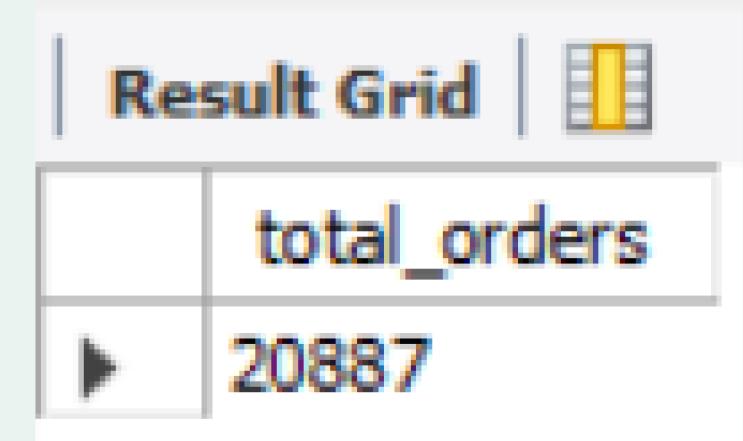
Hello my name is Aprajita.

In this project I have utilize SQL query to solve the question related to pizza sales.

Retrive the total number of orders placed.

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



Calculate the total revenue generated from pizza sales.

```
SELECT

ROUND(SUM(order_details.quantity * pizzas.price),

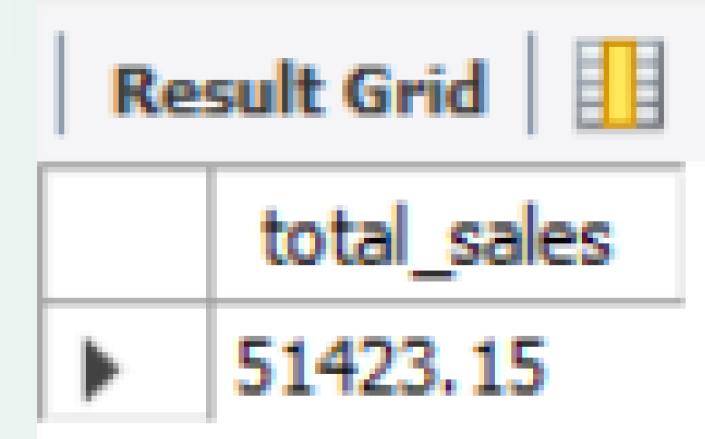
2) AS total_revenue

FROM

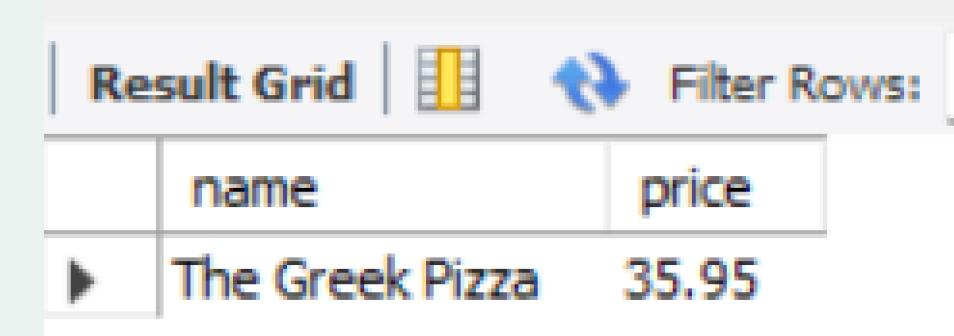
order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id
```



Identify the highest-priced pizza.



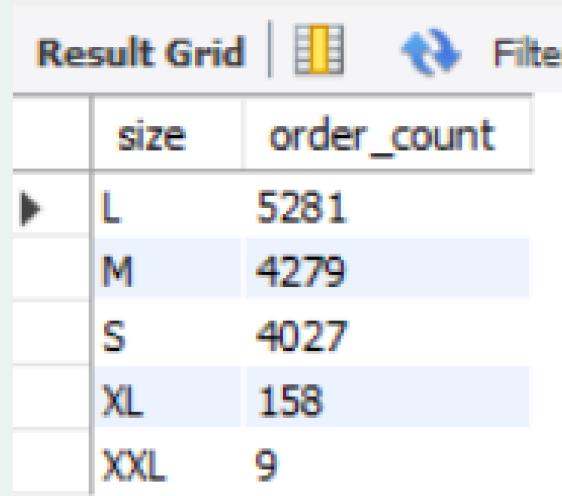
Identify the most common pizza size ordered.

```
pizzas.size,
   COUNT(order_details.order_details_id) AS order_count

FROM
   pizzas
        JOIN
   order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY pizzas.size

ORDER BY order_count DESC;
```



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

```
SELECT
   pizza_types.name, SUM(order_details.quantity) AS quantity
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.name
                                                           Result Grid Filter Rows:
ORDER BY quantity DESC
LIMIT 5;
```

	name	quantity		
•	The Barbecue Chicken Pizza	852		
	The Hawaiian Pizza	823		
	The Pepperoni Pizza	804		
	The Classic Deluxe Pizza	787		
	The Thai Chicken Pizza	786		

