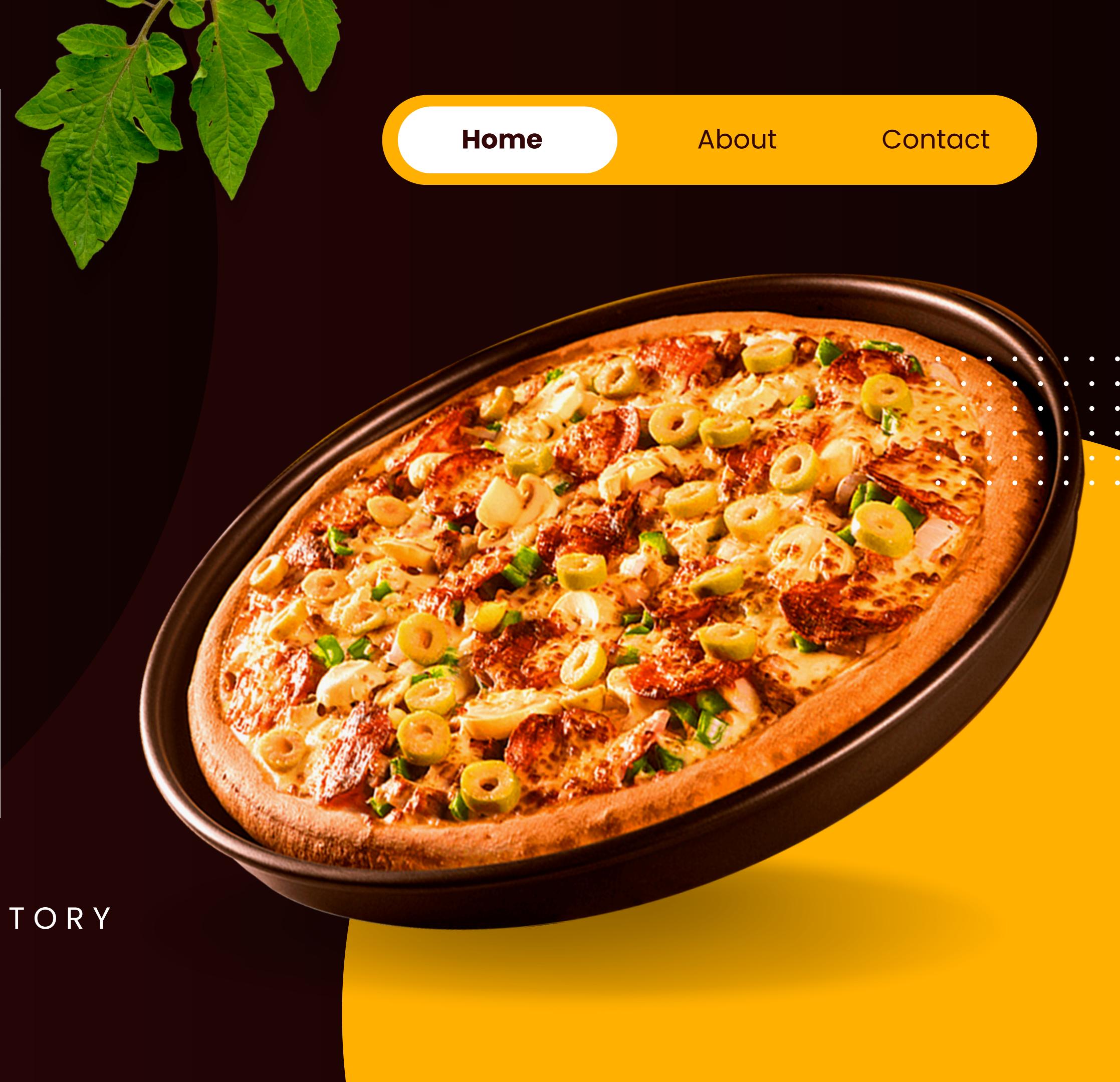




● WHERE EVERY SLICE TELLS A STORY



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HELLOO !!



I am Ayush Suryawanshi, and in this project, I used PostgreSQL to analyze a pizza sales dataset. Through SQL queries, I derived insights on sales, revenue, and customer preferences, showcasing the power of database management for business analysis.



