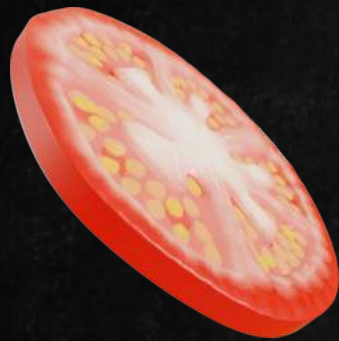
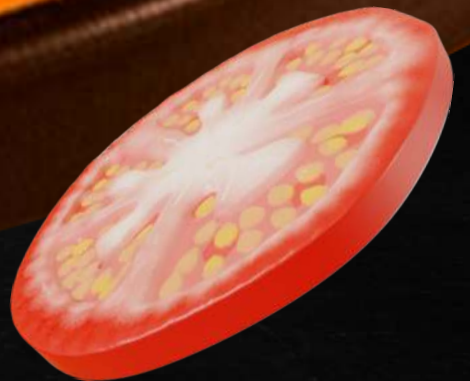


SQL PIZZA SALES PROJECT



BY
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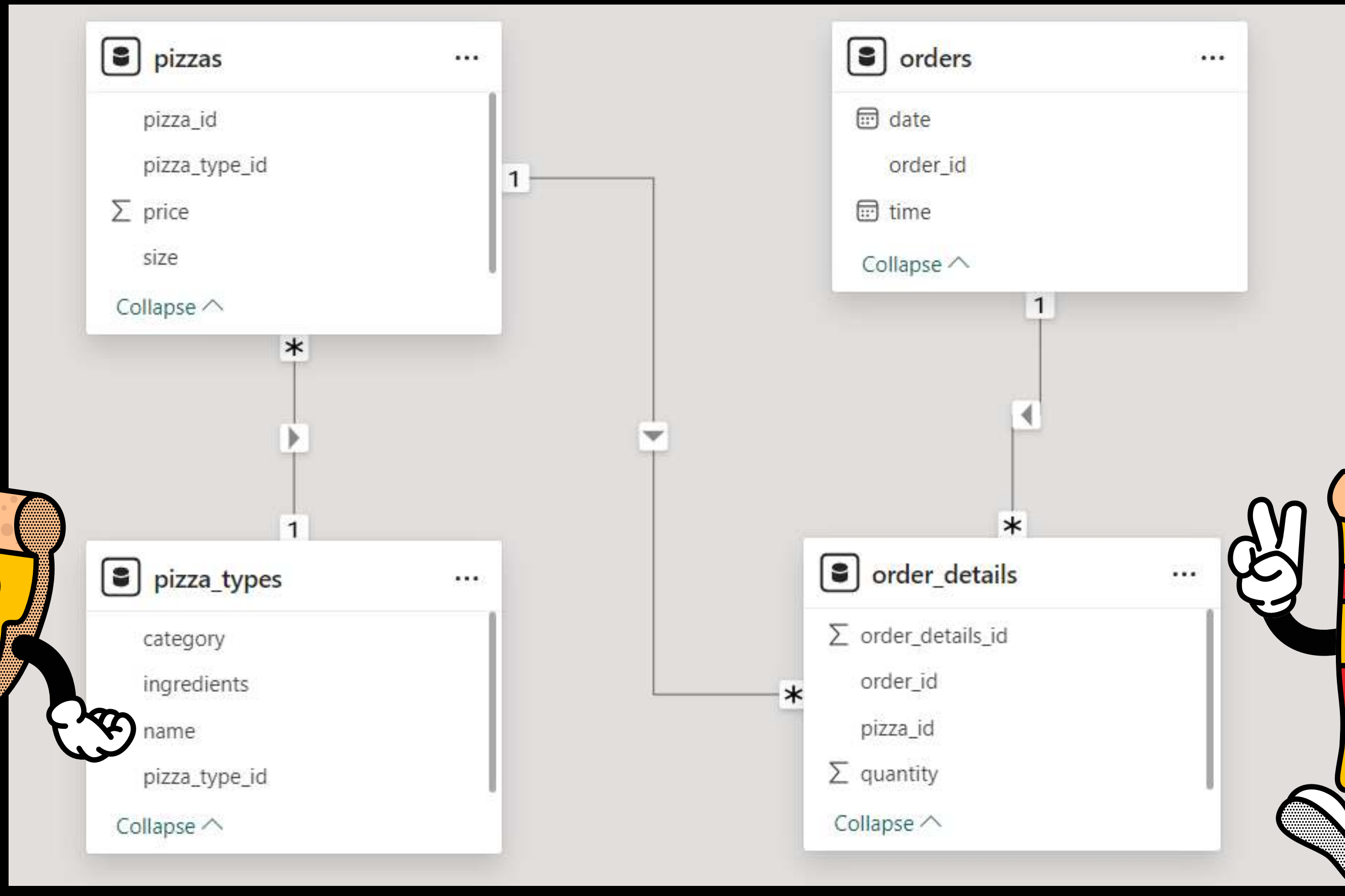


