

I AM SUBHANKAR SAHA. THIS PROJECT IS ABOUT
PIZZA SALES WITH THE HELP OF SQL.

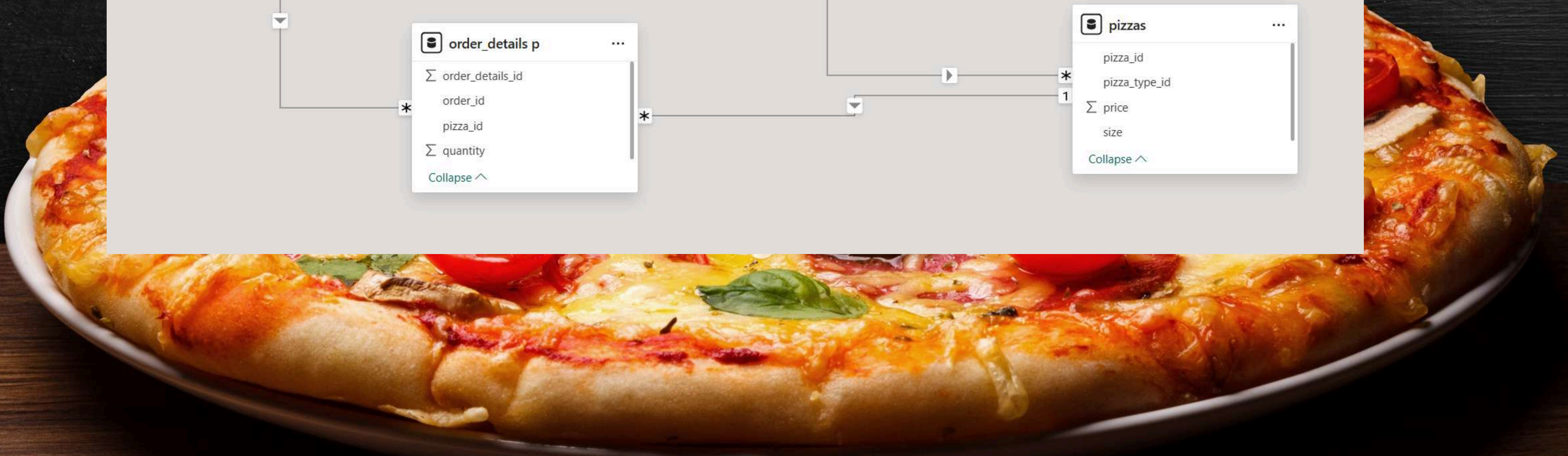


orders p	...
date	
order_id	
time	
Collapse ^	

pizza_types p	...
category	
ingredients	
name	
pizza_type_id	
Collapse ^	

order_details p	...
Σ order_details_id	
order_id	
pizza_id	
Σ quantity	
Collapse ^	

pizzas	...
pizza_id	
pizza_type_id	
Σ price	
size	
Collapse ^	





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
select sum(order_details.quantity * pizzas. price) as revenue  
from order_details join pizzas on order_details.pizza_id=pizzas.pizza_id ;
```

	revenue
▶	817860.0499999993

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

	count(order_id)
▶	21350



IDENTIFY THE HIGHEST PRICED PIZZA.

```
select pizza_id, sum(price) as total_price  
from pizzas group by pizza_id order by total_price desc limit 1;
```

	pizza_id	total_price
▶	the_greek_xxl	35.95





IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
select count(order_id),size
from pizzas join order_details on pizzas.pizza_id=order_details.pizza_id
group by size order by count(order_id) desc;
```

Result Grid			Filter Rows
	count(order_id)	size	
▶	18526	L	
	15385	M	
	14137	S	
	544	XL	
	28	XXL	





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

```
select pizza_type_id,sum(quantity) as total_quantity  
from order_details join pizzas on order_details.pizza_id=pizzas.pizza_id  
group by pizza_type_id order by total_quantity desc limit 5;
```

Result Grid		Filter Rows:
	pizza_type_id	total_quantity
▶	classic_dlx	2453
	bbq_ckn	2432
	hawaiian	2422
	pepperoni	2418
	thai_ckn	2371





