

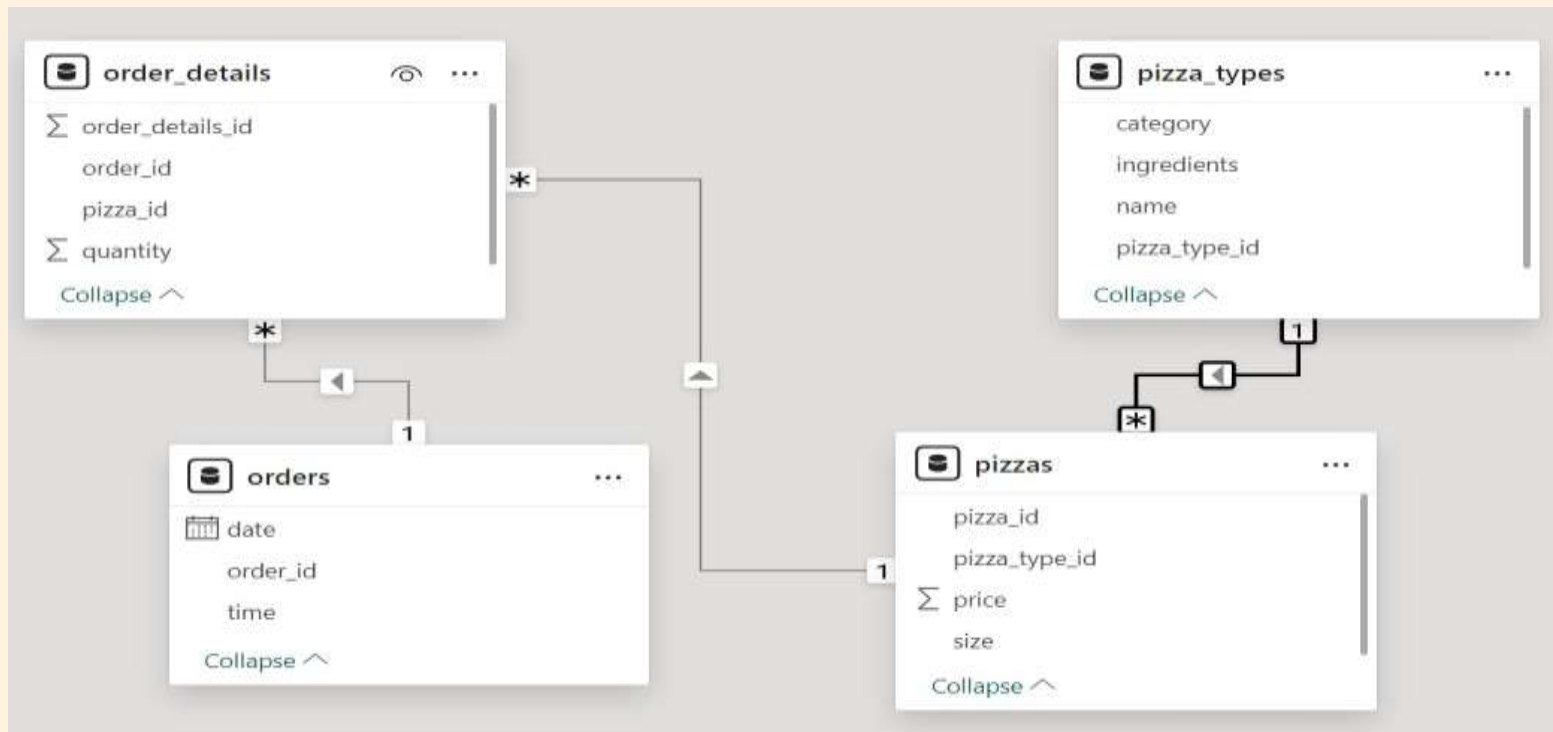


Pizza Sales Analysis





In this project, I have utilized SQL to
solve queries that are related to
Pizza sales.