OBJECTIVE

Welcome to my presentation on analyzing pizza sales data using SQL. This project demonstrates my journey from basic SQL queries to advanced data analysis techniques. Throughout this presentation, we'll explore how SQL can transform raw pizza sales data into meaningful insights.



DATABASE SCHEMA



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT
```

```
    COUNT(order_id) AS Total_Orders
```

```
FROM
```

```
orders;
```

FIRST QUERY



Result Grid	
	Total_Orders
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SELECT

```
ROUND(SUM(orders_details.quantity * pizzas.price),  
2) AS Total_Revenue
```

FROM

orders_details

JOIN

```
pizzas ON pizzas.pizza_id = orders_details.pizza_id;
```



Result Grid	
	Total_Revenue
▶	817860.05

Second Query

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 pizzas.price DESC
LIMIT 1;
```



Result Grid			Filter Rows
	name	price	
▶	The Greek Pizza	35.95	

Third Query

Identify the most common pizza size ordered.

```
SELECT
```

```
    pizzas.size,
```

```
    COUNT(orders_details.order_details_id) AS order_count
```

```
FROM
```

```
    pizzas
```

```
    JOIN
```

```
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
```

```
GROUP BY pizzas.size
```

```
ORDER BY order_count DESC;
```



Result Grid				
	size	order_count		
▶	L	18526		
	M	15385		
	S	14137		
	XL	544		
	XXL	28		

Fourth Query

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

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



Result Grid			Filter Rows:	
	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		

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

```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```



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

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(order_time);
```



Result Grid			Filter
	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;
```



Result Grid			Filter Rows
	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(quantity), 0) AS avg_pizza_order_per_day
FROM
    (SELECT
        orders.order_date, SUM(orders_details.quantity) AS quantity
    FROM
        orders
    JOIN orders_details ON orders.order_id = orders_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

Ninth Query



Result Grid		Filter Rows
	avg_pizza_order_per_day	
▶	138	

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

```
select pizza_types.name,  
sum(orders_details.quantity*pizzas.price) as revenue  
from pizza_types join pizzas  
on pizzas.pizza_type_id=pizza_types.pizza_type_id  
join orders_details  
on orders_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(orders_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(orders_details.quantity * pizzas.price),
            2) AS total_sales
    FROM
        orders_details
        JOIN
        pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,
    2) AS Revenue
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON orders_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	

Eleventh Query

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,  
sum(orders_details.quantity*pizzas.price) as Revenue  
from orders_details join pizzas  
on orders_details.pizza_id=pizzas.pizza_id  
join orders  
on orders.Order_id=orders_details.Order_id  
group by order_date) as Sales;
```



Result Grid		Filter Rows:
	order_date	Cum_Revenue
▶	2015-01-01	2713.85000000000004
	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	23990.3500000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.3000000000003
	2015-01-14	32358.7000000000004
	2015-01-15	34343.500000000001
	2015-01-16	36937.650000000001
	2015-01-17	39001.750000000001

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

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



Result Grid			Filter Rows:
	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	32265.700000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	

Youtube Channel

Food Channel

Thank You!

