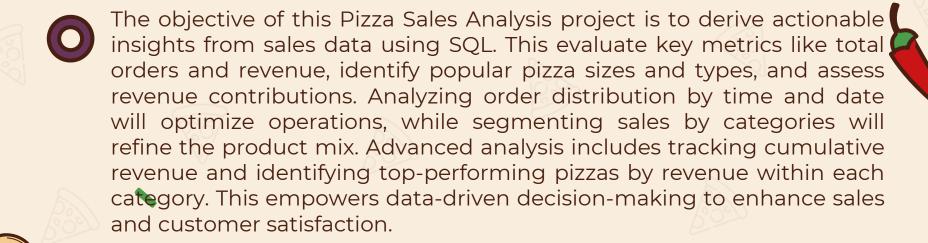
PIZZASALES ANALYSIS

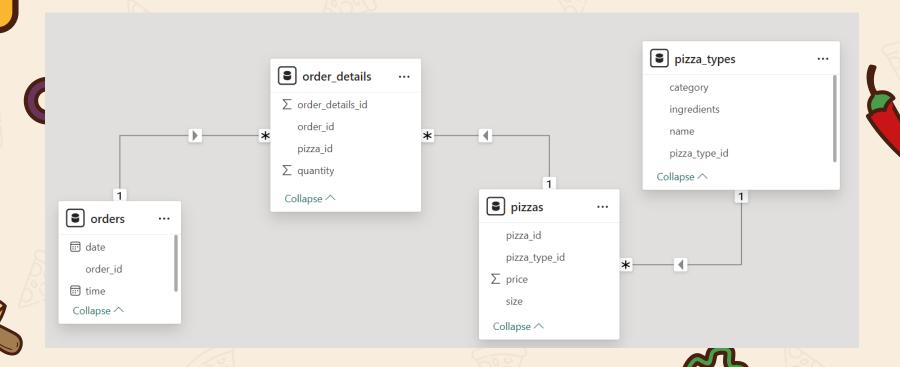
USING SQL



OBJECTIVE



DATABASE SCHEMA

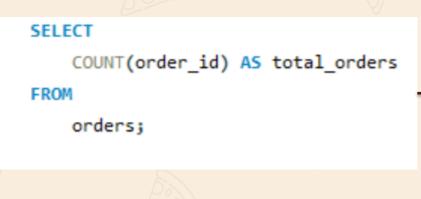


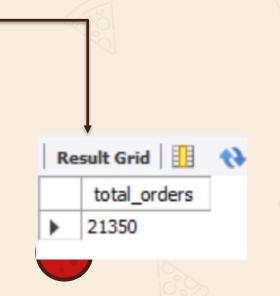




1. Retrieve the total number of orders placed



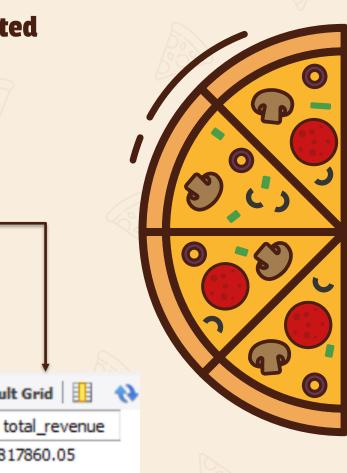






2. Calculate the total revenue generated from pizza sales

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



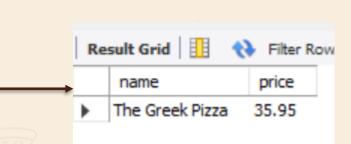
Result Grid

817860.05





```
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;
```







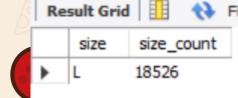


4. Identify the most common pizza size ordered



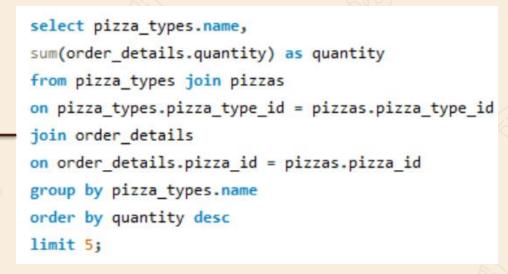
```
select pizzas.size,
count(order_details.order_details_id) as size_count
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
group by pizzas.size
order by size_count desc
limit 1;
```



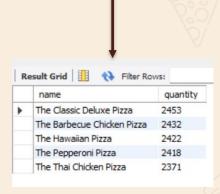




5. List the top 5 most ordered pizza types along with their quantities



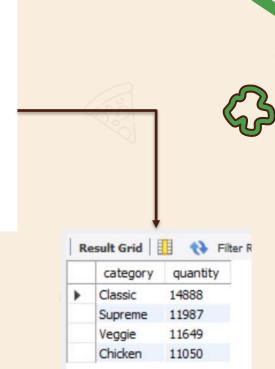




6. Join the necessary tables to find the total quantity of each pizza category ordered



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









Re	sult Grid	I 🔢 🙌 Filte
	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

7. 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);
```

8. Join relevant tables to find the categorywise distribution of pizzas

```
select category, count(name)
from pizza_types
group by category;
```

Re	esult Grid	Filter
	category	count(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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



select round(avg(quantity),0) as average_count from
(select orders.order_date,
sum(order_details.quantity) as quantity
from orders join order_details
on orders.order_id = order_details.order_id
group by orders.order_date) as order_quantity;





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

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



11. Calculate the percentage contribution of each pizza type to total revenue

```
SELECT
    pizza types.category,
    ROUND((SUM(pizzas.price * order_details.quantity) / (SELECT
                    ROUND(SUM(pizzas.price * order_details.quantity),
                FROM
                    order details
                        JOIN
                    pizzas ON order details.pizza id = pizzas.pizza id)) * 100,
            2) AS revenue
FROM
    pizzas
        JOTN
    order details ON pizzas.pizza id = order details.pizza id
        JOIN
    pizza types ON pizza types.pizza type id = pizzas.pizza type id
GROUP BY pizza types.category
ORDER BY revenue DESC;
```



Result Grid

category

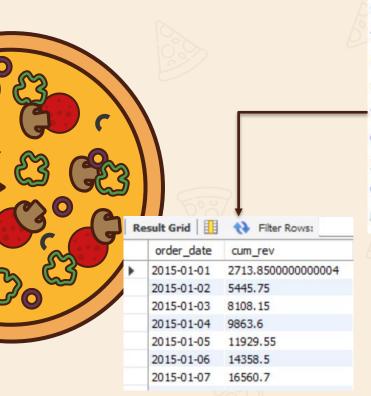
Classic

Supreme

Chicken

Veggie

12. Analyze the cumulative revenue generated over time



select order_date, sum(revenue) over(order by order_date) as cum_rev
from
(select orders.order_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.order_date) as sales





13. 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(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;
```