Basic



Q1. Retrieve the total number of orders placed.

```
SELECT * FROM orders;  
SELECT count(order_id) FROM orders;
```

	count(order_id)
▶	21350



Q2. Calculate the total revenue generated from pizza sales.

```
SELECT * FROM pizzas;  
SELECT * FROM order_details;  
SELECT ROUND(SUM(price * quantity)) as Total_revenue  
FROM pizzas p JOIN order_details od ON p.pizza_id = od.pizza_id;
```

	Total_revenue
▶	817860



Q3. Identify the highest-priced pizza

```
SELECT * FROM pizzas;  
SELECT * FROM pizza_types;  
SELECT name, price  
FROM pizzas p JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id  
ORDER BY price DESC  
LIMIT 1;
```

	name	price
▶	The Greek Pizza	35.95



Q4. Identify the most common pizza size ordered.

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

	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



Q5. Find the category-wise distribution of pizzas.

```
SELECT * FROM pizza_types;  
SELECT category, count(name) FROM pizza_types  
GROUP BY category;
```

	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



Intermediate



Q6. Join the necessary tables to find the total quantity of each pizza category ordered.

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

	category	Total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



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

```
SELECT hour(time) as Hours, count(order_id) as Total_count  
FROM orders  
GROUP BY Hours  
ORDER BY Total_count DESC;
```

	Hours	Total_count
▶	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920



Q8. List the top 5 most ordered pizza types along with their quantities

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

	name	Total_Quantity
►	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371



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

```
SELECT Round(avg(Total_quantity),0) as avg_orders_per_day
FROM
(SELECT date, SUM(od.quantity) as Total_quantity
FROM orders o JOIN order_details od ON o.order_id = od.order_id
GROUP BY date) as order_quantity;
```

Result Grid	
	avg_orders_per_day
▶	138



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

```
SELECT name, round(sum(quantity * price)) as revenue
FROM pizzas p JOIN order_details od ON p.pizza_id = od.pizza_id
JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY name
ORDER BY revenue DESC
LIMIT 3;
```

	name	revenue
▶	The Thai Chicken Pizza	43434
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41410



Advance



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

```
SELECT category,  
       round((SUM(quantity * price) /  
             (SELECT ROUND(SUM(quantity * price))  
               FROM pizza_types pt  
               JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id  
               JOIN order_details od ON od.pizza_id = p.pizza_id  
             )  
             ) * 100) AS revenue  
FROM  
     pizza_types pt  
JOIN  
     pizzas p ON pt.pizza_type_id = p.pizza_type_id  
JOIN  
     order_details od ON od.pizza_id = p.pizza_id  
GROUP BY category  
ORDER BY revenue DESC;
```

	category	revenue
▶	Classic	27
	Supreme	25
	Veggie	24
	Chicken	24



Q12. Analyze the cumulative revenue generated over time.

```
SELECT date, sum(revenue) OVER(ORDER BY date) AS cum_revenue
FROM
  (SELECT date,
    round(SUM(quantity * price)) 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 date) AS sales;
```

	date	cum_revenue
▶	2015-01-01	2714
	2015-01-02	5446
	2015-01-03	8108
	2015-01-04	9863
	2015-01-05	11929
	2015-01-06	14358
	2015-01-07	16560
	2015-01-08	19398



Q13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
SELECT name, category, revenue
FROM
  (SELECT name, category, revenue,
    RANK() OVER(partition by category ORDER BY revenue DESC) as rn
  FROM
    (SELECT category, name, round(SUM(quantity * price)) as revenue
    FROM pizza_types pt JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN order_details od ON p.pizza_id = od.pizza_id
    GROUP BY category, name) as a) as b
WHERE rn<=3;
```

	name	category	revenue
▶	The Thai Chicken Pizza	Chicken	43434
	The Barbecue Chicken Pizza	Chicken	42768
	The California Chicken Pizza	Chicken	41410
	The Classic Deluxe Pizza	Classic	38180
	The Hawaiian Pizza	Classic	32273
	The Pepperoni Pizza	Classic	30162
	The Spicy Italian Pizza	Supreme	34831
	The Italian Supreme Pizza	Supreme	33477
	The Sicilian Pizza	Supreme	30040



Thank You