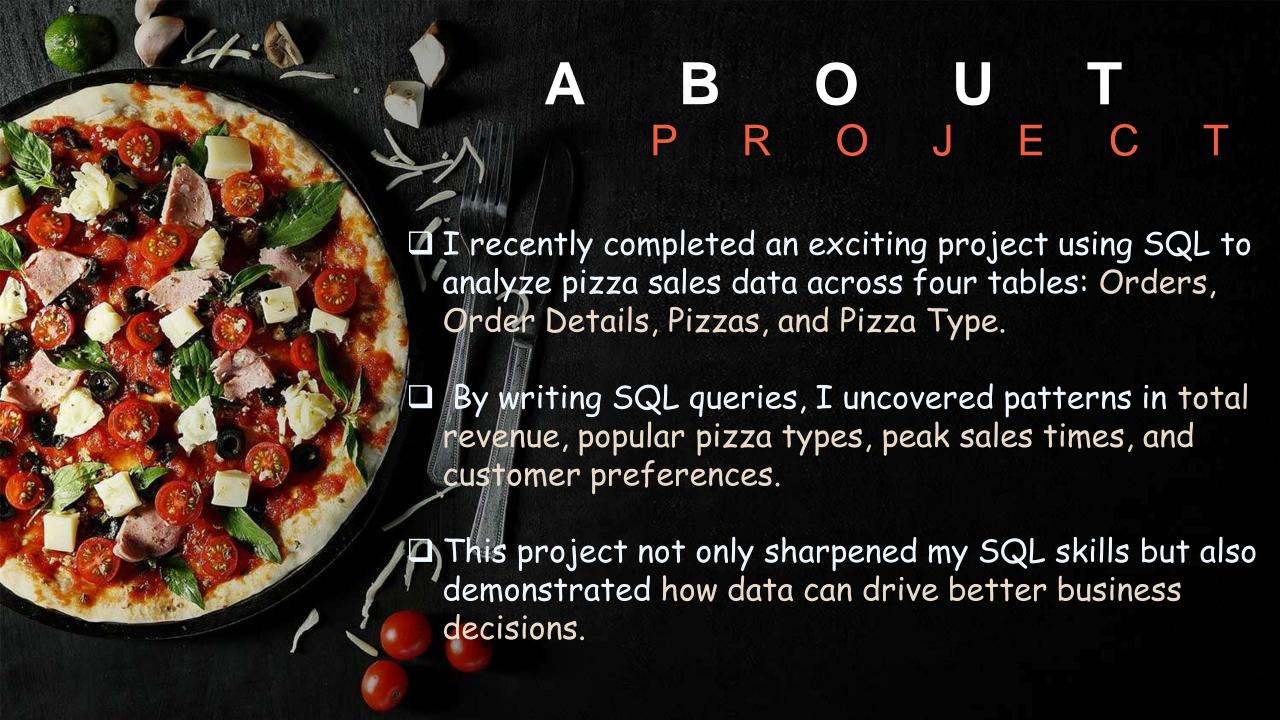
PIZZA SALES ANALYSIS USING SQL

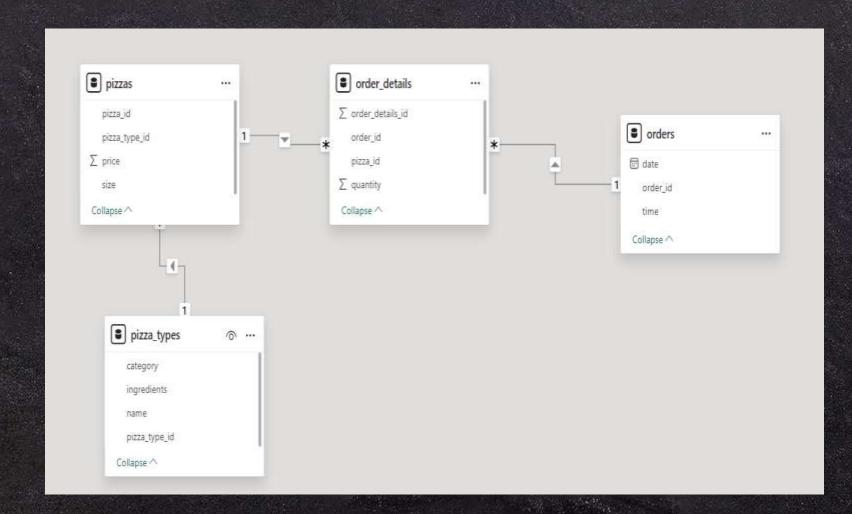
BASIC TO ADVANCE

Who doesn't like pizza?





RELATIONSHIP BETWEEN T A B L E S



A many-to-one relationship exists when multiple rows in a child table relate to a single row in a parent table.



