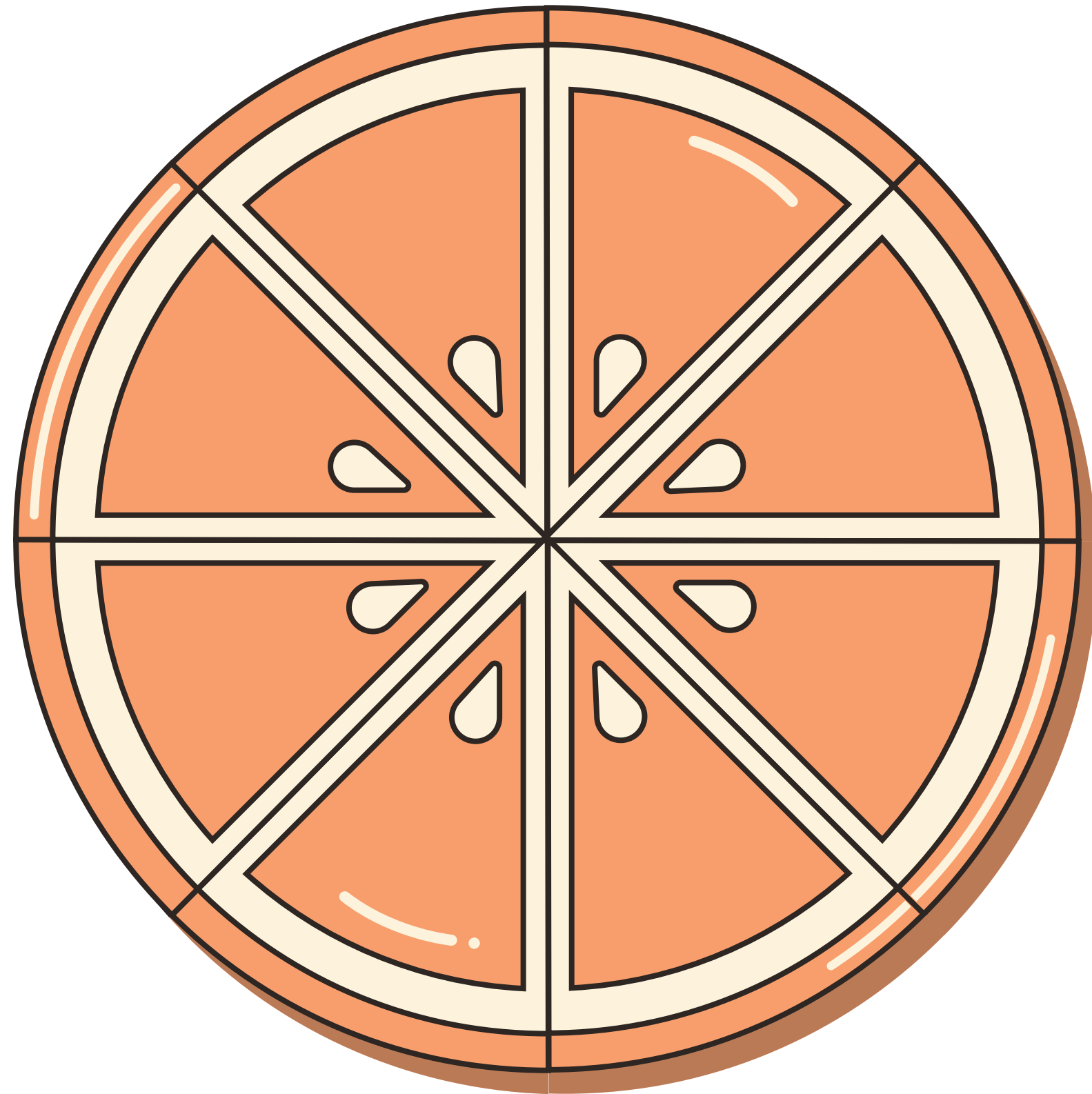
```
1  -- Identify the highest priced pizza
2
3  • SELECT
4      pizza_types.name, pizzas.price
5  FROM
6      pizza_types
7      JOIN
8      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9  ORDER BY pizzas.price DESC
10 LIMIT 1
```

