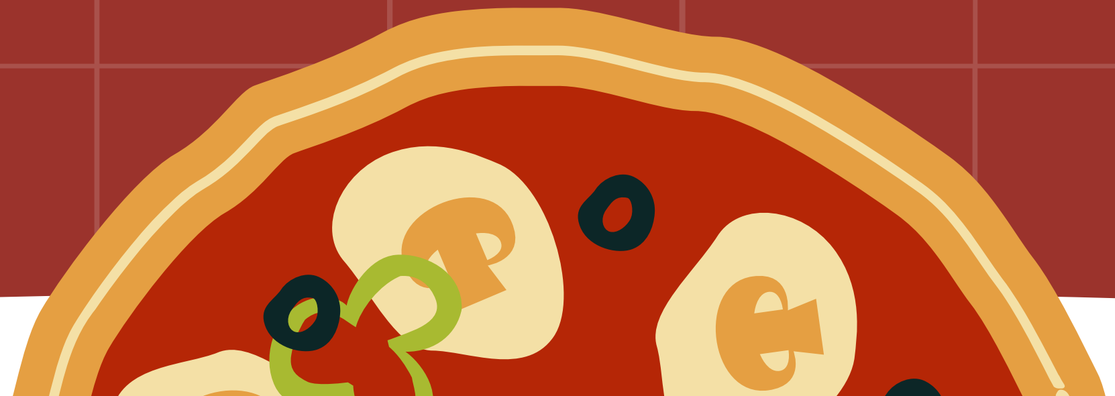
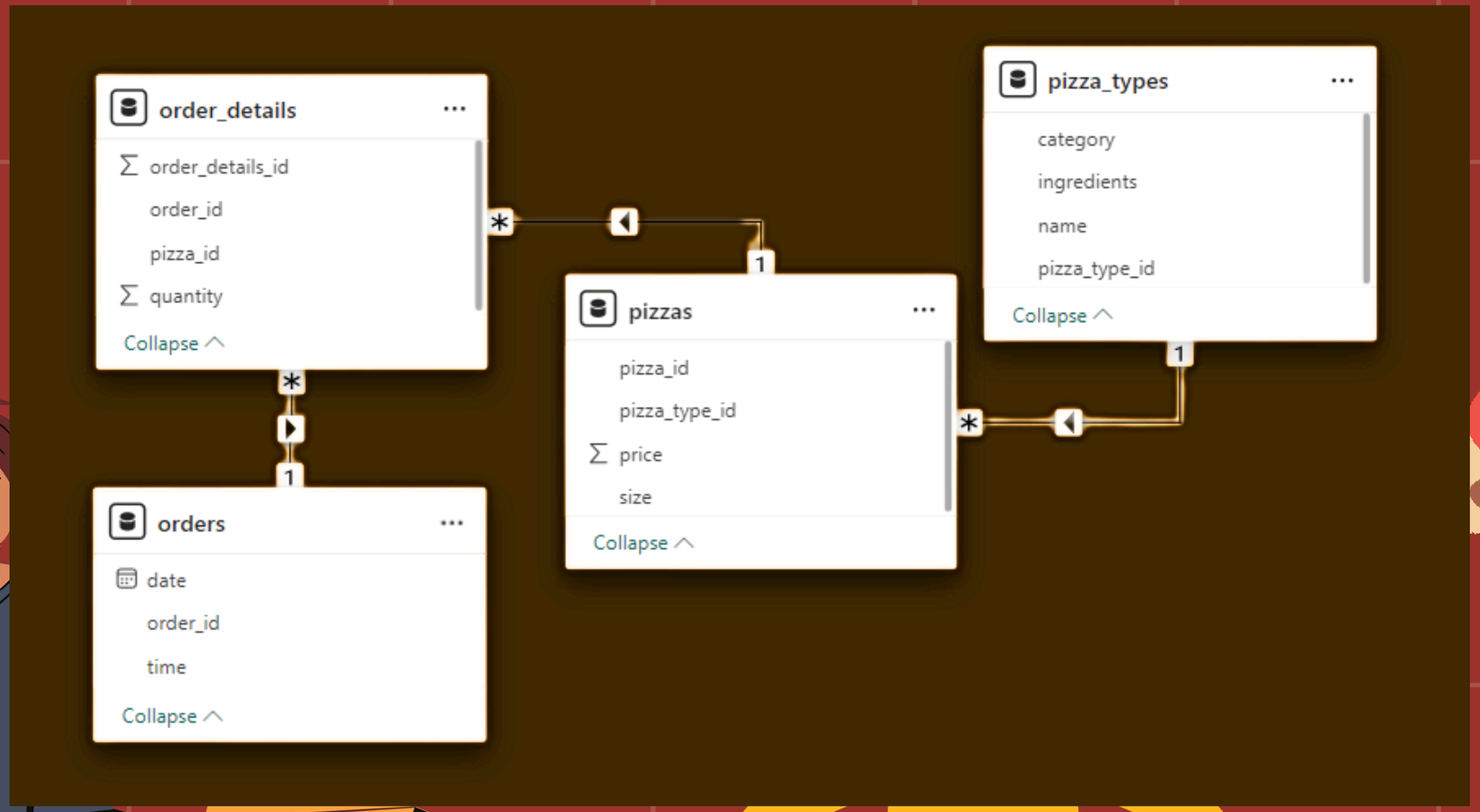
ASPICE SUTRA PIZZA

