

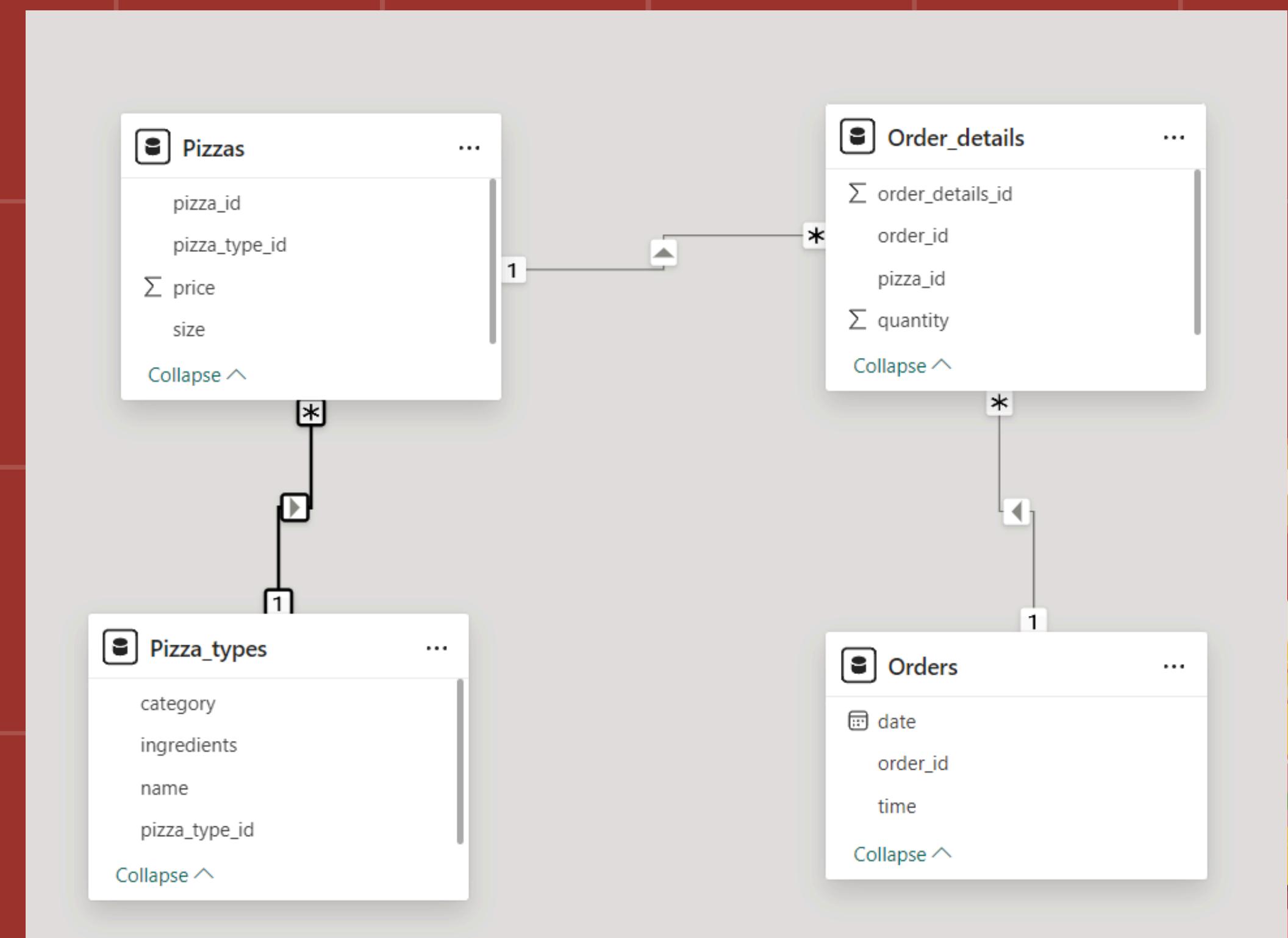
SQL PROJECT ON PIZZA SALES





**HELLO ALL, IN THIS
PROJECT I HAVE SOLVED
VARIOUS QUERIES
RELATED TO PIZZA SALES.**

DATABASE SCHEMA



01

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
select count(*) as "Total Orders Placed" from orders;
```

Total Orders
Placed

21350