Result Grid

	name	price
▶	The Greek Pizza	35.95

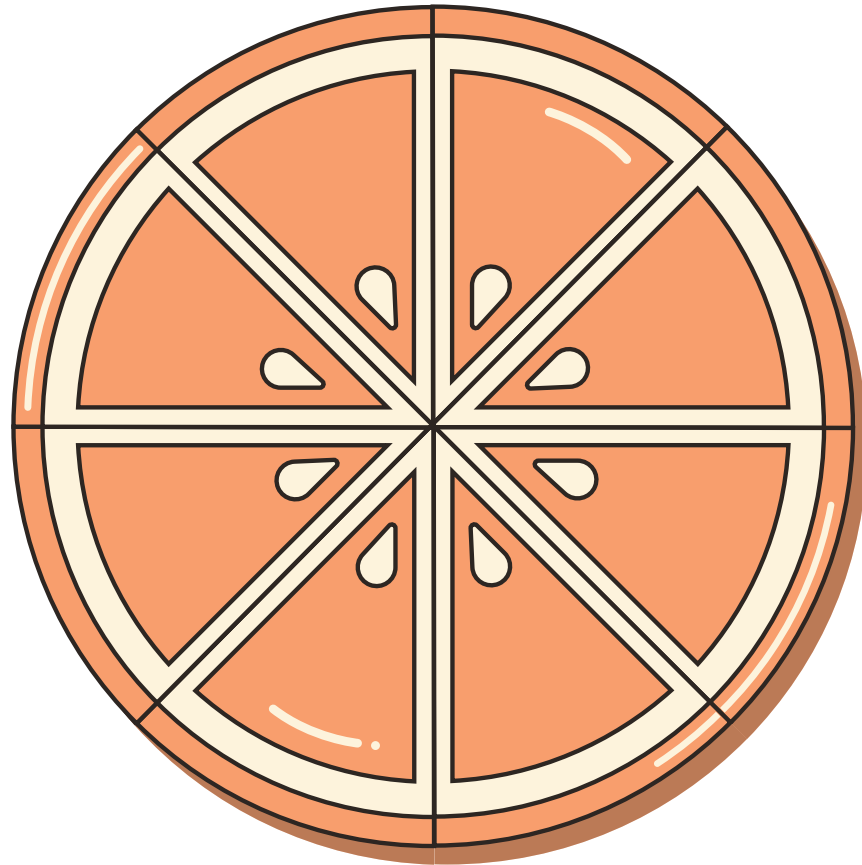


4



**Identify the  
most common  
pizza size  
ordered**

# ANSWER

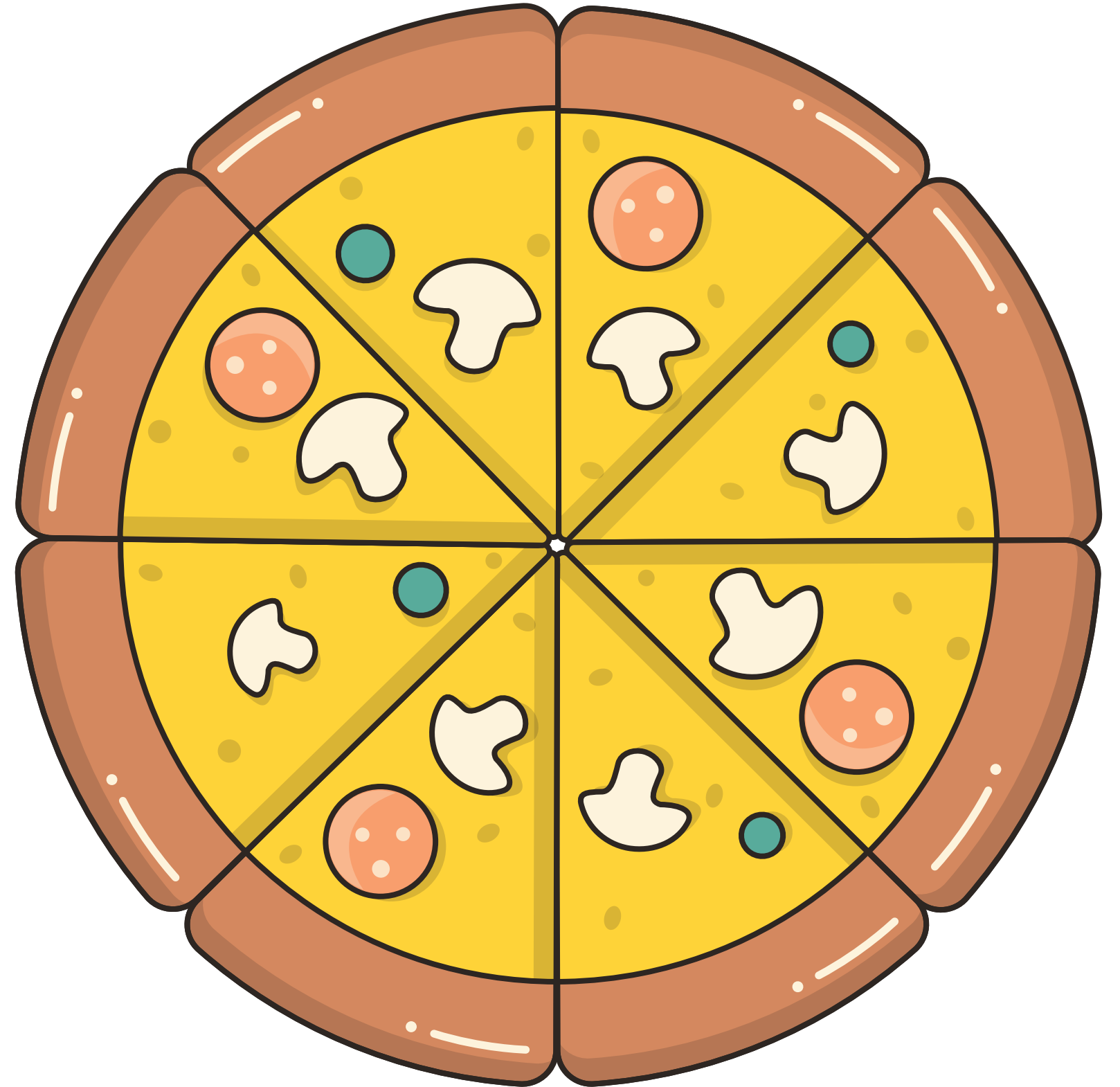


```
1  -- Identify the most common pizza size ordered
2
3  • SELECT
4      pizzas.size,
5      COUNT(order_details.order_details_id) AS order_count
6  FROM
7      pizzas
8      JOIN
9      order_details ON pizzas.pizza_id = order_details.pizza_id
10 GROUP BY pizzas.size
11 ORDER BY order_count DESC
12 LIMIT 1;
```

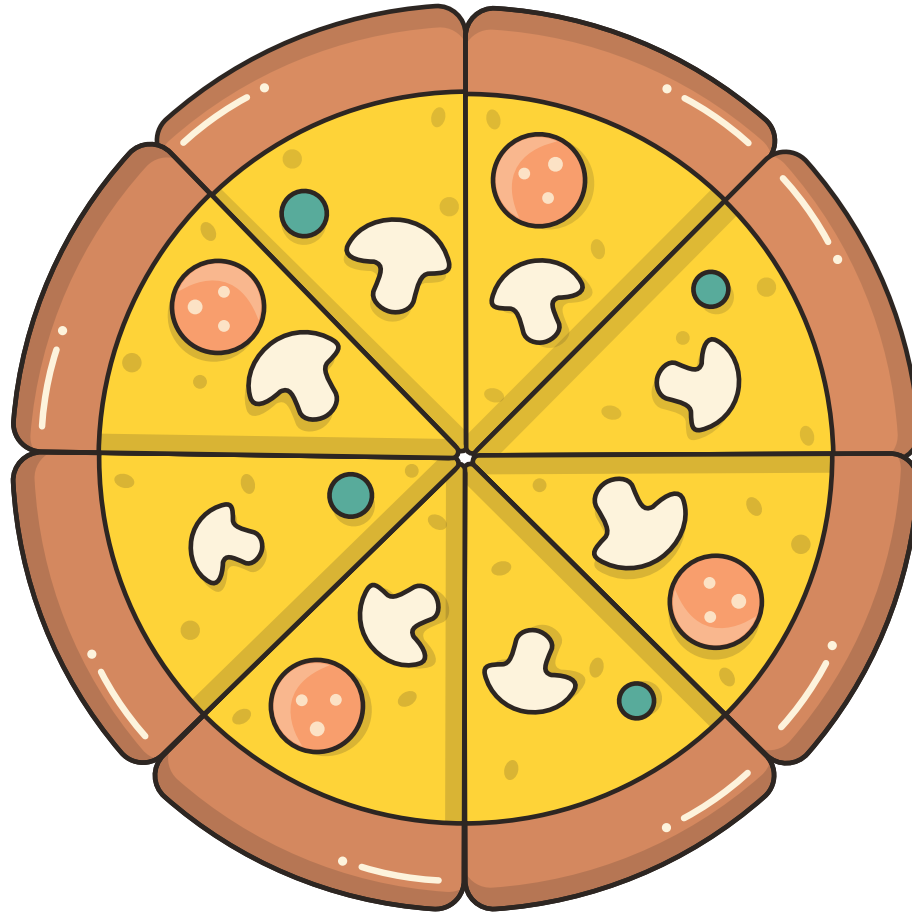
Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
size	order_count			
L	18526			

**5**

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



# ANSWER

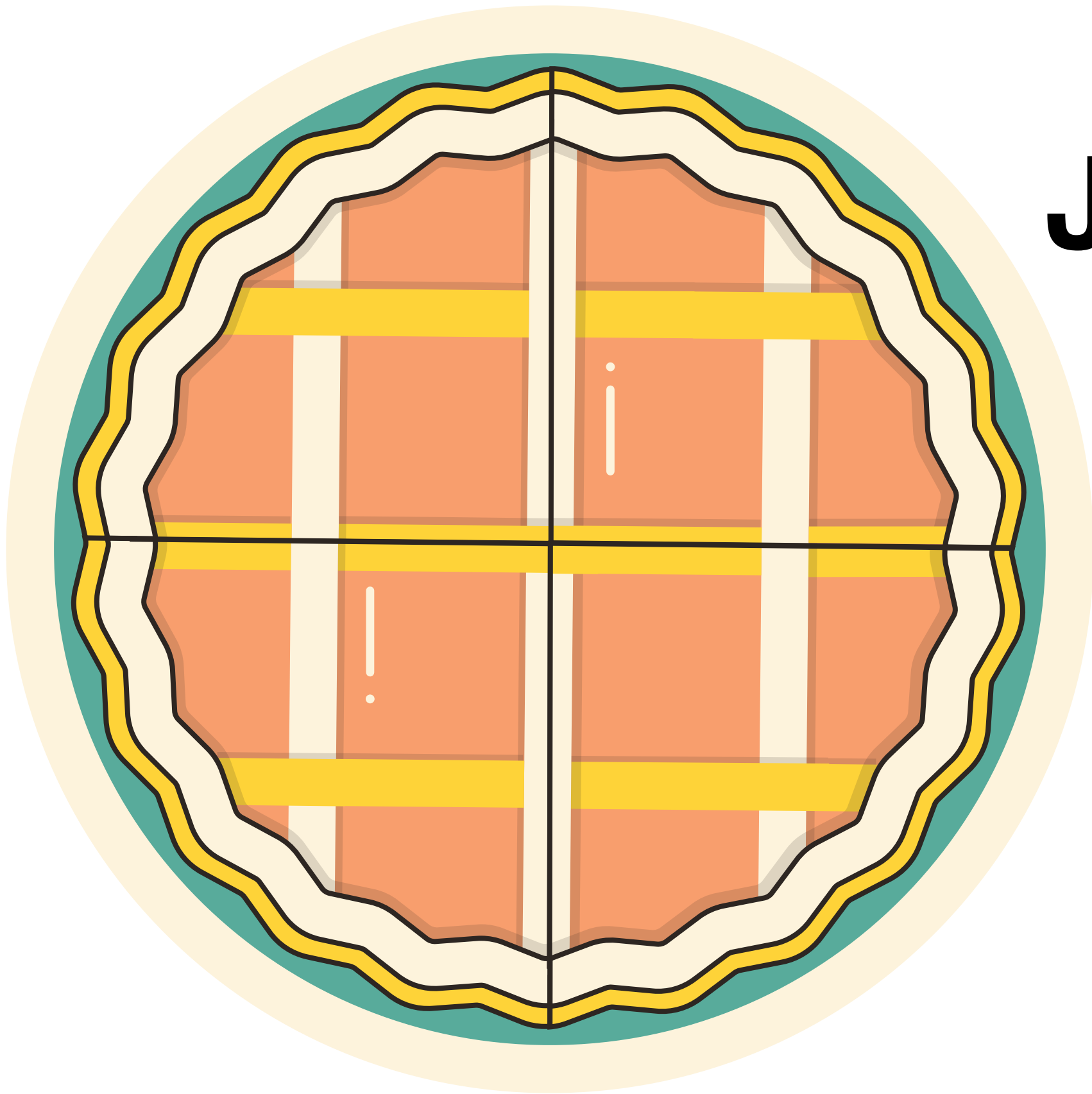


```
1  -- List the top 5 most ordered pizza types along with their quantities
2
3  • SELECT
4      pizza_types.name, SUM(order_details.quantity) AS quantity
5  FROM
6      pizza_types
7      JOIN
8      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9      JOIN
10     order_details ON order_details.pizza_id = pizzas.pizza_id
11  GROUP BY pizza_types.name
12  ORDER BY quantity DESC
13  LIMIT 5;
```