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The project utilizes three main datasets:

1. **pizza_types**: Contains information about various pizza types, including their unique IDs, names, categories (e.g., Chicken, Classic, Veggie), and ingredients.
2. **orders**: Includes data on individual customer orders, with order IDs, dates, and times.
3. **order_details**: Provides details of each order, including the order ID, pizza IDs, and quantities of pizzas ordered.



Retrieve the total number of orders placed.

```
SELECT  
    COUNT(ORDER_ID) AS TOTAL_ORDERS  
FROM  
    ORDERS;
```

	total_orders	bigint
1	21350	





Calculate the total revenue generated from pizza sales.

```
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price)::NUMERIC, 2) AS total_sales
FROM
    order_details
JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

	total_sales numeric	lock
1	817860.05	

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Identify the highest-priced pizza.

```
SELECT
    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
LIMIT 1;
```

	name text	price double precision
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 text	order_count bigint
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
    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
LIMIT 5;
```

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

Determine the distribution of orders by hour of the day.

```
SELECT
    EXTRACT(HOUR FROM time::time) AS order_hour,
    COUNT(order_id) AS order_count
FROM
    orders
GROUP BY
    order_hour
ORDER BY
    order_hour;
```

	order_hour numeric	order_count 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



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

```
SELECT
    pizza_types.category,
    COUNT(DISTINCT pizzas.pizza_id) AS pizza_count
FROM
    pizzas
JOIN
    pizza_types
ON
    pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY
    pizza_types.category
ORDER BY
    pizza_count DESC;
```

	category text	pizza_count bigint
1	Veggie	27
2	Classic	26
3	Supreme	25
4	Chicken	18



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

```
SELECT
    orders.date,
    COUNT(order_details.order_id) AS total_pizzas_ordered,
    COUNT(DISTINCT orders.date) AS total_days,
    ROUND(COUNT(order_details.order_id) / COUNT(DISTINCT orders.date)::numeric, 2) AS avg_pizzas_per_day
FROM
    orders
JOIN
    order_details
ON
    orders.order_id = order_details.order_id
GROUP BY
    orders.date
ORDER BY
    orders.date;
```

date	total_pizzas_ordered	total_days	avg_pizzas_per_day
2015-01-01	161	1	161.00
2015-01-02	160	1	160.00
2015-01-03	154	1	154.00
2015-01-04	106	1	106.00
2015-01-05	121	1	121.00
2015-01-06	144	1	144.00
2015-01-07	133	1	133.00
2015-01-08	171	1	171.00
2015-01-09	123	1	123.00
2015-01-10	145	1	145.00
2015-01-11	114	1	114.00
2015-01-12	118	1	118.00
2015-01-13	117	1	117.00
2015-01-14	144	1	144.00
2015-01-15	123	1	123.00
2015-01-16	155	1	155.00
2015-01-17	122	1	122.00
2015-01-18	119	1	119.00
2015-01-19	139	1	139.00
2015-01-20	139	1	139.00
2015-01-21	127	1	127.00



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

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

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



Analyze the cumulative revenue generated over time.

```
WITH order_revenue AS (
  SELECT
    orders.order_id,
    -- Combine date and time to form a full timestamp
    CONCAT(orders.date, ' ', orders.time) AS order_time,
    SUM(order_details.quantity * pizzas.price) AS revenue
  FROM
    order_details
  JOIN
    orders ON order_details.order_id = orders.order_id
  JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
  GROUP BY
    orders.order_id, orders.date, orders.time
),
cumulative_revenue AS (
  SELECT
    order_time,
    revenue,
    SUM(revenue) OVER (ORDER BY order_time) AS cumulative_revenue
  FROM
    order_revenue
)
SELECT
  order_time,
  revenue,
  cumulative_revenue
FROM
  cumulative_revenue
ORDER BY
  order_time;
```

