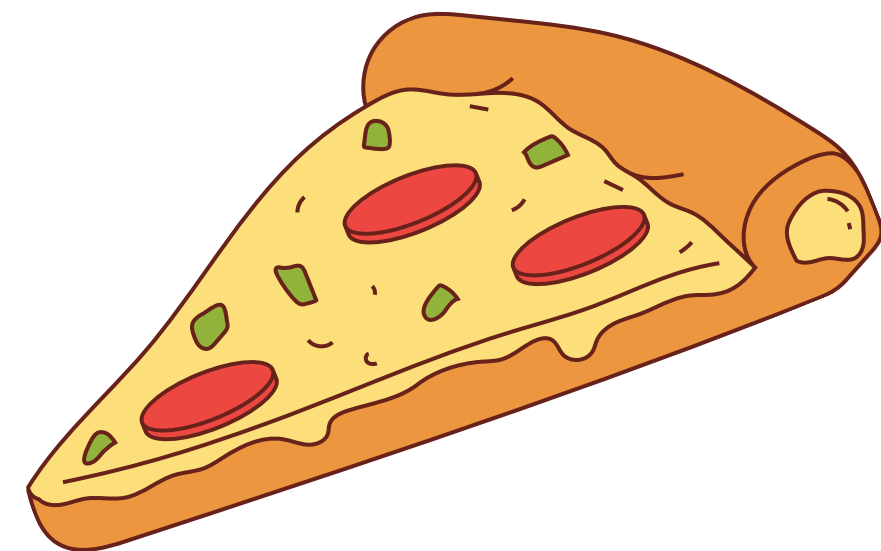
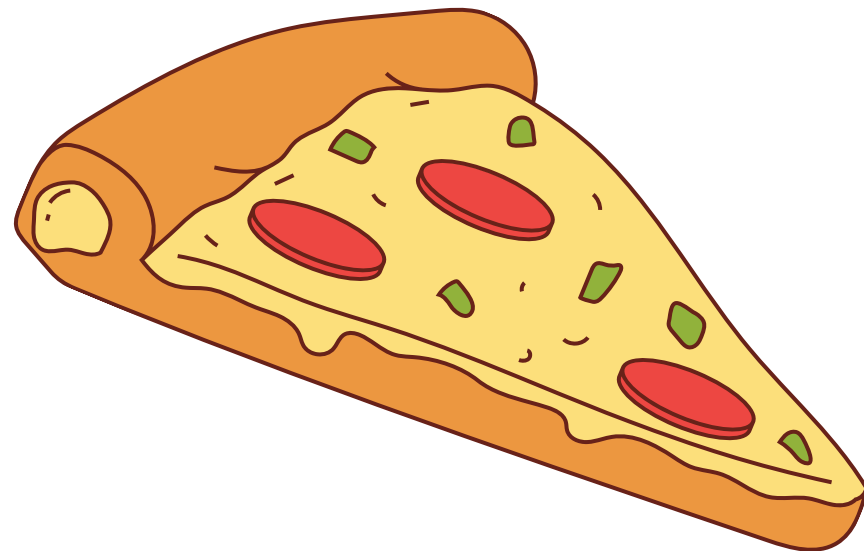