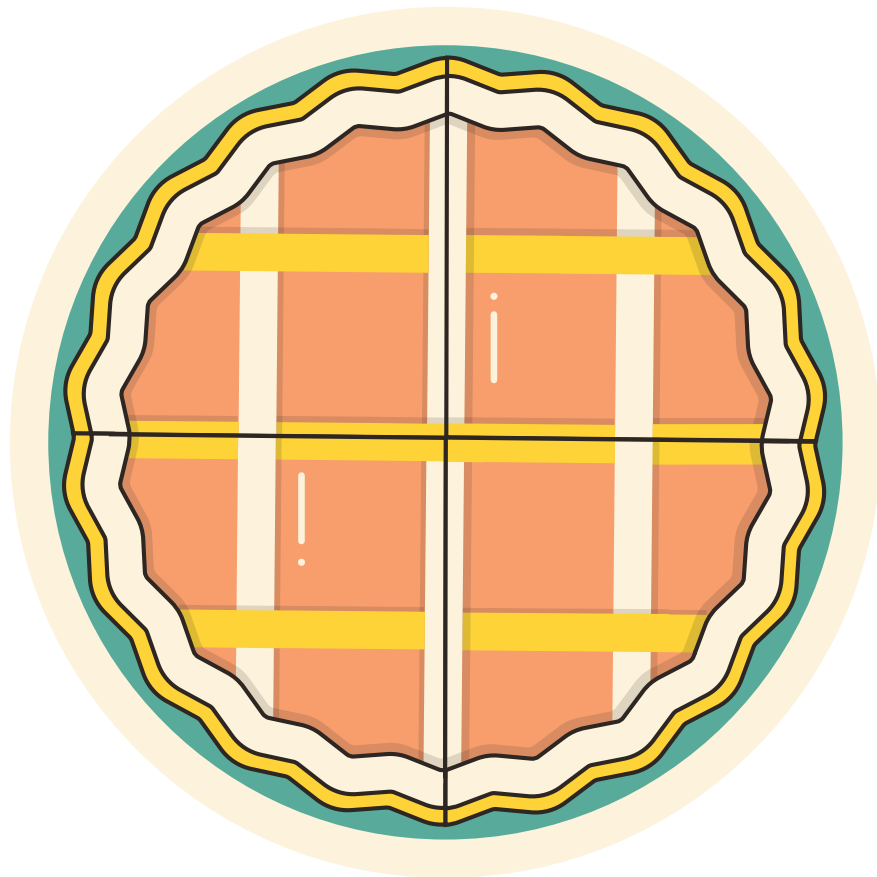
Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	name	quantity		
▶	The Classic Deluxe Pizza	2453		
	The Barbecue Chicken Pizza	2432		
	The Hawaiian Pizza	2422		
	The Pepperoni Pizza	2418		
	The Thai Chicken Pizza	2371		

6

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



# ANSWER

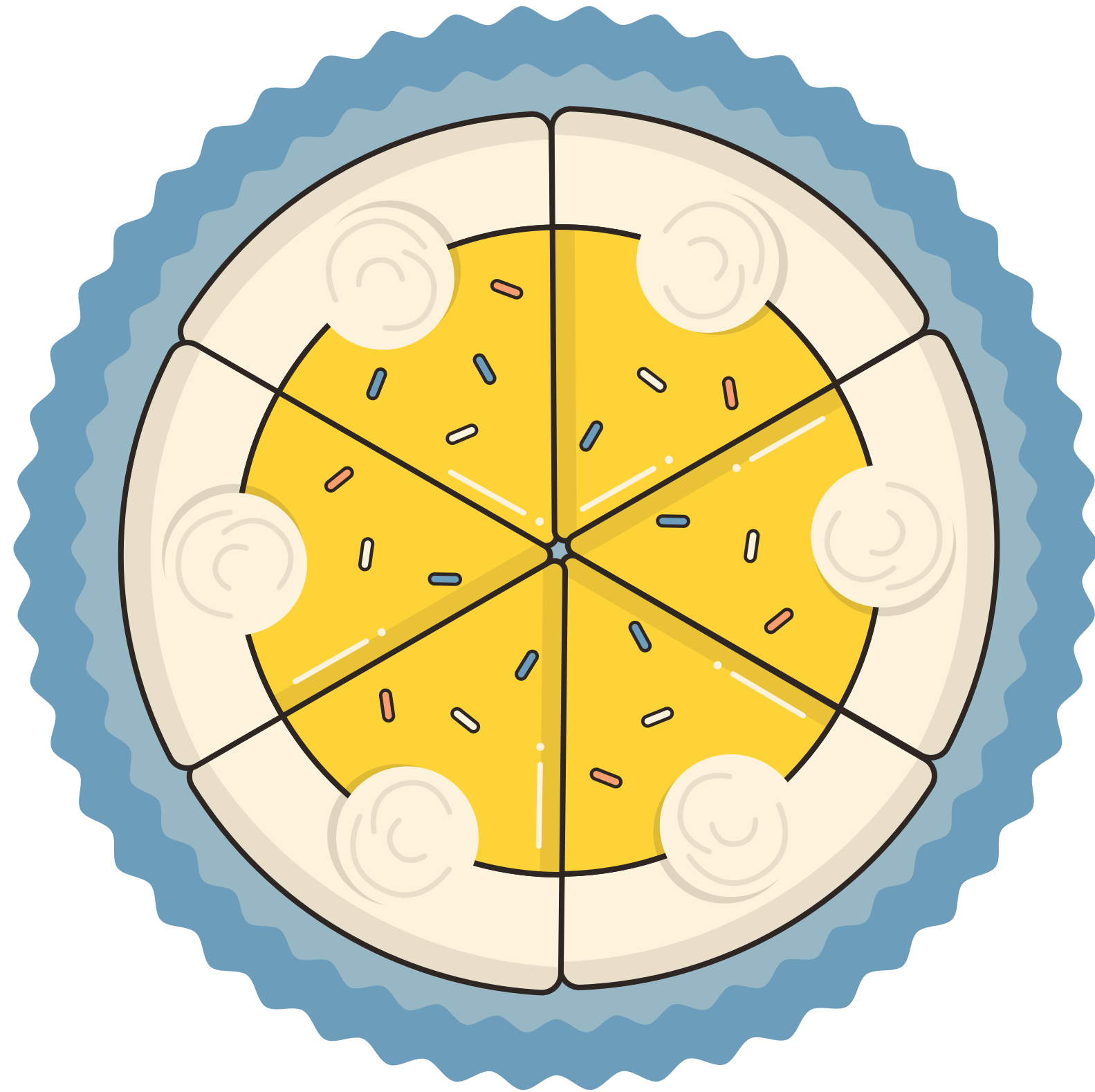


```
1  -- Join the necessary tables to find the total quantity of each pizza category ordered.
2
3  • SELECT
4      pizza_types.category,
5      SUM(order_details.quantity) AS quantity
6  FROM
7      pizza_types
8      JOIN
9      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10     JOIN
11     order_details ON order_details.pizza_id = pizzas.pizza_id
12 GROUP BY pizza_types.category
13 ORDER BY quantity DESC;
```

