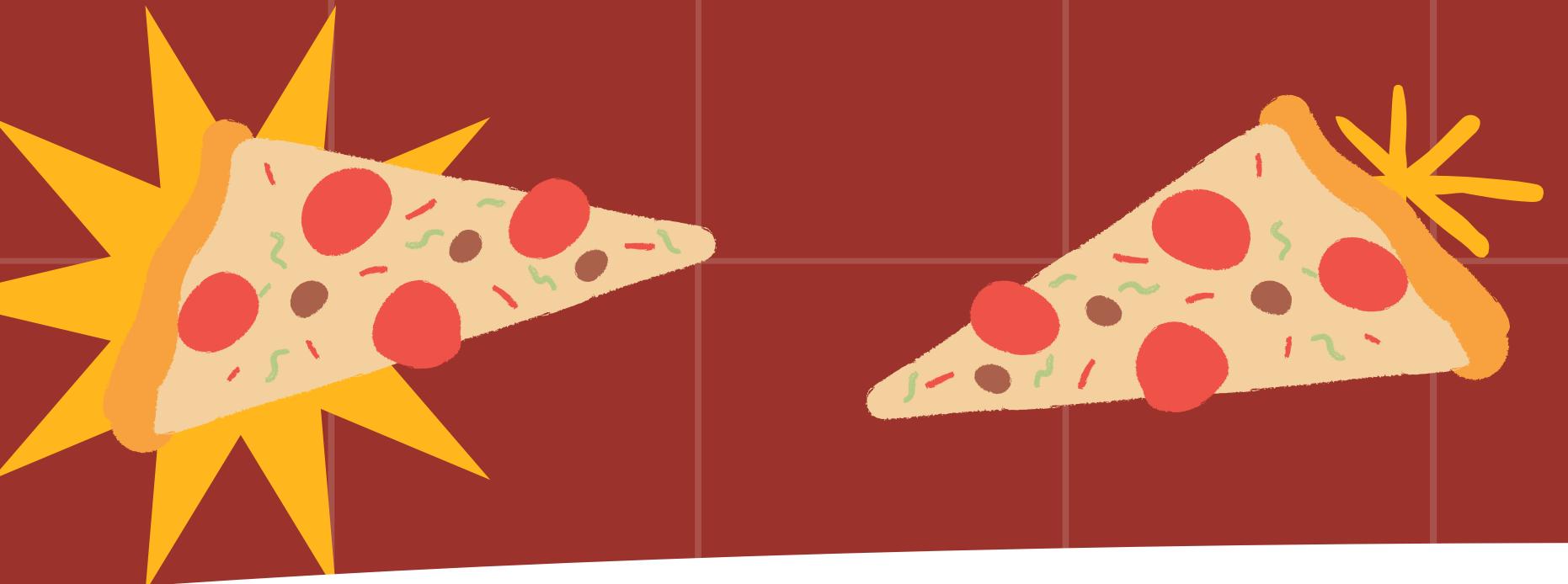
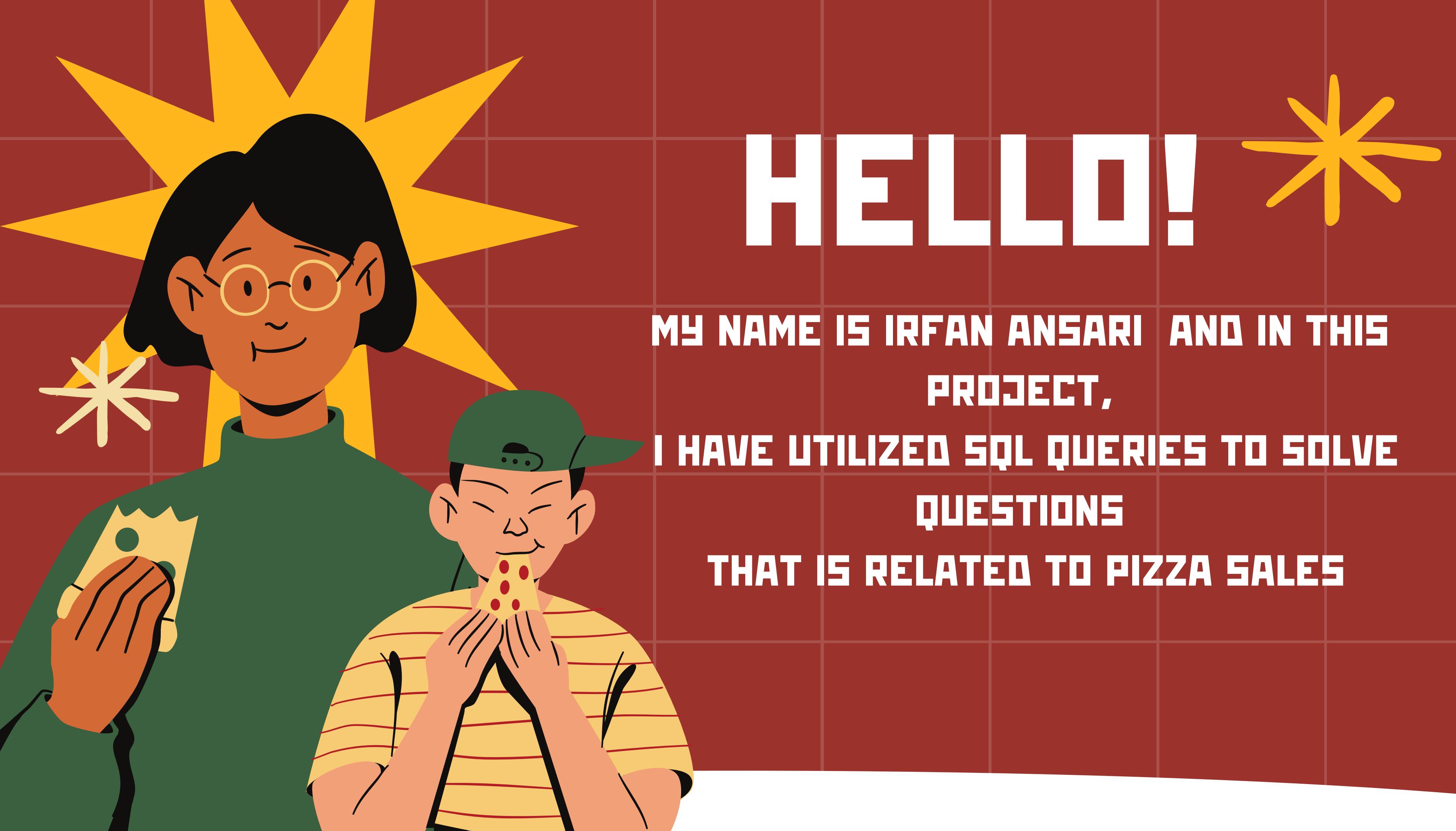


