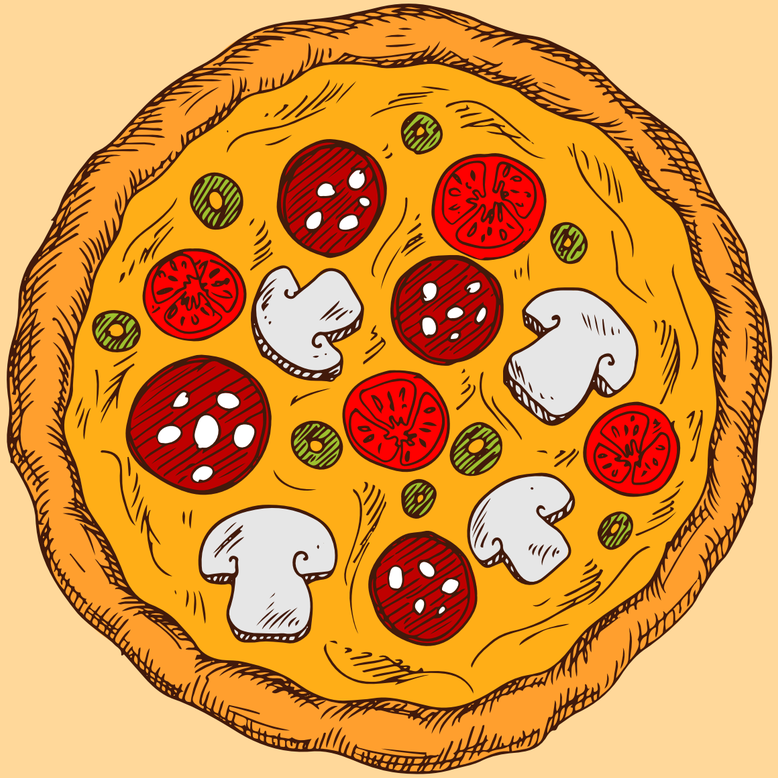
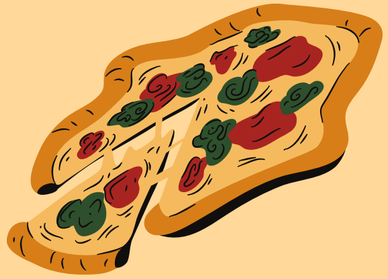