PIZZA SALES ANALYSIS

-YAGNIK GOSAI

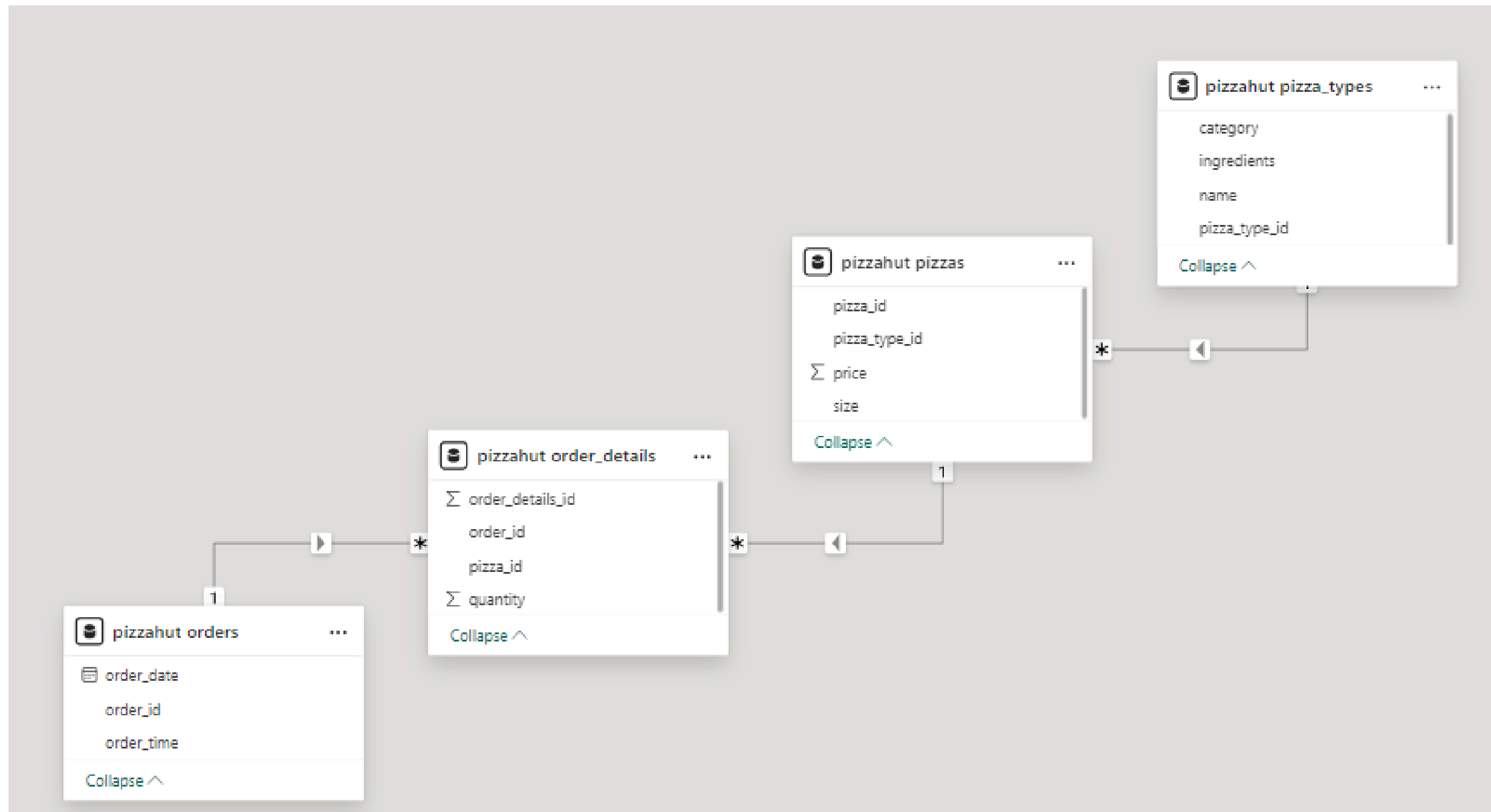


Objective:



To Answer The Questions Related To Pizza Sales

Schema:





Procudure:

- 1.)Created The Database
- 2.)Imported The csv Files Into Database as Tables
- 3.)Performed Data Querying

1.) Retrieve the total number of orders placed.

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

Result Grid				Filter Rows: <input type="text"/>
	total_orders			
▶	21350			

2._Calculate the total revenue generated from pizza sales.

```
-- Calculate the total revenue generated from pizza sales.  
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
```

Result Grid		Filter Rows:
	total_revenue	
▶	817860.05	

3.)Identify the highest-priced pizza.

```
-- Identify the highest-priced pizza.
```

```
SELECT
```

```
    pt.name, p.price
```

```
FROM
```

```
    pizza_types pt
```

```
    JOIN
```

```
    pizzas p ON p.pizza_type_id = pt.pizza_type_id
```

```
ORDER BY p.price DESC
```

```
LIMIT 1;
```

Result Grid			Filter Rows:	
	name	price		
▶	The Greek Pizza	35.95		

4.)Identify the most common pizza size ordered.

```
-- Identify the most common pizza size ordered.
```

```
SELECT
    p.size, COUNT(p.pizza_id) AS order_count
FROM
    order_details od
    JOIN
    pizzas p ON p.pizza_id = od.pizza_id
GROUP BY p.size
ORDER BY order_count DESC;
```

Result Grid			Filter Rows:
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

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

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

```
SELECT
    pt.name, sum(od.quantity) AS Quantities_Ordered
FROM
    pizza_types pt
    JOIN
    pizzas p ON p.pizza_type_id = pt.pizza_type_id
    JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY Quantities_Ordered DESC
LIMIT 5;
```

Result Grid			Filter Rows:
	name	Quantities_Ordered	
▶	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.