Result Grid | | Filter Rows:  | Export: | Wrap Cell Content:

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

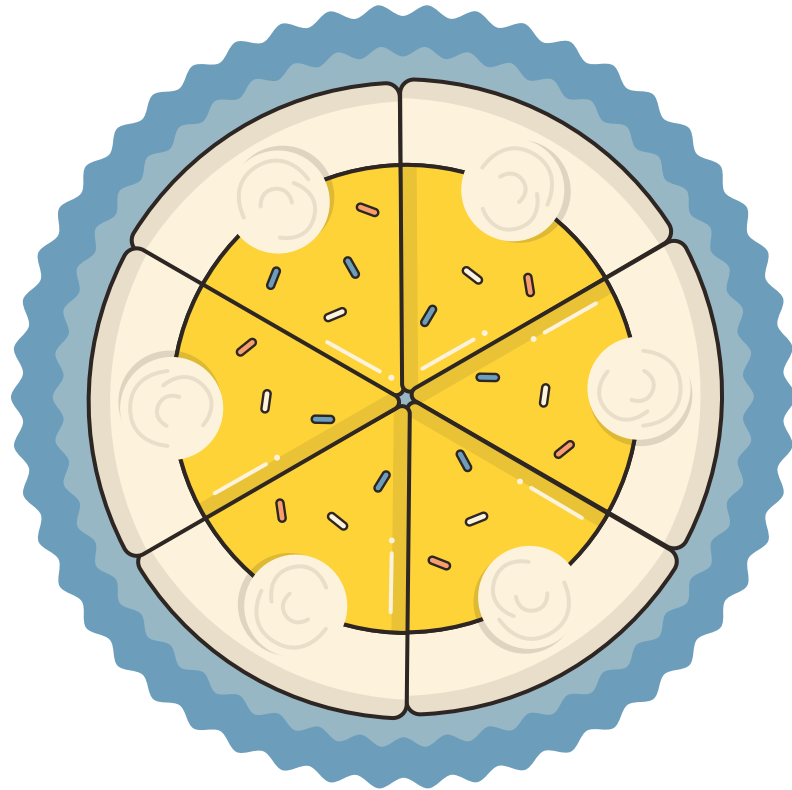
7



**Determine the  
distribution of  
orders by hour  
of the day**



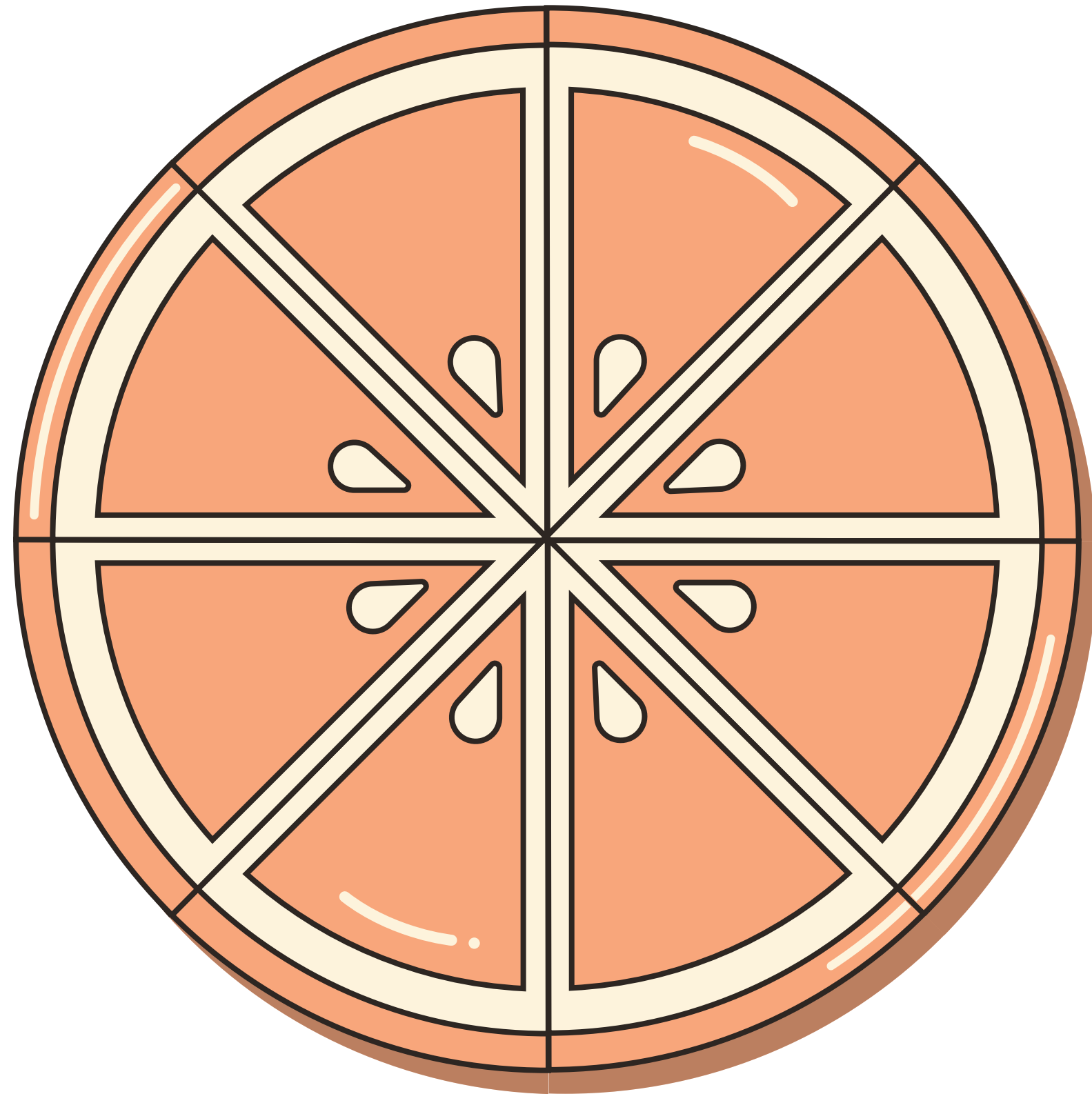
# ANSWER



```
1  -- Determine the distribution of orders by hour of the day
2  • SELECT
3      HOUR(orders.order_time) AS hour, COUNT(order_id) AS count
4  FROM
5      orders
6  GROUP BY hour
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	hour	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



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

# ANSWER