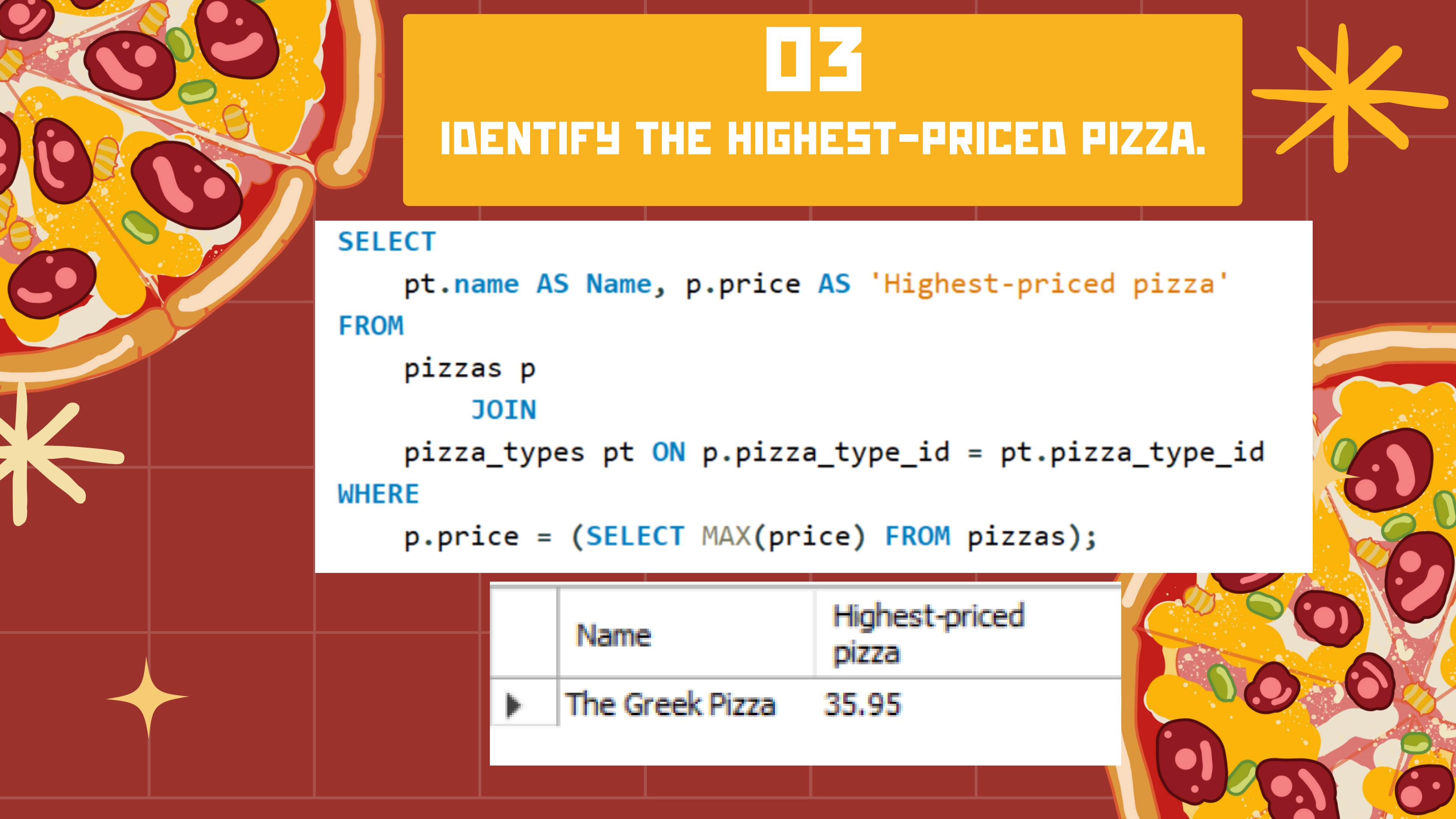


02

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT  
    ROUND(SUM(o.quantity * p.price), 2) AS 'Total Sales of Pizza'  
FROM  
    pizzas p  
    JOIN  
    order_details o ON p.pizza_id = o.pizza_id  
;
```

Total Sales of Pizza
817860.05



03

IDENTIFY THE HIGHEST-PRICED PIZZA.

