

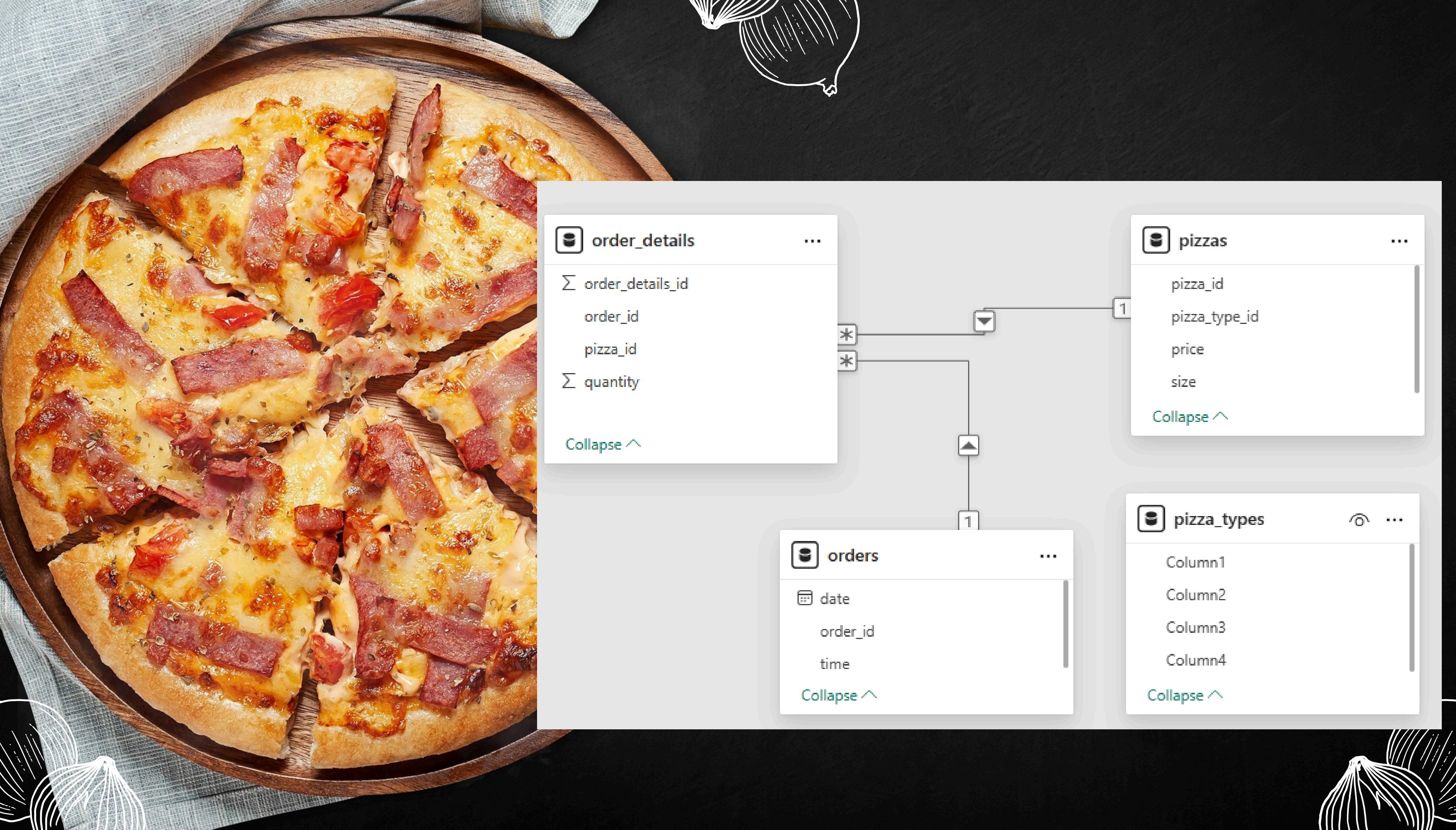
# PIZZA SALES



# INTRODUCTION

My name is Naveen Kumar and in this project, I have utilised SQL query to solve questions that are related to pizza sales.





# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT  
    COUNT(quantity) AS total_ordered  
FROM  
    order_details;
```

Result Grid	
	total_ordered
▶	48620

# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
SELECT  
    ROUND(SUM(pizzas.price * order_details.quantity),  
          0) AS total_revenue  
FROM  
    pizzas  
    JOIN  
    order_details ON pizzas.pizza_id = order_details.pizza_id;
```

	total_revenue
▶	817860

# 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 price DESC
LIMIT 1;
```

Result Grid | Filter Rows

	name	price
▶	The Greek Pizza	35.95

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT pizzas.size,  
       COUNT(order_details.order_details_id) AS common_order  
FROM pizzas  
      JOIN order_details ON pizzas.pizza_id = order_details.pizza_id  
GROUP BY pizzas.size  
ORDER BY common_order ASC  
LIMIT 1;
```

Result Grid | Filter

	size	common_order
▼	XXL	28

# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

**SELECT**

```
    pizza_types.name,  
    SUM(order_details.quantity) AS most_ordered  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
        JOIN  
    order_details ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.name  
ORDER BY most_ordered DESC  
LIMIT 5;
```

Result Grid | Filter Rows:

	name	most_ordered
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	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;
```

Result Grid

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

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

	hour	order_count
▶	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

# JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

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

	category	COUNT(name)
1	Chicken	6
2	Classic	8
3	Supreme	9
4	Veggie	9

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

```
SELECT  
    ROUND(AVG(quantity), 0) AS pizzas_ordered_per_day  
FROM  
    (SELECT  
        orders.date, SUM(order_details.quantity) AS quantity  
    FROM  
        orders  
    JOIN order_details ON orders.order_id = order_details.order_id  
    GROUP BY orders.date) AS order_quantity;
```

	Result Grid	Filter Row
	pizzas_ordered_per_day	138

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

SELECT

```
    pizza_types.name,  
    SUM(order_details.quantity * pizzas.price) AS revenue  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizzas.pizza_type_id = pizza_types.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;
```

Result Grid | Filter Rows:

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

# 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) AS total_sales  
FROM  
    order_details  
    JOIN  
    pizzas ON pizzas.pizza_id = order_details.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;
```

Result Grid | Filter

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

```
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;
```

	date	cum_revenue
▶	2015-01-01	2713.8500000000004
	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	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.35000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.30000000003
	2015-01-14	32358.70000000004
	2015-01-15	34343.50000000001

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
① (select category, name, revenue,  
rank() over(partition by category order by revenue desc) as rn  
from  
② (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
	The Spicy Italian Pizza	34831.25
	The Italian Supreme Pizza	33476.75
	The Sicilian Pizza	30940.5
	The Four Cheese Pizza	32265.7000
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5

# THANK YOU!