INTRODUCTION

Hello, my name is Garima. I have used my SQL skills to analyze and solve business queries related to pizza sales for Aspice Sutra, a startup food chain based in Bangalore. Aspice Sutra specializes in North Indian cuisine and has a unique focus on pizza. By applying my SQL knowledge, I identified and addressed several business issues, performing data analysis to find effective solutions.



ASPICE SUTRA DATABASE SCHEMA



Q)RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```sql
SELECT
    COUNT(order_id) AS Total_Orders
FROM
    orders;
```

Q) CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```sql
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price)) AS Total_Sales
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Q) IDENTIFY THE HIGHEST-PRICED PIZZA.

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

9) LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```sql
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
```

Q) IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```sql
SELECT
    SUM(pizza_id LIKE '%s'),
    SUM(pizza_id LIKE '%m'),
    SUM(pizza_id LIKE '%l'),
    SUM(pizza_id LIKE '%xl'),
    SUM(pizza_id LIKE '%xxl')
FROM
    order_details
```

Q)JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```sql
SELECT
    pizza_types.category, SUM(order_details.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
```

Q) DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```sql
SELECT
    HOUR(time), COUNT(order_id)
FROM
    orders
GROUP BY HOUR(time)
```

Q)JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

Q) GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

```sql
SELECT
    orders.date, SUM(order_details.quantity)
FROM
    orders
        JOIN
    order_details ON orders.order_id = order_details.order_id
GROUP BY orders.date
```

Q) DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```sql
SELECT
    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.name
ORDER BY revenue DESC
LIMIT 3
```

Q) CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```sql
SELECT
    pizza_types.name,
    (SUM(order_details.quantity * pizzas.price) / (SELECT
            ROUND(SUM(order_details.quantity * pizzas.price),
                    2) AS total_sales
        FROM
            order_details
                JOIN
            pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100 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.name
ORDER BY revenue DESC
```

Q) ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

```sql
select date,
sum(revenue) over(order by date) as cum_revenue

from

(select orders.date,
sum(order_details.quantity * pizzas.price) 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.date) as sales;
```

CONCLUSION

In this presentation, SQL has been utilized to address several business questions related to pizza sales data for Spice Sutra. The analysis provides valuable insights that can assist the brand in making informed decisions.

These analyses reveal important business insights such as peak ordering times, high-revenue-generating pizza types, and overall sales trends. These insights can help Spice Sutra optimize their menu offerings, improve inventory management, and develop effective marketing strategies to boost sales and enhance customer satisfaction.


THANK YOU