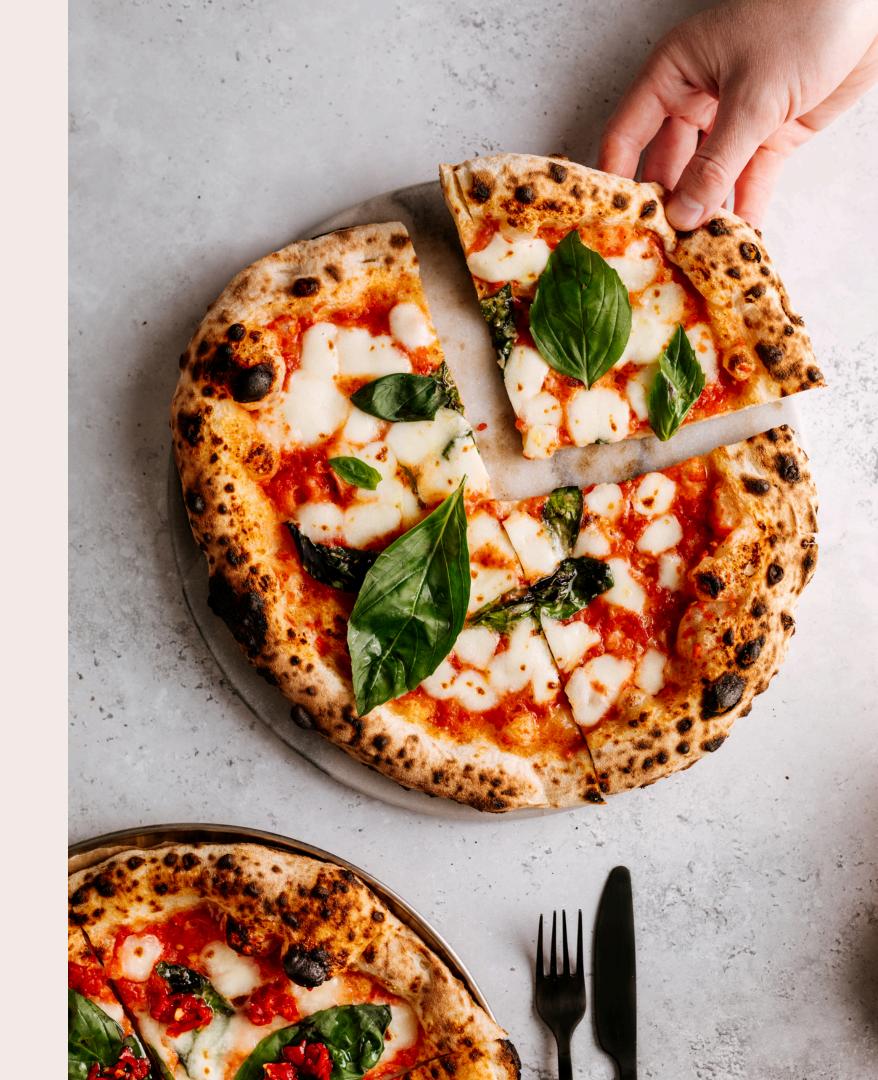
Hello!

This is Aakash Sinha, 3rd year B-Tech student from MANIT BHOPAL. In this project, I have used the SQL Queries to solve the questions regarding the Pizza sales

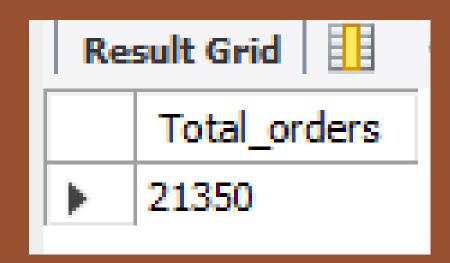


Questions?

- 1.Retrieve the total number of orders placed.
- 2.Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- 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.
- Determine the distribution of orders by hour of the day.
- 8. Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- 10.Determine the top 3 most ordered pizza types based on revenue.
- 11. Calculate the percentage contribution of each pizza type to total revenue.
- 12. Analyze the cumulative revenue generated over time.
- 13.Determine the top 3 most ordered pizza types based on revenue for each pizza category.

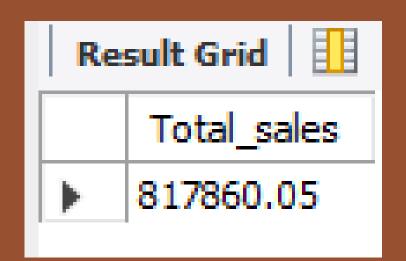
1. Retrieve the total number of orders placed.

```
    SELECT
        COUNT(order_id) AS Total_orders
        FROM
        orders;
```

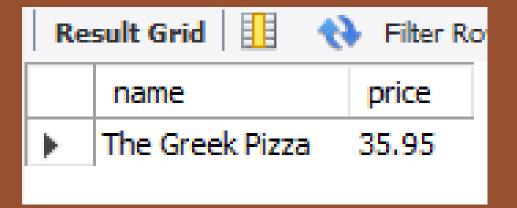


2. Calculate the total revenue generated from pizza sales.

```
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
```

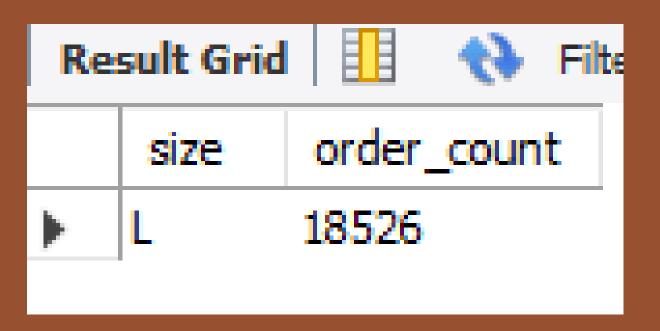


3. Identify the highest-priced pizza.



4. Identify the most common pizza size ordered.

```
SELECT
    quantity, COUNT(order_details_id)
FROM
    orders details
GROUP BY quantity;
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 size
ORDER BY order_count DESC
LIMIT 1;
```



5. 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
        JOTN
    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		
	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	

6. 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 pizzas.pizza_id=orders_details.pizza_id
group by category
order by quantity desc;
```

Re	Result Grid 🔢 🙌 Fil	
	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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);
```

Re	sult Grid	🔢 🙌 Fil
	hour	order_count
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642

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

```
category, COUNT(name)
FROM
    pizza types
GROUP BY category;
```

Re	Result Grid 🔢 🙌 Filter Roy		
	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 avg_pizza_ordered_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 order_date) AS order_quantity;
```

10. 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 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 revenue DESC
LIMIT 3;
```

Result Grid			
	name	revenue	
)	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	

11. 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 orders_details.pizza_id = pizzas.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		
	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

12. 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(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 orders.order date) as sales;
```

Re	Result Grid		
	order_date	cumulative_revenue	
•	2015-01-01	2713.8500000000004	
	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	23990.350000000002	

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

```
Select name, revenue
  from
RANK() over( partition by category order by revenue desc) as Rnk
  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 rnk<=3;
```

Re	Result Grid		
	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	32265.70000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	