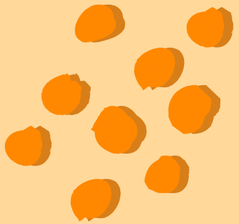
SQL PROJECT ON PIZZA SALES

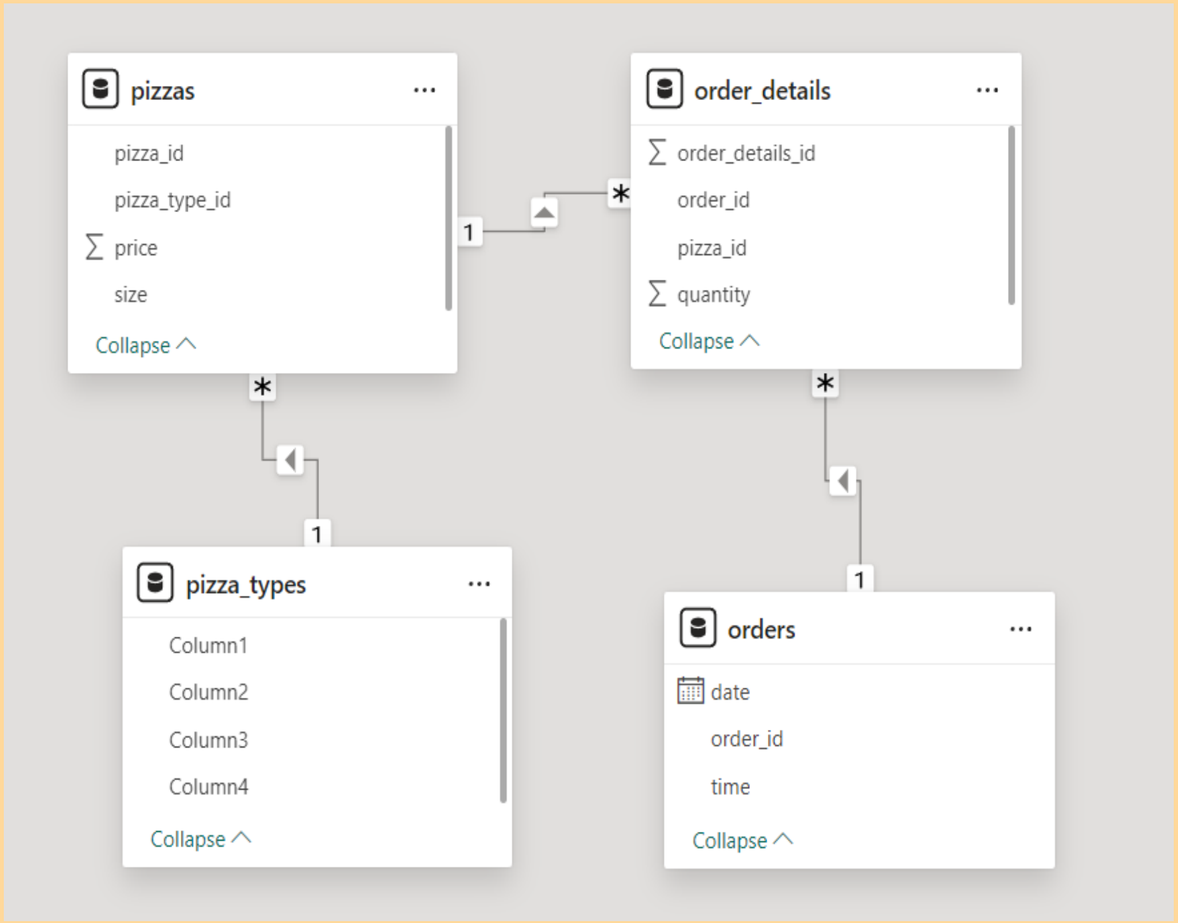


Hello!

Hi, I'm Sainath Reddy, and in this pizza sales project, I've leveraged SQL queries to dive into our sales data and extract valuable insights. By analyzing trends, calculating revenues, and identifying top-selling categories

Pizza sales Schema





Retrieve the total number of orders placed

```
select count(*)
 as totoal_no_of_orders
   from orders;
```

Result Grid | Filter Rows

	totoal_no_of_orders
▶	21350

Calculate the total revenue generated from pizza sales

```sql
select round(sum(o.quantity*p.price),2) as total_sales
from pizzas as p
 inner join orders_details as o
    on o.pizza_id=p.pizza_id ;
```

Result Grid | Filter Rows:

total_sales
817860.05

Identify the highest-priced pizza

```sql
select pt.name,max(p.price) as highest_price
from pizzas as p inner join pizza_types as pt
on pt.pizza_type_id=p.pizza_type_id
group by pt.name
order by highest_price desc
limit 1;
```

Result Grid | Filter Rows:

name	highest_price
The Greek Pizza	35.95

Identify the most common pizza size ordered

```sql
select p.size,count(o.order_details_id) as count_of_pizzas
from pizzas as p
inner join orders_details as o
on o.pizza_id=p.pizza_id
group by size
order by count_of_pizzas desc;
```

Result Grid | Filter Rows:

size	count_of_pizzas
L	18526
M	15385
S	14137
XL	544
XXL	28

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

```sql
select pt.name, sum(o.quantity) as total_quantity
from pizza_types as pt
inner join pizzas as p on p.pizza_type_id=pt.pizza_type_id
inner join orders_details as o
on o.pizza_id=p.pizza_id
group by pt.name
order by total_quantity desc
limit 5;
```