SELECT

```
pt.name AS Name, p.price AS 'Highest-priced pizza'
```

FROM

```
pizzas p
```

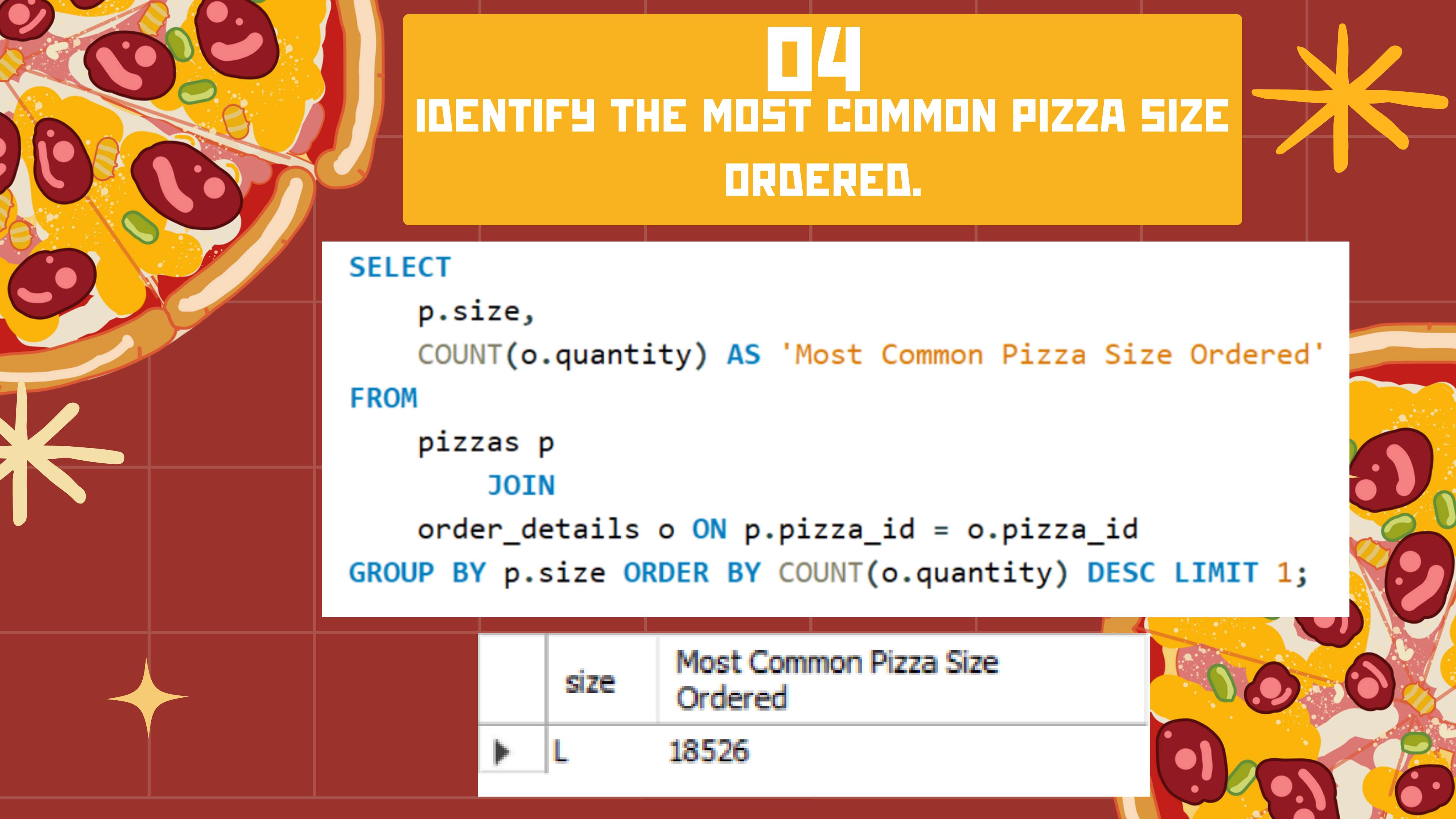
JOIN

```
pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
```

WHERE

```
p.price = (SELECT MAX(price) FROM pizzas);
```

	Name	Highest-priced pizza
▶	The Greek Pizza	35.95



04 IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
    p.size,
    COUNT(o.quantity) AS 'Most Common Pizza Size Ordered'
FROM
    pizzas p
    JOIN
    order_details o ON p.pizza_id = o.pizza_id
GROUP BY p.size ORDER BY COUNT(o.quantity) DESC LIMIT 1;
```

	size	Most Common Pizza Size Ordered
▶	L	18526

05

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