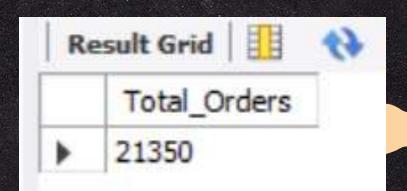


```
SELECT

COUNT(id) AS Total_Orders

FROM

Orders;
```



Calculate the total revenue generated from pizza sales.

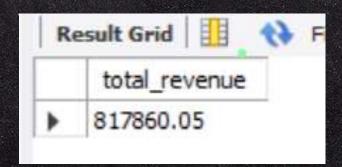
```
ROUND(SUM(pizzas.price * orders_details.quantity), 2) AS total_revenue

FROM

orders_details

JOIN

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





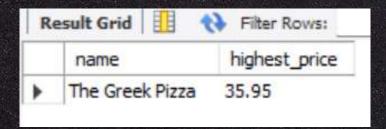


Identify the highest-priced pizza

```
pizza_types.name, pizzas.price AS highest_price
FROM

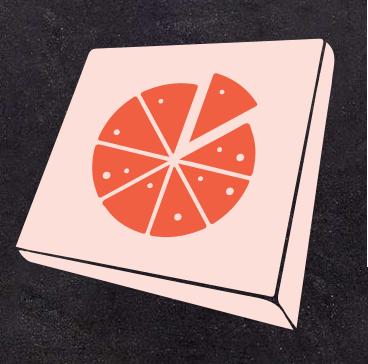
pizza_types
    JOIN

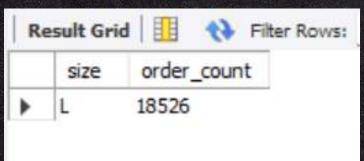
pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```





Identify the most common pizza size ordered.



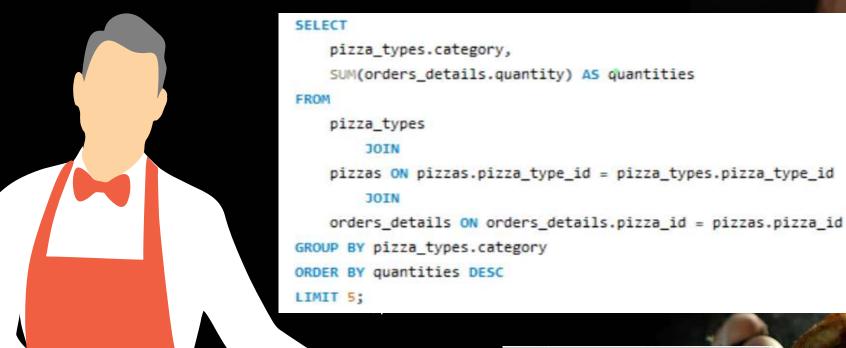


List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantities
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 quantities DESC
LIMIT 5;
```

	name	quantities	
١	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.



category quantities

Classic 14888
Supreme 11987
Veggie 11649
Chicken 11050

Join relevant tables to find the category-wise distribution of pizzas.

Determine the distribution of orders by hour of the day

```
pizza_types.category,
    COUNT(pizza_types.pizza_type_id) AS count

FROM
    pizza_types

GROUP BY pizza_types.category
```

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

	category	count
١	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



	hour	count(id)
١	12	2520
	13	2455
	18	2399
	17	2336
	19	2009

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

Determine the top 3 most ordered pizza types based on revenue

```
FROM

(SELECT

orders.order_date AS order_date,

SUM(orders_details.quantity) AS quantity

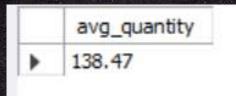
FROM

orders

JOIN orders_details ON orders_details.order_id = orders.id

GROUP BY orders.order_date) AS order_quantity;
```

```
SELECT
    pizza_types.name,
    round(SUM(orders_details.quantity * pizzas.price),2) AS Revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza_types.name
ORDER BY Revenue
LIMIT 3;
```



	name	Revenue
Þ	The Brie Carre Pizza	11588.5
	The Green Garden Pizza	13955.75
	The Spinach Supreme Pizza	15277.75

Calculate the percentage contribution of each pizza type to total revenue



category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

```
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 pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
   orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Analyze the cumulative revenue generated over time.

```
select order_date,
sum(revenue) over(order by order_date) as cumulative_revenue
from
(select orders.order_date, sum(pizzas.price*orders_details.quantity) as revenue
from orders_details
join pizzas on pizzas.pizza_id = orders_details.pizza_id
join orders on orders_details.order_id = orders.id
group by orders.order_date) as rev_sales;
```





order_date	cumulative_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





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

ADMINISTRATION OF SECURITY OF	SERVIN BURNON WAY SAN WHILD SERVING WAY
name	revenue
The Chicken Pesto Pizza	16701.75
The Chicken Alfredo Pizza	16900.25
The Southwest Chicken Pizza	34705.75
The Pepperoni, Mushroom, and Peppers Pizza	18834.5
The Big Meat Pizza	22968
The Control of the Co	