**DELICIOUS
PIZZA FOR
EVERYONE**





HELLO!

**MY NAME IS IRFAN ANSARI AND IN THIS
PROJECT,
I HAVE UTILIZED SQL QUERIES TO SOLVE
QUESTIONS
THAT IS RELATED TO PIZZA SALES**

TABLES USED IN THIS PROJECTS

ORDER_DETAILS			
Order_details_id (P.K)	Order_id	Pizza_id	Quantity
PIZZA_TYPES			
Pizza_type_id (P.K)	Name	Category	Ingredients
PIZZAS			
Pizza_id (P.K)	Pizza_type_id	Size	Price
ORDERS			
Order_id (P.K)	Time	Date	

Q1. Retrieve the total number of orders placed

```
SELECT  
    COUNT(*) as total_order_placed  
FROM  
    orders;
```



OUTPUT:

	total_order_placed	bigint
1		21350



Q2. Calculate the total revenue generated from pizza sales

```
SELECT SUM(p.price*o.quantity) AS Total_revenue  
FROM pizzas p  
JOIN order_details o  
ON p.pizza_id = o.pizza_id
```



OUTPUT:

	total_revenue	numeric
1		817860.05



Q3. Identify the highest-priced pizza

```
SELECT t.name, t.category, p.pizza_type_id, p.size, p.price  
FROM pizzas p  
JOIN pizza_types t  
ON p.pizza_type_id = t.pizza_type_id  
WHERE p.price = (SELECT MAX(price) FROM pizzas)
```

OUTPUT:



	name text	category text	pizza_type_id text	size text	price numeric (6,2)
1	The Greek Pizza	Classic	the_greek	XXL	35.95



Q4. Identify the most common pizza size ordered

```
SELECT p.size, COUNT(p.size) AS common_pizza_size FROM pizzas p  
JOIN order_details o  
ON p.pizza_id = o.pizza_id  
GROUP BY p.size
```

OUTPUT:

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



Q5. List the top 5 most ordered pizza types along with their quantities

```
SELECT t.name, SUM(o.quantity) AS quantity FROM pizzas p
JOIN order_details o
ON p.pizza_id = o.pizza_id
JOIN pizza_types t
ON t.pizza_type_id = p.pizza_type_id
GROUP BY t.name
ORDER BY quantity DESC
LIMIT 5
```