```
SELECT
    pt.name, sum(o.quantity) AS 'Top 5 most ordered pizza'
FROM
    pizzas p
        JOIN
    order_details o ON p.pizza_id = o.pizza_id
        JOIN
    pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
GROUP BY pt.name ORDER BY COUNT(o.quantity) DESC LIMIT 5;
```

Pizza Type	Top 5 most ordered pizza
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

06

JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
SELECT pt.category as "Pizza Category", SUM(o.quantity) AS 'Total Quantity'  
FROM pizzas p  
    JOIN order_details o ON p.pizza_id = o.pizza_id  
    JOIN pizza_types pt ON pt.pizza_type_id = p.pizza_type_id  
GROUP BY pt.category ORDER BY COUNT(o.quantity) DESC;
```

	Pizza Category	Total Quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

07

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT  
    HOUR(order_time) AS 'Hours Intervals',  
    COUNT(order_id) AS 'Count of Orders'  
FROM  
    orders  
GROUP BY HOUR(order_time)  
ORDER BY COUNT(order_id) DESC;
```

	Hours Intervals	Count of Orders
▶	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8
	9	1

08

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

```
SELECT
    category AS 'Category',
    COUNT(name) AS 'Count of Pizza Type'
FROM
    pizza_types
GROUP BY category;
```

	Category	Count of Pizza Type
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

09

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

SELECT

ROUND(AVG(Quantity), 2) 'Average Number of Pizzas Ordered Per Day'

FROM

(SELECT

o.order_date, SUM(od.quantity) AS "Quantity"

FROM

orders o

JOIN order_details od ON o.order_id = od.order_id

GROUP BY o.order_date) AS order_quantity;

Average Number of Pizzas Ordered Per Day

138.47



10

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

SELECT

```
pt.name AS 'Pizza Type',  
SUM(od.quantity * p.price) AS 'Total Revenue'
```

FROM

```
pizzas p  
JOIN  
order_details od ON od.pizza_id = p.pizza_id  
JOIN  
pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
```

GROUP BY p.pizza_type_id

ORDER BY SUM(od.quantity * p.price) DESC

LIMIT 3;



	Pizza Type	Total 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 pt.category AS 'Pizza Category',
       ROUND((SUM(od.quantity * p.price) / (SELECT
                                               ROUND(SUM(od.quantity * p.price), 2) AS 'Total_Revenue'
                                             FROM pizzas p
                                             JOIN order_details od ON od.pizza_id = p.pizza_id) * 100),2) AS 'Revenue'
  FROM pizzas p
  JOIN order_details od ON od.pizza_id = p.pizza_id
  JOIN pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
 GROUP BY pt.category ORDER BY Revenue DESC;
```

	Pizza 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 as "Order Date",sum(Revenue) OVER(ORDER BY order_date)
as "Cumulative Revenue" FROM
(SELECT o.order_date, round(sum(od.quantity*p.price),2) AS "Revenue"
FROM order_details od JOIN pizzas p
ON od.pizza_id=p.pizza_id
JOIN orders o ON
o.order_id=od.order_id
GROUP BY o.order_date) AS a;
```

START DATE			END DATE		
	Order Date	Cumulative Revenue		Order Date	Cumulative Revenue
► 2015-01-01	2713.85		2015-12-27	810615.8	
2015-01-02	5445.75		2015-12-28	812253	
2015-01-03	8108.15		2015-12-29	813606.25	
2015-01-04	9863.6		2015-12-30	814944.05	
2015-01-05	11929.55		2015-12-31	817860.05	

13

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

```
SELECT * FROM
(SELECT *,RANK() OVER(PARTITION BY category ORDER BY Revenue DESC) AS Rnk FROM
(SELECT
pt.category,
pt.name,
ROUND(SUM(od.quantity * p.price), 2) AS 'Revenue'
FROM
pizzas p
JOIN
pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
JOIN
order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category , pt.name) AS a)b WHERE b.Rnk<=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	32265.7
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5

THANK YOU

"I APPRECIATE YOUR ATTENTION AND ENGAGEMENT THROUGHOUT THIS PRESENTATION. YOUR FEEDBACK IS HIGHLY VALUED AS IT HELPS ME IMPROVE AND DELIVER BETTER INSIGHTS. PLEASE FEEL FREE TO SHARE YOUR THOUGHTS AND SUGGESTIONS."