	order_time text	revenue double precision	cumulative_revenue double precision
1	2015-01-01 11:38:36+05:30	13.25	13.25
2	2015-01-01 11:57:40+05:30	92	105.25
3	2015-01-01 12:12:28+05:30	37.25	142.5
4	2015-01-01 12:16:31+05:30	16.5	159
5	2015-01-01 12:21:30+05:30	16.5	175.5
6	2015-01-01 12:29:36+05:30	24.75	200.25
7	2015-01-01 12:50:37+05:30	12.5	212.75
8	2015-01-01 12:51:37+05:30	12.5	225.25
9	2015-01-01 12:52:01+05:30	143.25	368.5
10	2015-01-01 13:00:15+05:30	41	409.5
11	2015-01-01 13:02:59+05:30	73.5	483
12	2015-01-01 13:04:41+05:30	70.75	553.75
13	2015-01-01 13:11:55+05:30	20.25	574
14	2015-01-01 13:14:19+05:30	12	586
15	2015-01-01 13:33:00+05:30	63.25	649.25
16	2015-01-01 13:34:07+05:30	50.7	699.95
17	2015-01-01 13:53:00+05:30	184.5	884.45
18	2015-01-01 13:57:08+05:30	20.5	904.95
19	2015-01-01 13:59:09+05:30	40.75	945.7
20	2015-01-01 14:03:08+05:30	30.5	976.2
21	2015-01-01 14:14:29+05:30	20.5	996.7



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

```
WITH pizza_revenue AS (
    SELECT
        pizza_types.category,
        pizza_types.name AS pizza_name, -- Correcting this to use pizza_types.name
        SUM(order_details.quantity * pizzas.price) AS revenue
    FROM
        order_details
    JOIN
        pizzas ON order_details.pizza_id = pizzas.pizza_id
    JOIN
        pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    GROUP BY
        pizza_types.category, pizza_types.name -- Adjusted to use pizza_types.name
),
ranked_pizzas AS (
    SELECT
        category,
        pizza_name,
        revenue,
        ROW_NUMBER() OVER (PARTITION BY category ORDER BY revenue DESC) AS rank
    FROM
        pizza_revenue
)
SELECT
    category,
    pizza_name,
    revenue
FROM
    ranked_pizzas
WHERE
    rank <= 3
```