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

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

| Result Grid |          |          | Filter Rows: |
|-------------|----------|----------|--------------|
|             | category | quantity |              |
| ▶           | Classic  | 14888    |              |
|             | Supreme  | 11987    |              |
|             | Veggie   | 11649    |              |
|             | Chicken  | 11050    |              |

## 7.)Determine the distribution of orders by hour of the day

```
-- Determine the distribution of orders by hour of the day.
```

```
SELECT
 HOUR(order_time) AS hour, COUNT(order_id)
FROM
 orders
GROUP BY hour;
```

| Result Grid |      |                 | Filter Rows |
|-------------|------|-----------------|-------------|
|             | hour | count(order_id) |             |
| ▶           | 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.

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

```
SELECT
 category, COUNT(pizza_type_id) as quantity
FROM
 pizza_types
GROUP BY category;
```

| Result Grid |          |          | Filter Rows: |
|-------------|----------|----------|--------------|
|             | category | quantity |              |
| ▶           | Chicken  | 6        |              |
|             | Classic  | 8        |              |
|             | Supreme  | 9        |              |
|             | Veggie   | 9        |              |

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

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

```
with cte as(
 select o.order_date , sum(od.quantity) as quantity from order_details od
 join orders o on o.order_id=od.order_id
 group by o.order_date)
```

```
select round(avg(quantity),0) as averageOrderPerDay from cte;
```

| Result Grid |                    | Filter Rows: |
|-------------|--------------------|--------------|
|             | averageOrderPerDay |              |
| ▶           | 138                |              |

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

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

```
SELECT
```

```
 pt.name, SUM(p.price * od.quantity) AS revenue
```

```
FROM
```

```
 pizza_types pt
```

```
 JOIN
```

```
 pizzas p ON p.pizza_type_id = pt.pizza_type_id
```

```
 JOIN
```

```
 order_details od ON od.pizza_id = p.pizza_id
```

```
GROUP BY pt.name
```

```
ORDER BY revenue DESC
```

```
LIMIT 3;
```

| Result Grid |                              |          | Filter Rows: |
|-------------|------------------------------|----------|--------------|
|             | 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 type to total revenue.

```
-- Calculate the percentage contribution of each pizza type to total revenue.
SELECT
 pt.category,
 CONCAT(ROUND((SUM(p.price * od.quantity) / (SELECT
 SUM(od.quantity * p.price)
 FROM
 pizzas p
 JOIN
 order_details od ON od.pizza_id = p.pizza_id)) * 100,
 2),
 '%') AS revenue_percentage
FROM
 pizza_types pt
 JOIN
 pizzas p ON p.pizza_type_id = pt.pizza_type_id
 JOIN
 order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category
ORDER BY revenue_percentage DESC;
```

| Result Grid |          |                    | Filter Rows: |
|-------------|----------|--------------------|--------------|
|             | category | revenue_percentage |              |
| ▶           | Classic  | 26.91%             |              |
|             | Supreme  | 25.46%             |              |
|             | Chicken  | 23.96%             |              |
|             | Veggie   | 23.68%             |              |

## 12.)Analyze the cumulative revenue generated over time.

```
-- Analyze the cumulative revenue generated over time
```

```
SELECT order_date ,
 SUM(revenue) OVER (ORDER BY order_date) AS cumulative_revenue
FROM
 (SELECT
 o.order_date, SUM(p.price * od.quantity) AS revenue
 FROM
 orders o
 JOIN
 order_details od ON od.order_id = o.order_id
 JOIN
 pizzas p ON p.pizza_id = od.pizza_id
 GROUP BY o.order_date) as table1;
```

| Result Grid |            |                     | Filter Rows: |
|-------------|------------|---------------------|--------------|
|             | order_date | cumulative_revenue  |              |
| ▶           | 2015-01-01 | 2713.85000000000004 |              |
|             | 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 | 18762.85            |              |



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

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

```
SELECT category , name , revenue from
(SELECT category , name , revenue ,
 dense_rank() OVER(partition by category order by revenue desc) AS rank_no
FROM
(SELECT
 pt.category, pt.name, SUM(p.price * od.quantity) AS revenue
FROM
 pizza_types pt
 JOIN
 pizzas p ON p.pizza_type_id = pt.pizza_type_id
 JOIN
 order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category , pt.name) AS a) AS b
WHERE rank_no <=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        | 32265.700000000065 |
|   | Veggie   | The Mexicana Pizza           | 26780.75           |
|   | Veggie   | The Five Cheese Pizza        | 26066.5            |

# THANK YOU !