OUTPUT:

	name text	quantity bigint
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

Q6. Join the necessary table to find the total quantity of each pizza category order

```
SELECT t.category, SUM(o.quantity) AS quantity FROM pizza_types t  
JOIN pizzas p  
ON t.pizza_type_id = p.pizza_type_id  
JOIN order_details o  
ON o.pizza_id = p.pizza_id  
GROUP BY t.category  
ORDER BY quantity DESC
```

OUTPUT:

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



Q7. Determine the distribution of orders by hour of the day

```
SELECT EXTRACT(HOUR FROM time) AS Hour,  
COUNT(order_id) AS order_count  
FROM orders  
GROUP BY hour;
```

OUTPUT:

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



Q8. Join relevant tables to find the category-wise distribution of pizzas

```
SELECT category ,COUNT(name)  
FROM pizza_types  
GROUP BY category  
ORDER BY category DESC;
```

OUTPUT:

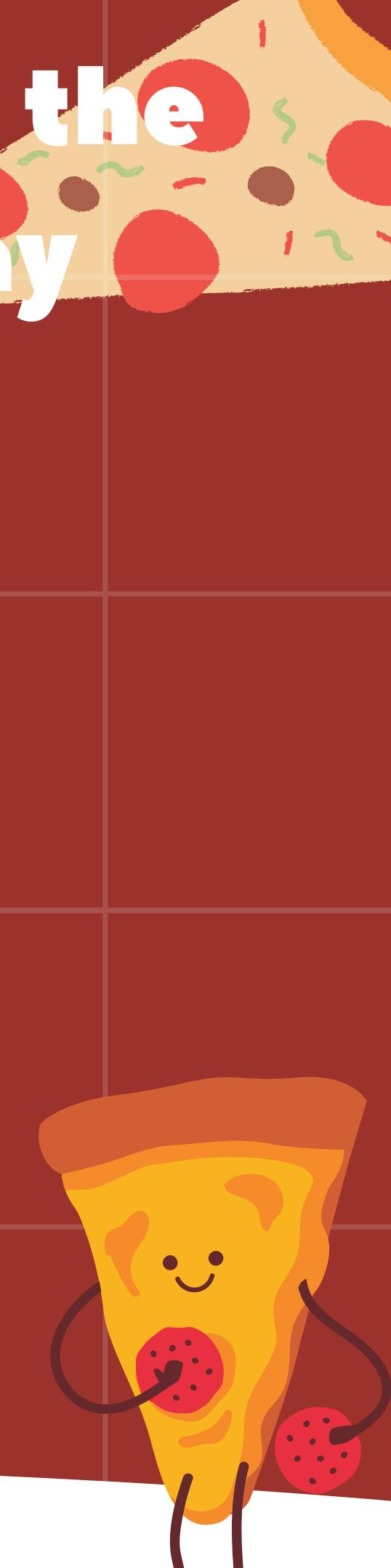
	category text	count bigint
1	Veggie	9
2	Supreme	9
3	Classic	8
4	Chicken	6



Q9. Group the orders by date and calculate the average number of pizzas ordered per day

```
SELECT ROUND(AVG(quantity), 0) AS avg_pizza_order_per_day
FROM (SELECT o.date, SUM(d.quantity) AS quantity
      FROM orders o
      JOIN order_details d
        ON o.order_id = d.order_id
     GROUP BY o.date
    ORDER BY o.date ASC);
```

OUTPUT:



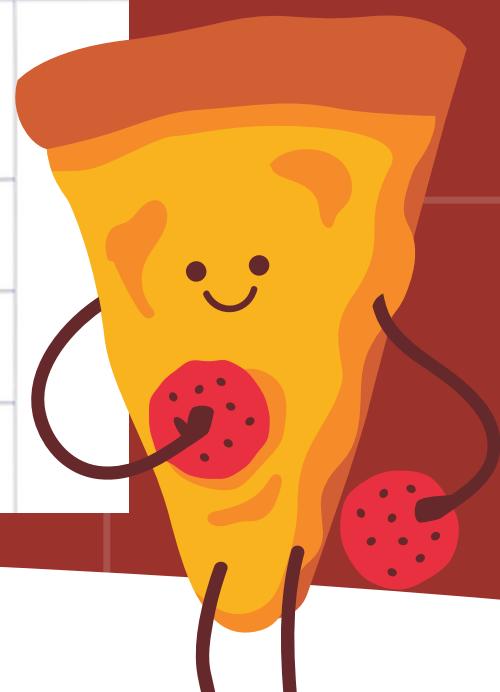
	avg_pizza_order_per_day	lock
1	138	

Q10. Determine the top 3 most ordered pizza types based on revenue



```
SELECT t.name, SUM(p.price*d.quantity) AS revenue
FROM pizza_types t
JOIN pizzas p
ON t.pizza_type_id = p.pizza_type_id
JOIN order_details d
ON d.pizza_id = p.pizza_id
GROUP BY t.name
ORDER BY revenue DESC
LIMIT 3;
```