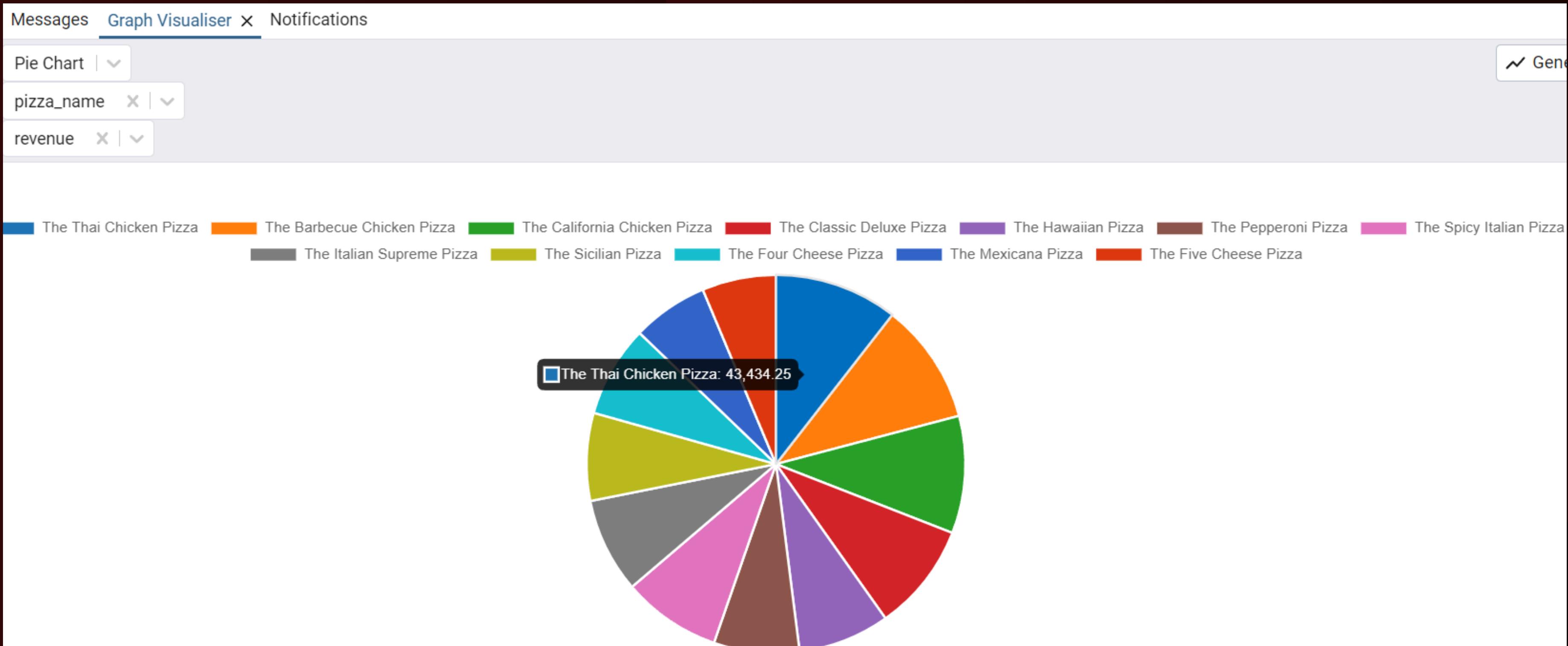
Data Output Messages Notifications

SQL

	category text	pizza_name text	revenue double precision
1	Chicken	The Thai Chicken Pizza	43434.25
2	Chicken	The Barbecue Chicken Pizza	42768
3	Chicken	The California Chicken Pizza	41409.5
4	Classic	The Classic Deluxe Pizza	38180.5
5	Classic	The Hawaiian Pizza	32273.25
6	Classic	The Pepperoni Pizza	30161.75
7	Supreme	The Spicy Italian Pizza	34831.25
8	Supreme	The Italian Supreme Pizza	33476.75
9	Supreme	The Sicilian Pizza	30940.5
10	Veggie	The Four Cheese Pizza	32265.70000000065
11	Veggie	The Mexicana Pizza	26780.75
12	Veggie	The Five Cheese Pizza	26066.5

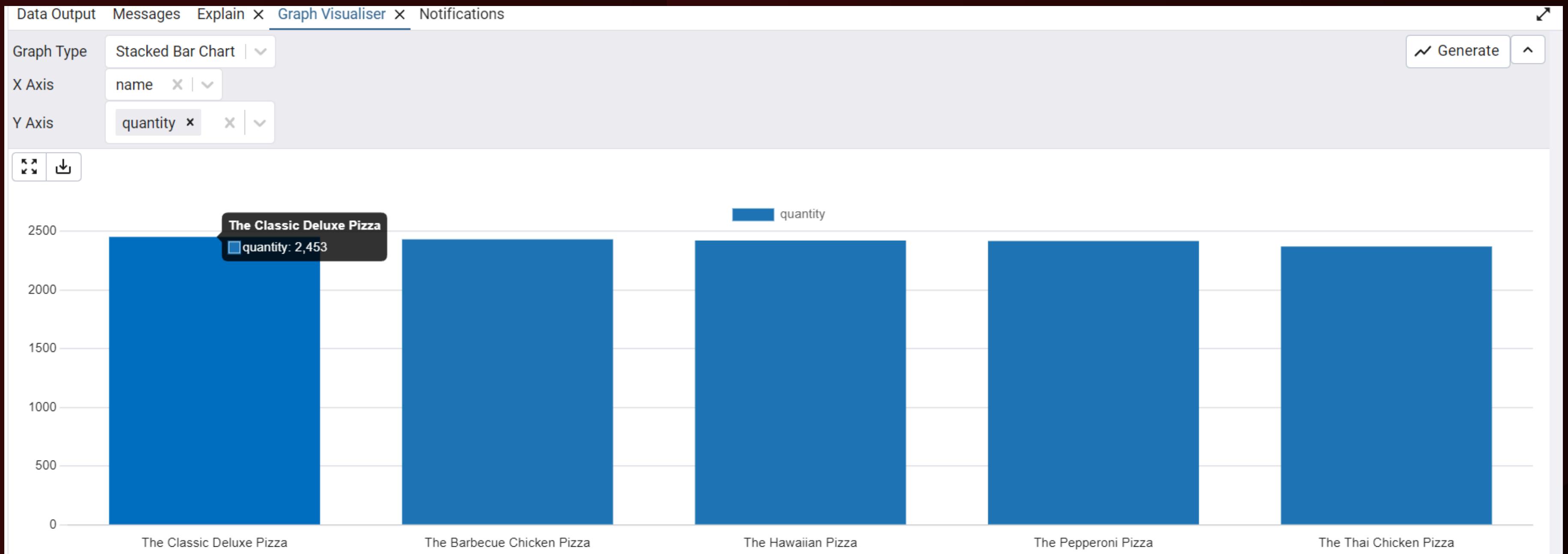
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Analyze the cumulative revenue generated over time.



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





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