Result Grid | Filter Rows:

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

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

```
select pt.category,sum(o.quantity) as total_quantity
 from orders_details as o
inner join pizzas as p on p.pizza_id=o.pizza_id
inner join pizza_types as pt on pt.pizza_type_id=p.pizza_type_id
group by pt.category
order by total_quantity desc;
```

Result Grid | Filter Rows:

category	total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day

```
select hour(order_time),count(order_id) as total_orders from orders
group by hour(order_time)
order by total_orders desc;
```

Result Grid | Filter Rows:

hour(order_time)	total_orders
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231
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;
```

Result Grid | Filter R

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

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

```
select round(avg(total_quantity),2) as avg_no_of_pizza_perday from
(select order_date,sum(od.quantity) as total_quantity
from orders as o inner join orders_details as od on
od.order_id=o.order_id
group by order_date) as d ;
```

Result Grid | Filter Ro

	avg_no_of_pizza_perday
▶	138.47

Determine the op 3 most ordered pizza types based on revenue

```sql
select pt.name,round(sum(o.quantity*p.price),2) as revenue from pizzas as p
 inner join orders_details as o
on o.pizza_id=p.pizza_id inner join pizza_types as pt on pt.pizza_type_id=p.pizza_type_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

Calculate the percentage contribution of each pizza type to total revenue

```
select pt.category,(sum(p.price * od.quantity) /(select round(sum(o.quantity*p.price),2)
 as revenue from pizzas as p
 inner join orders_details as o
on o.pizza_id=p.pizza_id inner join pizza_types as pt
on pt.pizza_type_id=p.pizza_type_id))*100 as rev from pizza_types as pt
inner join pizzas as p on pt.pizza_type_id=p.pizza_type_id
inner join orders_details as od on od.pizza_id=p.pizza_id
group by pt.category;
```

Result Grid | Filter Rows:

category	rev
Classic	26.90596025566967
Veggie	23.682590927384577
Supreme	25.45631126009862
Chicken	23.955137556847287

Analyze the cumulative revenue generated over time

```
select order_date,
sum(revenue)over(order by order_date) as cummulative_revenue from
(select od.order_date ,round(sum(o.quantity*p.price),2) as revenue from pizzas as p
inner join orders_details as o on o.pizza_id=p.pizza_id
inner join orders  as od on od.order_id=o.order_id
group by od.order_date) as a;
```

Result Grid | Filter Rows:

order_date	cummulative_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
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.399999999998
2015-01-10	23990.35
2015-01-11	25862.649999999998
2015-01-12	27781.699999999997
2015-01-13	29831.299999999996
2015-01-14	32358.699999999997
2015-01-15	34343.5
2015-01-16	36937.65
2015-01-17	39001.75

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

```sql
select name, category,total_sales from
(select name,category,total_sales,
rank()over(partition by category order by  total_sales desc) as rnk
from
(select pt.name,pt.category,round(sum(o.quantity*p.price),2) as total_sales from
 pizzas as p
inner join orders_details as o
on o.pizza_id=p.pizza_id
inner join pizza_types as pt on pt.pizza_type_id=p.pizza_type_id
group by pt.name,pt.category) as a) as aa
where rnk<=3;
```

Result Grid | Filter Rows:

name	category	total_sales
The Thai Chicken Pizza	Chicken	43434.25
The Barbecue Chicken Pizza	Chicken	42768
The California Chicken Pizza	Chicken	41409.5
The Classic Deluxe Pizza	Classic	38180.5
The Hawaiian Pizza	Classic	32273.25
The Pepperoni Pizza	Classic	30161.75
The Spicy Italian Pizza	Supreme	34831.25
The Italian Supreme Pizza	Supreme	33476.75
The Sicilian Pizza	Supreme	30940.5
The Four Cheese Pizza	Veggie	32265.7
The Mexicana Pizza	Veggie	26780.75
The Five Cheese Pizza	Veggie	26066.5