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

```
select category, sum(quantity)
from order_details join pizzas on order_details.pizza_id=pizzas.pizza_id join
pizza_types on pizza_types.pizza_type_id=pizzas.pizza_type_id
group by category order by sum( quantity) desc;
```

Result Grid			Filter
	category	sum(quantity)	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	





DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
select count(order_id),hour(time) from orders group by hour(time)
```

	count(order_id)	hour(time)
▶	1231	11
	2520	12
	2455	13
	1472	14
	1468	15
	1920	16
	2336	17
	2399	18
	2009	19
	1642	20
	1198	21
	663	22
	28	23
	8	10





JOIN RELEVANT TABLES TO FIND THE CATEGORY WISE DISTRIBUTION OF PIZZA.

```
select count(order_id),hour(time) from orders group by hour(time);
```

	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 avg(order_id),date from orders group by date;
```

	avg(order_id)	date
▶	35.0000	2015-01-01
	103.0000	2015-01-02
	169.5000	2015-01-03
	228.5000	2015-01-04
	281.5000	2015-01-05
	340.5000	2015-01-06
	401.5000	2015-01-07
	466.5000	2015-01-08
	533.5000	2015-01-09
	597.0000	2015-01-10
	655.5000	2015-01-11
	709.0000	2015-01-12
	760.5000	2015-01-13
	815.5000	2015-01-14
	877.5000	2015-01-15
	942.0000	2015-01-16



DETERMINE THE TOP 3 MOST ORDERED PIZZAS ORDER BASED ON REVENUE.

```
select sum(order_details.quantity * pizzas. price) as revenue,pizzas.pizza_type_id
from order_details join pizzas on order_details.pizza_id=pizzas.pizza_id join
pizza_types on pizzas.pizza_type_id= pizza_types.pizza_type_id
group by pizzas.pizza_type_id order by revenue desc limit 3;
```

	revenue	pizza_type_id
▶	43434.25	thai_dcn
	42768	bbq_dcn
	41409.5	cali_dcn



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE OF 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;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

ANALYZE THE CUMILATIVE REVENUE GENERATED OVER TIME.

```
select date,sum(revenue) over(order by date) from
(select sum(order_details.quantity * pizzas. price) as revenue,date 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 order by revenue desc) as sales;
```

	revenue	name
▶	43434.25	The Thai Chicken Pizza
	42768	The Barbecue Chicken Pizza
	41409.5	The California Chicken Pizza
	38180.5	The Classic Deluxe Pizza
	34831.25	The Spicy Italian Pizza
	34705.75	The Southwest Chicken Pizz
	33476.75	The Italian Supreme Pizza
	32273.25	The Hawaiian Pizza
	32265.700000000065	The Four Cheese Pizza
	30940.5	The Sicilian Pizza
	30161.75	The Pepperoni Pizza
	28454.100000000013	The Greek Pizza
	26780.75	The Mexicana Pizza
	26066.5	The Five Cheese Pizza
	25529	The Pepper Salami Pizza
	25004	The Italian Sausage Pizza



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

```
select category,name,revenue from
(select category,name,revenue,rank() over (partition by category order by revenue desc) as rn from
(select sum(order_details.quantity * pizzas. price) as revenue,pizza_types.category,pizza_types.name from order_detail
join pizzas on order_details.pizza_id=pizzas.pizza_id join pizza_types on pizzas.pizza_type_id= pizza_types.pizza_type
group by pizza_types.category,pizza_types.name order by revenue desc) as a )as b where rn <=3;
```

	revenue	name
►	43434.25	The Thai Chicken Pizza
	42768	The Barbecue Chicken Pizza
	41409.5	The California Chicken Pizza
	38180.5	The Classic Deluxe Pizza
	34831.25	The Spicy Italian Pizza
	34705.75	The Southwest Chicken Pizz
	33476.75	The Italian Supreme Pizza
	32273.25	The Hawaiian Pizza
	32265.700000000065	The Four Cheese Pizza
	30940.5	The Sicilian Pizza
	30161.75	The Pepperoni Pizza
	28454.100000000013	The Greek Pizza
	26780.75	The Mexicana Pizza
	26066.5	The Five Cheese Pizza
	25529	The Pepper Salami Pizza
	25004	The Italian Capriccio Pizz