OUTPUT:



	name text	revenue numeric
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768.00
3	The California Chicken Pizza	41409.50

Q11. Calculate the percentage contribution of each pizza type to total revenue

```
SELECT t.category, ROUND(SUM(d.quantity*p.price) /  
(SELECT ROUND(SUM(d.quantity * p.price), 2) AS total_sales  
FROM order_details d  
JOIN pizzas p ON p.pizza_id = d.pizza_id)* 100, 2) AS revenue  
FROM pizza_types t  
JOIN pizzas p  
ON t.pizza_type_id = p.pizza_type_id  
JOIN order_details d  
ON p.pizza_id = d.pizza_id  
GROUP BY t.category  
ORDER BY revenue DESC
```



OUTPUT:

	category text	revenue numeric
1	Classic	26.91
2	Supreme	25.46
3	Chicken	23.96
4	Veggie	23.68

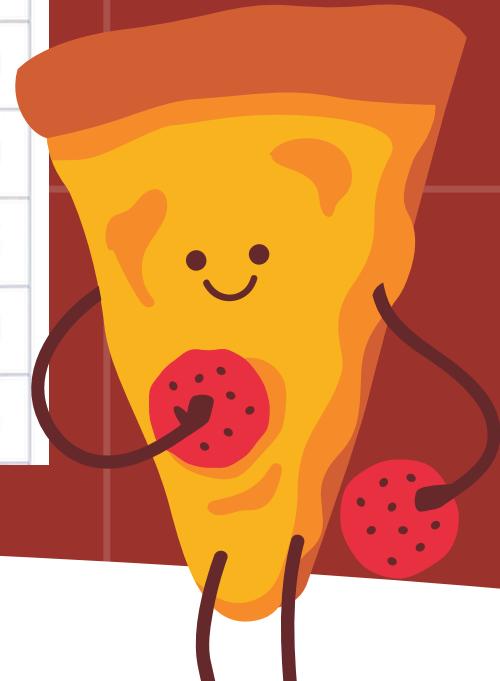


Q12. Analyze the cumulative revenue generated over time

```
SELECT date, SUM(revenue) OVER(ORDER BY date) AS cummulative_revenue
FROM (SELECT o.date, SUM(p.price * d.quantity) AS revenue
      FROM order_details d
      JOIN pizzas p
      ON p.pizza_id = d.pizza_id
      JOIN orders o
      ON o.order_id = d.order_id
     GROUP BY o.date
    ORDER BY o.date
   LIMIT 10)
```

OUTPUT:

	date date	cummulative_revenue numeric
1	2015-01-01	2713.85
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.60
5	2015-01-05	11929.55
6	2015-01-06	14358.50
7	2015-01-07	16560.70
8	2015-01-08	19399.05
9	2015-01-09	21526.40
10	2015-01-10	23990.35



Q13. 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) AS rank
FROM (SELECT t.category ,t.name, SUM(p.price * d.quantity) AS revenue
FROM pizzas p
JOIN order_details d
ON p.pizza_id = d.pizza_id
JOIN pizza_types t
ON t.pizza_type_id = p.pizza_type_id
GROUP BY t.category ,t.name))
WHERE rank <= 3
```

OUTPUT:

	name	revenue
1	The Chicken Pesto Pizza	16701.75
2	The Chicken Alfredo Pizza	16900.25
3	The Southwest Chicken Pizza	34705.75
4	The Pepperoni, Mushroom, and Peppers Pizza	18834.50
5	The Big Meat Pizza	22968.00
6	The Napolitana Pizza	24087.00
7	The Brie Carre Pizza	11588.50
8	The Spinach Supreme Pizza	15277.75
9	The Calabrese Pizza	15934.25
10	The Green Garden Pizza	13955.75
11	The Mediterranean Pizza	15360.50
12	The Spinach Pesto Pizza	15596.00

VARIATIONS



Pizza Margherita



Pepperoni Pizza



BBQ Chicken Pizza



Hawaiian Pizza

A festive illustration set against a red background with a white grid. In the center, the words "THANK YOU" are written in large, bold, white capital letters. To the left, a person with dark curly hair and a green sweater holds a slice of pizza. To the right, another person with glasses and a green sweater holds a small wrapped gift. Above them, a reindeer with a yellow and orange patterned collar and a bell hangs from its neck. The reindeer has large, expressive eyes and a small smile. The background is decorated with yellow stars and a large yellow starburst at the bottom.

THANK YOU