```
1  -- Join relevant tables to find the category-wise distribution of pizzas
2
3  •  SELECT
4      pizza_types.category AS category,
5      COUNT(pizza_types.pizza_type_id)
6  FROM
7      pizza_types
8  GROUP BY category
```

Result Grid



Filter Rows:

Export:



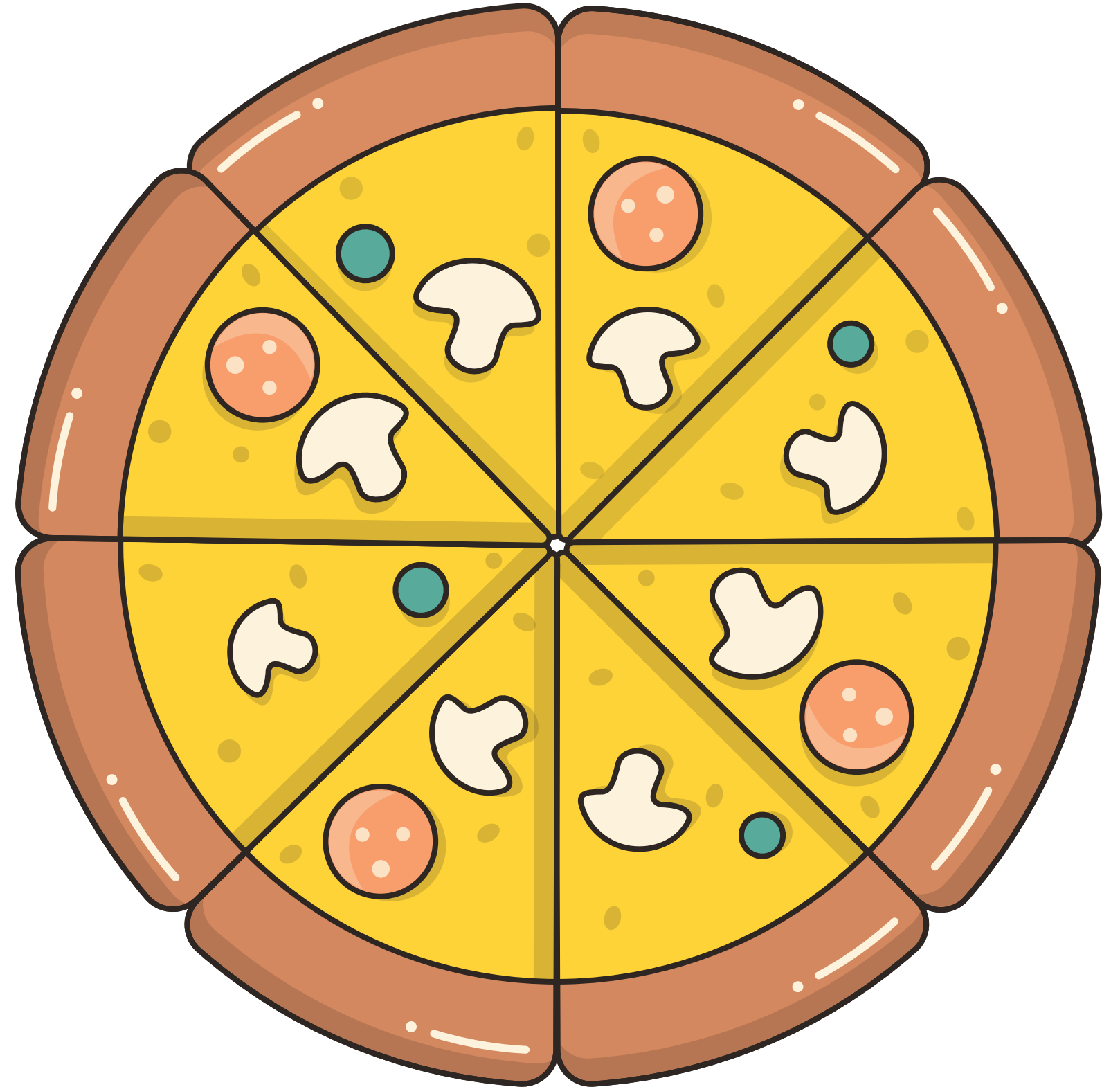
Wrap Cell Content:



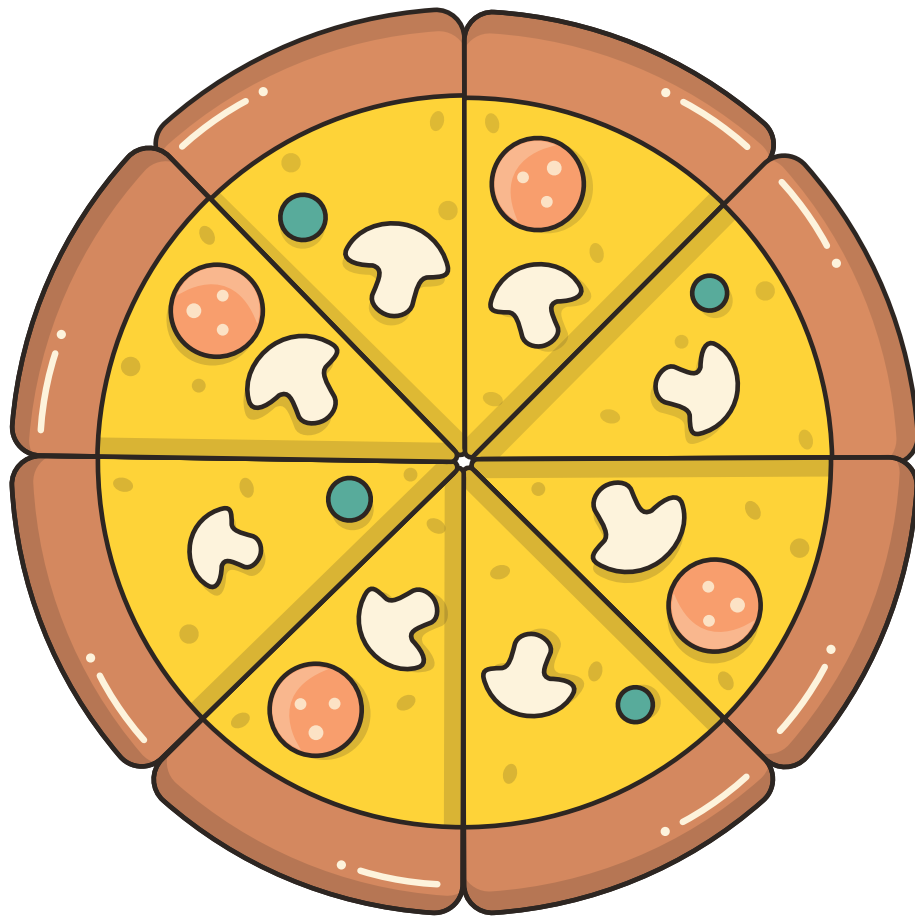
	category	COUNT(pizza_types.pizza_type_id)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

9

**group the orders  
by date and  
calculate the  
average number  
of pizzas ordered  
by day**



# ANSWER



```
1  -- group the orders by date and calculate the average number of pizzas ordered by day
2
3  •  SELECT
4      ROUND(AVG(quantity), 0) AS average_pizzas_sold_per_day
5  FROM
6      (SELECT
7          orders.order_date AS date,
8          COUNT(order_details.quantity) AS quantity
9      FROM
10         orders
11      JOIN order_details ON orders.order_id = order_details.order_id
12      GROUP BY date) AS sub_table;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

