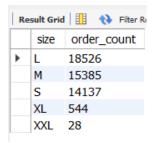
1. Retrieve the total number of order placed.

2. Calculate the total revenue generated from pizza sales.

3. Identify the highest price pizza

4. Identify the most common pizza size ordered.



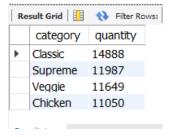
5. List the top 5 most ordered pizza types along with their quantities

```
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
ORDER BY quantity DESC
LIMIT 5;
```



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
    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;
```

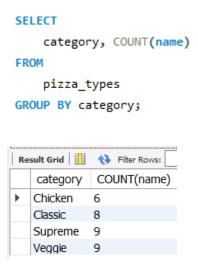


7. Determine the distribution of orders by hours of the day.

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

Result Grid		III 🙌 Filter Ro
	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
Res	ult 1 😾	

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



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

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

```
SELECT
   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.name ORDER BY revenue DESC LIMIT 3;
name
                         revenue
 The Thai Chicken Pizza
                         43434.25
  The Barbecue Chicken Pizza
                         42768
```

41409.5

The California Chicken Pizza

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

```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
            SUM(order_details.quantity * pizzas.price) AS total_sales
        FROM
           order details
               JOIN
            pizzas ON order_details.pizza_id = pizzas.pizza_id),2) * 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;
category revenue
            27
Classic
  Supreme 25
  Veggie
            24
  Chicken 24
```

12. 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(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;
```

order_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
2015-01-10	23990.3500000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
to a	

13. Determine the top 3 most ordered pizza type 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;</pre>
```

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