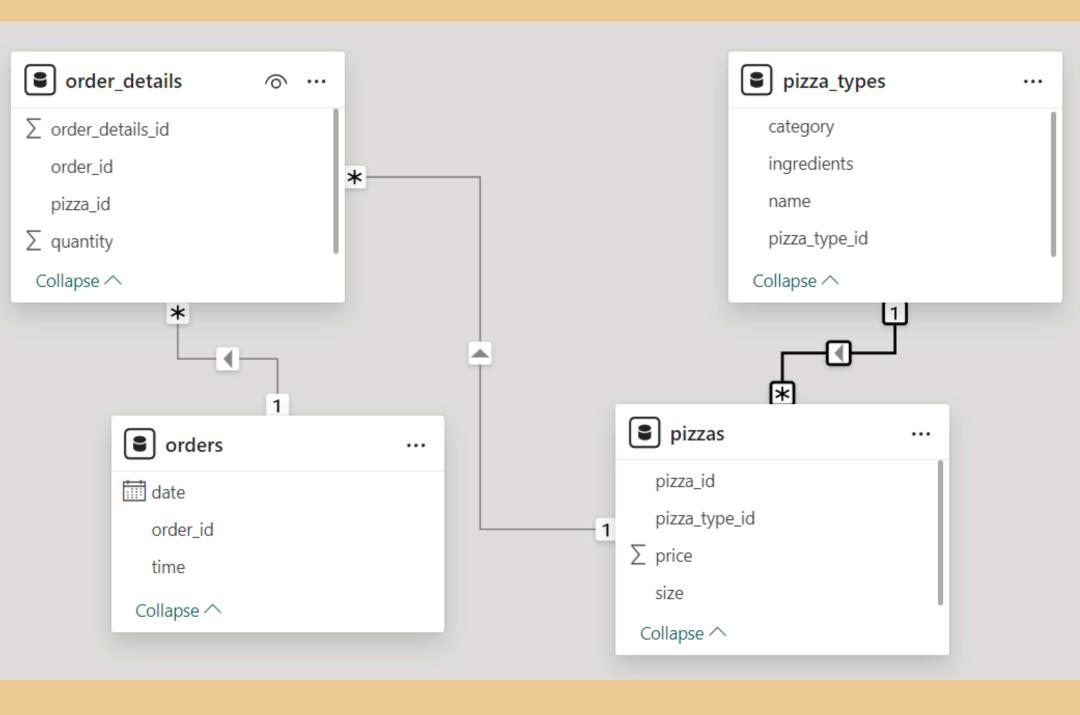


SALES ANALYSIS

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

Data Model



BASIC

Q1. Retrieve the total number of orders placed.

```
select count(order_id) as total_orders from orders;
```



Q2. Calculate the total revenue generated from pizza sales.

```
SELECT

ROUND(SUM(pizzas.price * order_details.quantity),

2) AS total_revenue

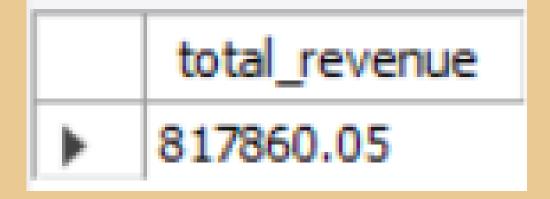
FROM

pizzas

JOIN

order_details ON pizzas.pizza_id = order_details.pizza_id;

;
```



Q3. Identify the highest-priced pizza.

| | name | price |
|-------------|-----------------|-------|
| > | The Greek Pizza | 35.95 |

Q4. Identify the most common pizza size ordered.

| | size | order_count |
|---|------|-------------|
| • | L | 18526 |
| | M | 15385 |
| | S | 14137 |
| | XL | 544 |
| | XXL | 28 |

Q5. find the category-wise distribution of pizzas.

```
SELECT

category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```

| | size | order_count |
|-------------|------|-------------|
| > | L | 18526 |
| | M | 15385 |
| | S | 14137 |
| | XL | 544 |
| | XXL | 28 |

INTERMIDIATE

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

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS total_quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.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(order_time) AS hour, COUNT(order_id) as order_count
FROM
   orders
GROUP BY hour;
```

| | category | total_quantity |
|-------------|----------|----------------|
| > | Classic | 14888 |
| | Supreme | 11987 |
| | Veggie | 11649 |
| | Chicken | 11050 |

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

| | name | 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(quantity), 0) AS avg_orders_per_day
FROM

(SELECT
    orders.order_date, SUM(order_details.quantity) AS quantity
FROM
    orders
JOIN order_details ON orders.order_id = order_details.order_id
GROUP BY orders.order_date) AS order_quantity;
```

```
avg_orders_per_day

138
```

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

| | name | revenue |
|-------------|------------------------------|----------|
| > | The Thai Chicken Pizza | 43434.25 |
| | The Barbecue Chicken Pizza | 42768 |
| | The California Chicken Pizza | 41409.5 |

ADVANCE

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

```
SELECT
    pizza types.category,
    round((SUM(order_details.quantity * pizzas.price) /
        (SELECT ROUND(SUM(order_details.quantity * pizzas.price),2)
         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
    ) * 100,2) AS revenue
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
    revenue DESC;
```

| | category | revenue |
|---|----------|---------|
| • | Classic | 26.91 |
| | Supreme | 25.46 |
| | Chicken | 23.96 |
| | Veggie | 23.68 |

Q12. Analyze the cumulative revenue generated over time.

```
SELECT order_date, sum(revenue) OVER(ORDER BY order_date) AS cum_revenue
FROM
```

```
(SELECT orders.order_date,
round(SUM(order_details.quantity * pizzas.price),2) as revenue
FROM order_details JOIN pizzas
ON order_details.pizza_id = pizzas.pizza_id
JOIN orders
ON orders.order_id = order_details.order_id
GROUP BY orders.order_date) AS sales;
```

| | order_date | cum_revenue |
|---|------------|-------------|
| • | 2015-01-01 | 2713.85 |
| | 2015-01-02 | 5445.75 |
| | 2015-01-03 | 8108.15 |
| | 2015-01-04 | 9863.6 |
| | 2015-01-05 | 11929.55 |

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

```
SELECT name, revenue
  FROM
RANK() OVER(PARTITION BY category ORDER BY revenue DESC) as rn
  FROM
⊖ (SELECT)
      pizza_types.category,
      pizza_types.name,
      SUM(order_details.quantity * pizzas.price) AS revenue
  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 , pizza_types.name) AS a) as b
  WHERE rn <= 3;
```

| | name | revenue |
|---|------------------------------|----------|
| • | The Thai Chicken Pizza | 43434.25 |
| | The Barbecue Chicken Pizza | 42768 |
| | The California Chicken Pizza | 41409.5 |
| | The Classic Deluxe Pizza | 38180.5 |
| | The Hawaiian Pizza | 32273.25 |
| | The Pepperoni Pizza | 30161.75 |