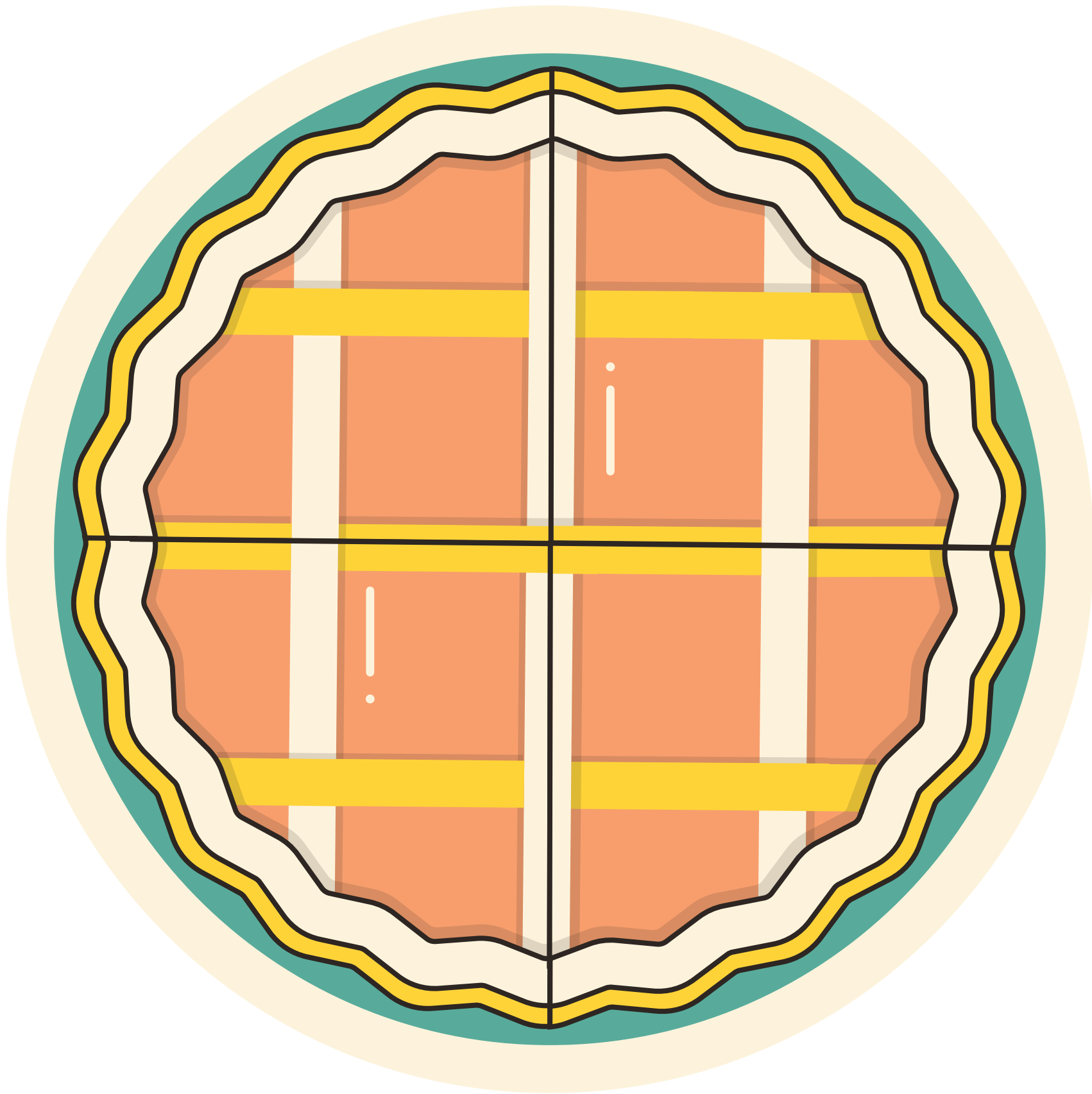


average\_pizzas\_sold\_per\_day

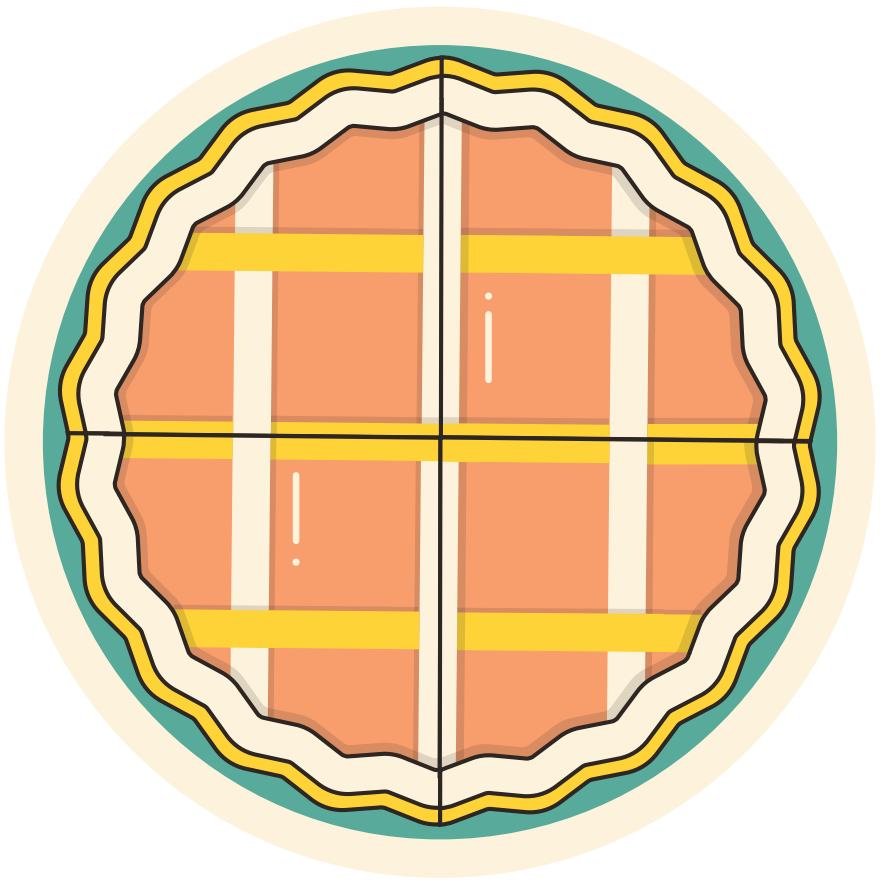
136

10

**Determine the  
top 3 most  
pizzas which has  
produced the  
most revenue**



# ANSWER



```
1  -- Determine the top 3 most pizzas which has produced the most revenue
2
3  • SELECT
4      pizza_types.name AS pizza_name,
5      SUM(pizzas.price * order_details.quantity) AS revenue
6  FROM
7      pizzas
8      JOIN
9      pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
10     JOIN
11     order_details ON order_details.pizza_id = pizzas.pizza_id
12 GROUP BY pizza_name
13 ORDER BY revenue DESC
14 LIMIT 3;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



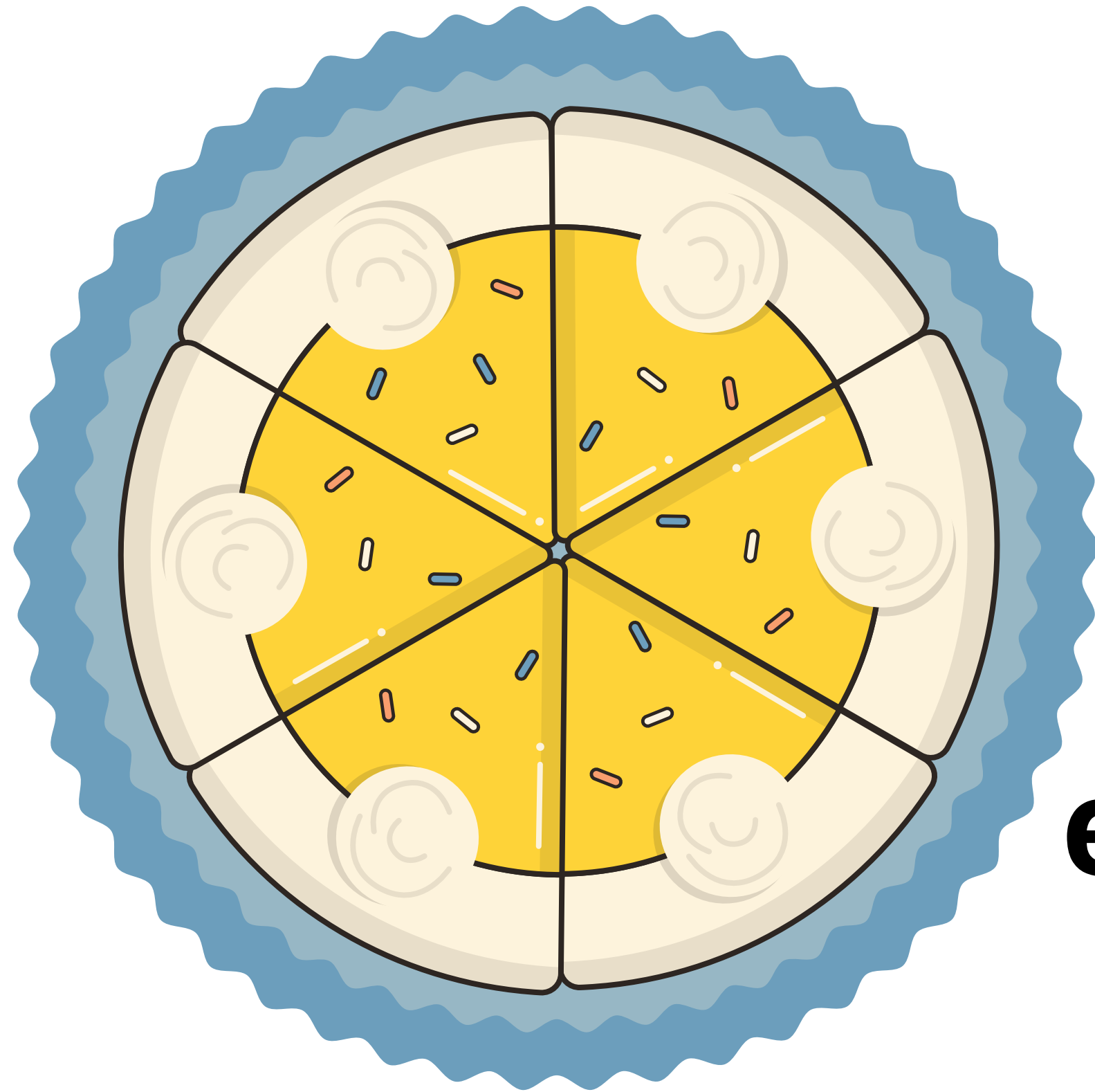
Fetch rows:



	pizza_name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

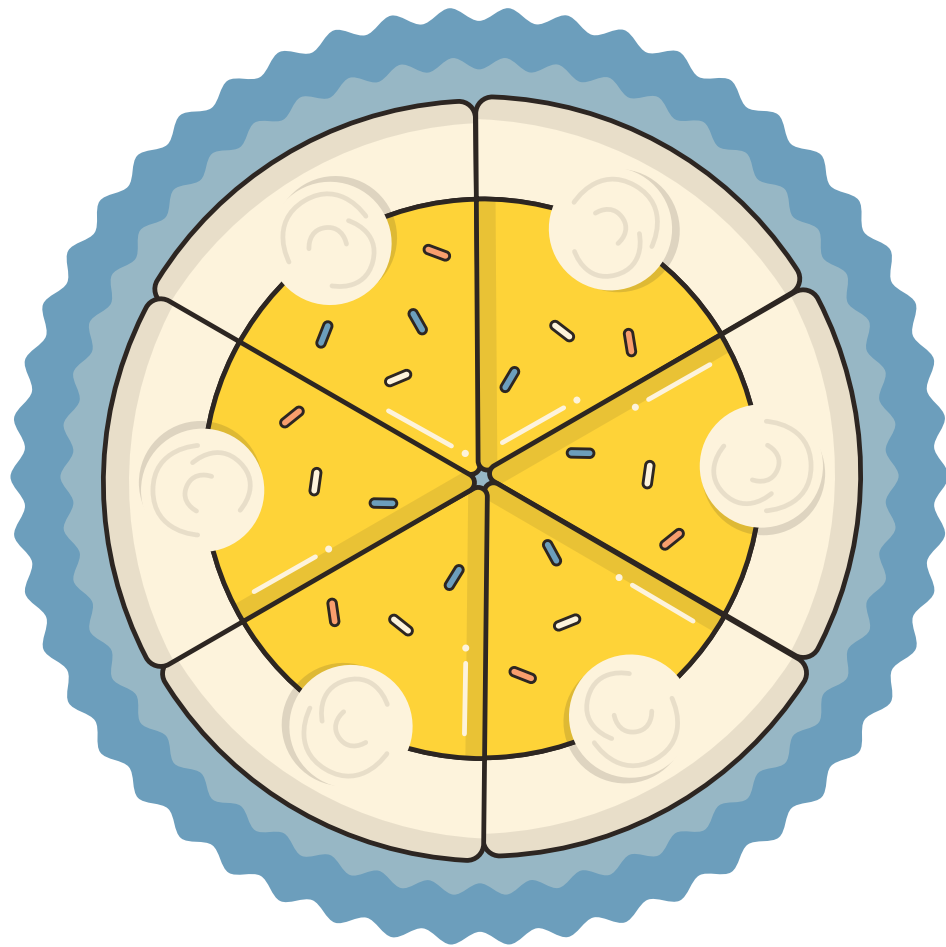