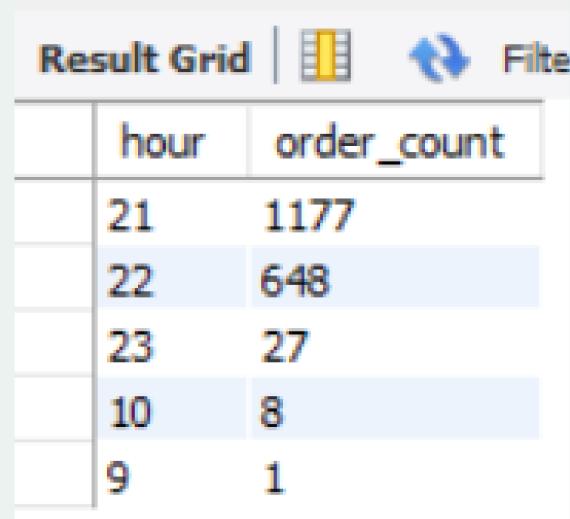
Join the necessary tables to find the total quantity of each pizza category.

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
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 quantity DESC;
```

Result Grid				
	category	quantity		
•	Classic	5215		
	Supreme	4230		
	Veggie	4203		
	Chicken	3942		

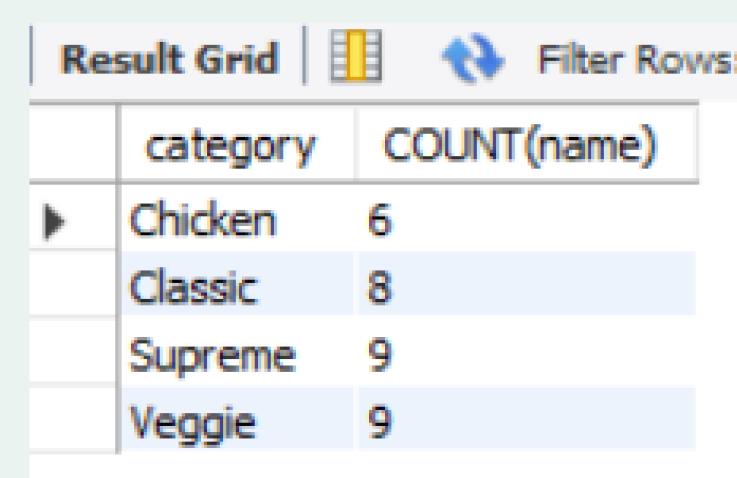
Determine the distribution of orders by hour of the day.

```
SELECT
   HOUR(time) AS hour, COUNT(order_id) AS order_count
FROM
   orders
GROUP BY HOUR(time);
```



Join relevant tables to find the category the average number of pizzas ordered per day.

```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```



Groups the orders by date and calculate the average number od pizzas ordered per day.

```
SELECT
   ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day
FROM
   (SELECT
      orders.date, SUM(order_details.quantity) AS quantity
   FROM
      orders
   JOIN order_details ON orders.order_id = order_details.order_id
   GROUP BY orders.date) AS order_quantity;
                                                  Result Grid
                                                                          Filter Rows:
                                                        avg_pizza_ordered_per_day
                                                        138
```

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

```
SELECT
   pizza_types.name,
   SUM(order_details.quantity * pizzas.price) AS revenue
FROM
   pizza_types
       JOIN
   pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
       JOIN
   order_details ON order_details.pizza_id = pizzas.pizza id
GROUP BY pizza_types.name
                                               ORDER BY revenue DESC
LIMIT 3;
                                                   name
                                                                                 revenue
                                                  The Barbecue Chicken Pizza
                                                                                19447,25
                                                  The Thai Chicken Pizza
                                                                                18063.25
```

The California Chicken Pizza

17733.5

Calculate the percentage contribution of eash pizzza type to totla revenue.

```
SELECT
   pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (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) * 100,
            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
LIMIT 4;
```

Res	sult Grid	Filte
	category	revenue
•	Classic	26.69
	Supreme	25.59
	Veggie	23.89
	Chicken	23.83

Analyze the cumulative revenue generated over time.

```
select date, sum(revenue) over(order by date) as cum_revenue
from
(select orders.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.date)as sales;
Result Grid
```

Result Grid		Name of the Filter Rows:
	date	cum_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

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

```
(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
                                                                   name
                                                                                             revenue
    order_details ON order_details.pizza_id = pizzas.pizza_id
                                                                  The Italian Supreme Pizza
                                                                                             18750
GROUP BY pizza_types.category , pizza_types.name) as a) as b
                                                                  The Sicilian Pizza
                                                                                             16706.75
where rn <=3;
                                                                  The Four Cheese Pizza
                                                                                             17878.050000000218
                                                                  The Five Cheese Pizza
                                                                                             14781.5
```

The Mexicana Pizza

14373.25

Thank you