11



**Calculate the  
percentage  
contribution of  
each pizza category  
to total revenue**

# ANSWER

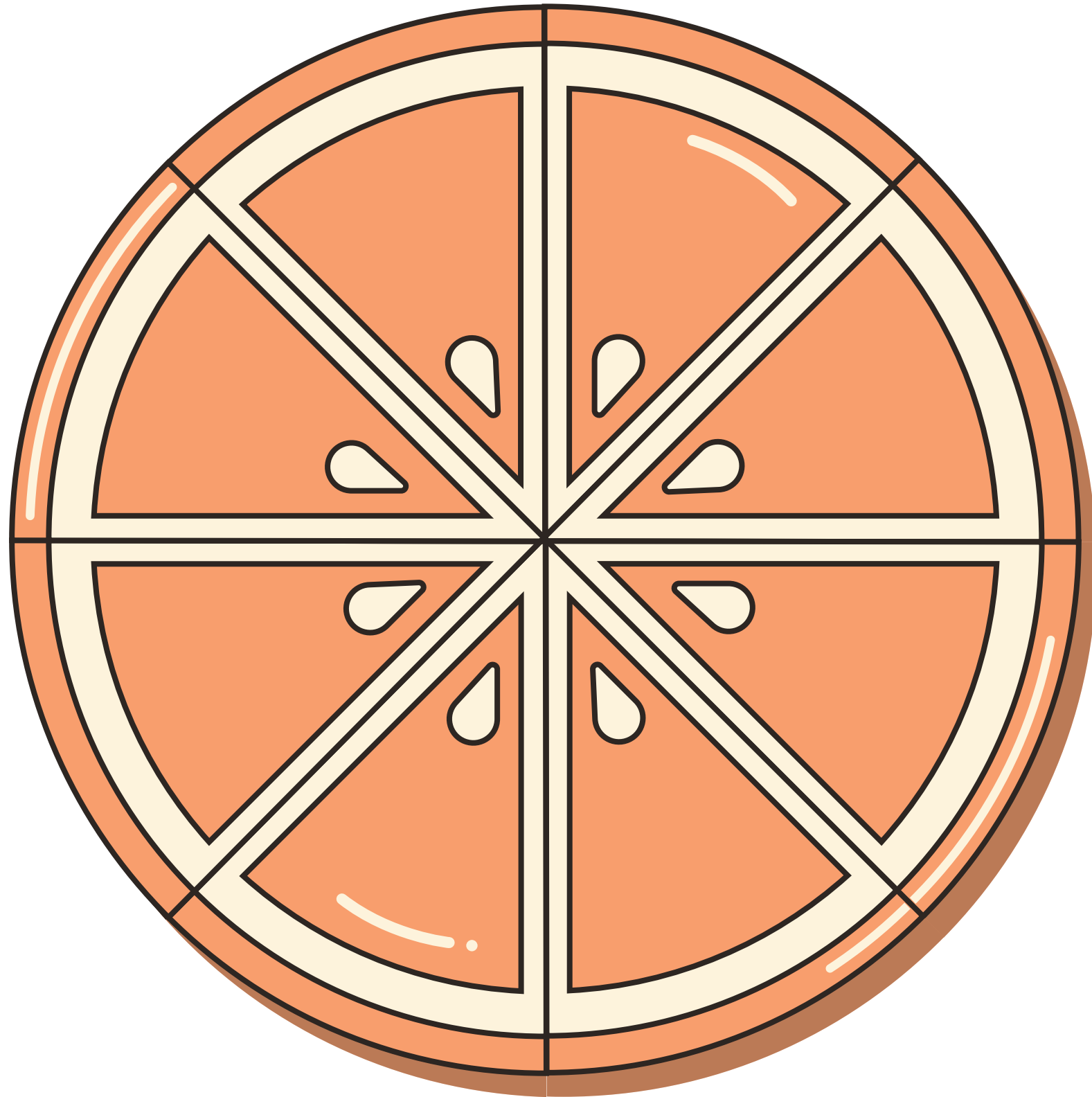


```
1  -- Calculate the percentage contribution of each pizza category to total revenue
2
3  • SELECT
4      pizza_types.category AS category,
5      ROUND((SUM(pizzas.price * order_details.quantity) / (SELECT
6          SUM(pizzas.price * order_details.quantity)
7          FROM
8              pizzas
9              JOIN
10                 order_details ON pizzas.pizza_id = order_details.pizza_id)) * 100,
11          2) AS percentage
12 FROM
13     pizza_types
14     JOIN
15     pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
16     JOIN
17     order_details ON order_details.pizza_id = pizzas.pizza_id
18 GROUP BY category
19 ORDER BY percentage DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [A](#)

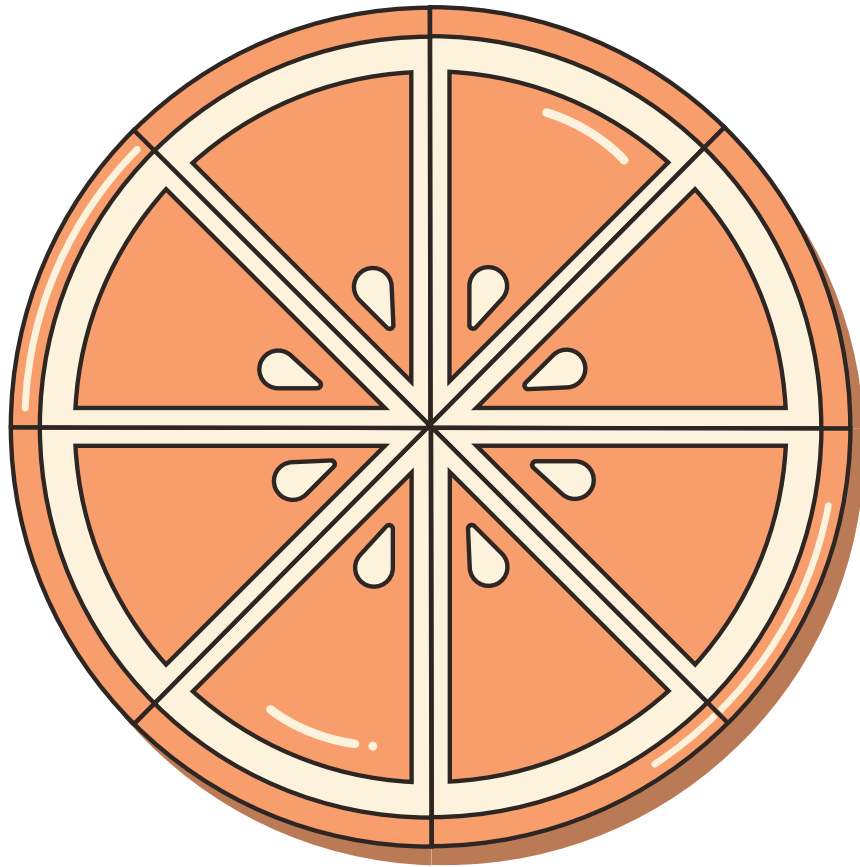
	category	percentage
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

12



**Analyze the  
cumulative  
revenue  
generated  
over time**

# ANSWER



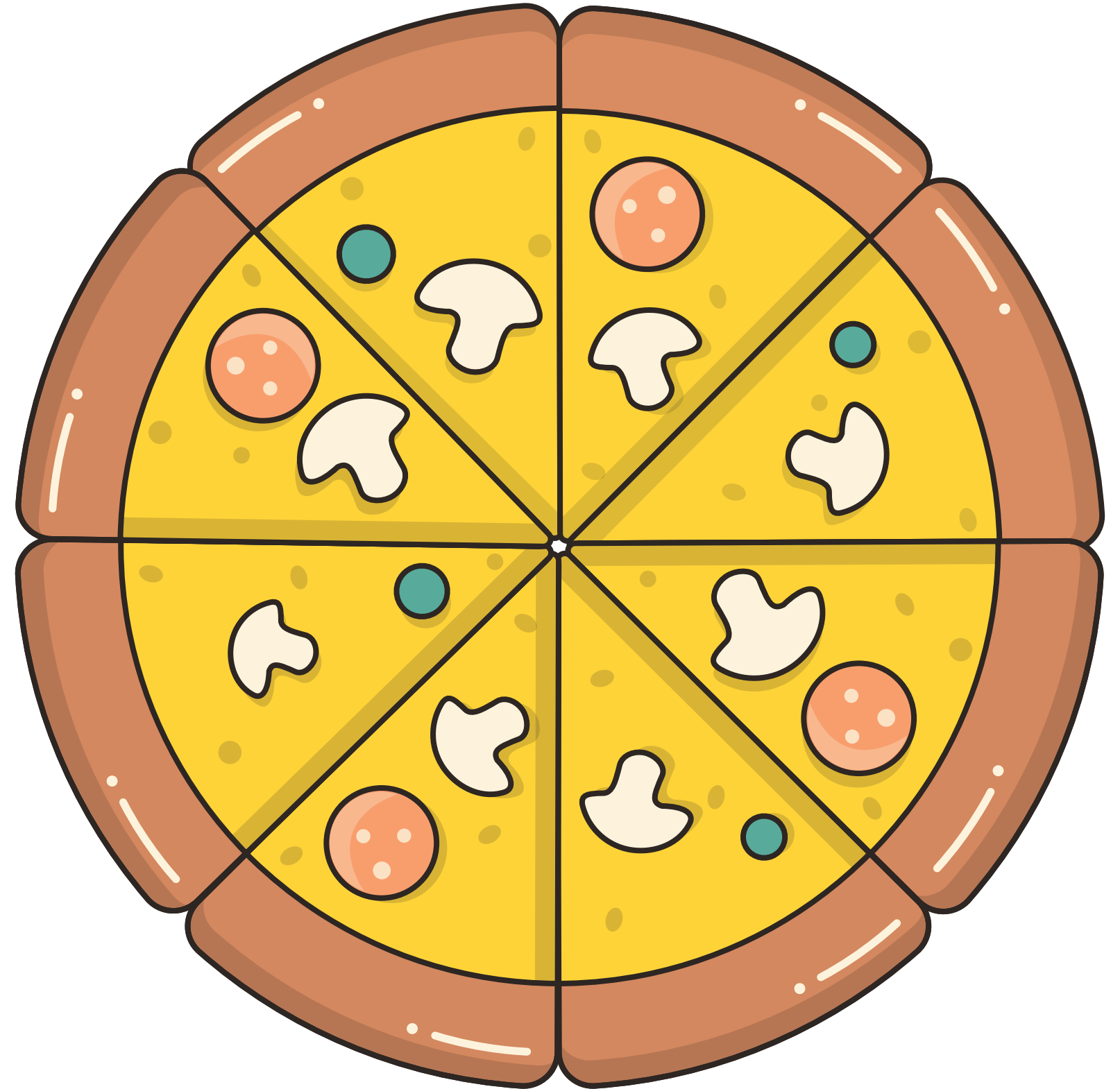
```
1  -- Analyze the cumulative revenue generated over time
2
3  • SELECT
4      day,
5      sum(total_revenue) OVER(order by day) AS cummlative_revenue
6  FROM
7      (SELECT
8          orders.order_date AS day,
9          SUM(order_details.quantity * pizzas.price) AS total_revenue
10     FROM
11         order_details
12     JOIN
13         pizzas ON order_details.pizza_id = pizzas.pizza_id
14     JOIN
15         orders ON orders.order_id = order_details.order_id
16     GROUP BY day) AS sales;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	day	cummlative_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

# 13

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





# ANSWER

```
1  -- Determine the top 3 most ordered pizza types based on revenue for each pizza category
2  • select category, name, revenue from
3  (SELECT
4      category,
5      name,
6      revenue,
7      RANK() OVER(partition by category order by revenue desc) as table_rank from
8  (SELECT
9      pizza_types.category AS category,
10     pizza_types.name AS name,
11     SUM(order_details.quantity * pizzas.price) AS revenue
12  FROM
13     pizza_types
14     JOIN
15     pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
16     JOIN
17     order_details ON order_details.pizza_id = pizzas.pizza_id
18  GROUP BY category , name) AS grid) AS final_table
19  where table_rank <=3;
```

	category	name	revenue
▶	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.25
	Classic	The Pepperoni Pizza	30161.75
	Supreme	The Spicy Italian Pizza	34831.25
	Supreme	The Italian Supreme Pizza	33476.75
	Supreme	The Sicilian Pizza	30940.5
	Veggie	The Four Cheese Pizza	32265.700
	Veggie	The Mexicana Pizza	26780.75
	Veggie	The Five Cheese Pizza	26066.5