Pizza Sales

1. Retrieve the total number of orders placed.

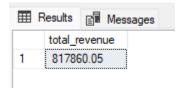
```
select COUNT(distinct order id) as total orders from orders;
```



2. Calculate the total revenue by pizza sales.

select

```
round(Sum(od.quantity * ps.price),2) as total_revenue
from order_details od
left join pizzas ps
on od.pizza_id=ps.pizza_id;
```



3. Identify the highest price pizza.

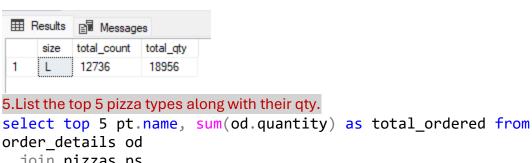
```
select top 1
name, MAX(ps.price) as highest_price
from pizza_types pt
left join pizzas ps
on pt.pizza_type_id=ps.pizza_type_id
group by name
order by max(ps.price) desc;

Results Messages
name highest_price

1 The Greek Pizza 35.95
```

4. Identify the most common pizza size ordered.

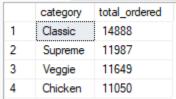
```
select top 1 size, COUNT(distinct order_id) as total_count,
sum(od.quantity) as total_qty from order_details od
left join pizzas ps
on od.pizza_id=ps.pizza_id
group by size
order by COUNT(order_id) desc;
```



== F	Messages Messages	
	name	total_ordered
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371

6. Find the total quantity of each pizza category ordered

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



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

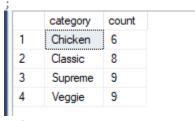
```
select DATEPART(hour,TIME) as hours, COUNT(distinct order_id) as
total_orders
from orders
group by DATEPART(hour,TIME)
```

order by COUNT(distinct order_id) desc;

	hours	total_orders
1	12	2520
2	13	2455
3	18	2399
4	17	2336
5	19	2009
6	16	1920
7	20	1642
8	14	1472
9	15	1468
10	11	1231
11	21	1198
12	22	663
13	23	28
14	10	8
15	9	1

8. Find the category wise distribution of pizza

select category , COUNT(distinct pizza_type_id) as count
from pizza_types
group by category



9. Group the orders by date and calculate the avg numb of pizza ordered per day.

```
with cte as (select o.date , sum(od.quantity)as orders from orders o join order_details od on o.order_id=od.order_id group by o.date) select AVG(orders) as Avg_for_a_day 1 138
```

10. Determine the top 3 most ordered pizza by revenue

```
select top 3 pt.name,sum(od.quantity*ps.price) as total_revenue from
order_details od
join pizzas ps
on od.pizza_id= ps.pizza_id
join pizza_types pt
on ps.pizza_type_id=pt.pizza_type_id
group by pt.name
```

order by sum(od.quantity*ps.price) desc; total_revenue The Thai Chicken Pizza 43434.25 1 The Barbecue Chicken Pizza 42768 The California Chicken Pizza 41409.5 11. Calculate the % contribution of each pizza to total revenue **SELECT** pt.category, CONCAT(CAST((SUM(od.quantity * ps.price) / (SELECT SUM(od2.quantity * ps2.price) FROM order details od2 JOIN pizzas ps2 ON od2.pizza id = ps2.pizza id)) * 100 AS DECIMAL(10,2)), '%') AS revenue_distribution_pct FROM order_details od JOIN pizzas ps ON od.pizza id = ps.pizza id JOIN pizza types pt ON ps.pizza type id = pt.pizza type id **GROUP BY** pt.category; category revenue distribution pct 1 Classic 26.91% Chicken 23.96% 3 23.68% Veggie Supreme 25.46% 12. Analyze the cumulative revenue over time **SELECT** o.date. SUM(od.quantity * ps.price) AS daily revenue, SUM(SUM(od.quantity * ps.price)) OVER (ORDER BY o.date) AS cumulative revenue **FROM** order details od join orders o on od.order_id=o.order id JOIN pizzas ps ON od.pizza id = ps.pizza id **GROUP BY** o.date ORDER BY o.date;

	date	daily_revenue	cumulative_revenue
1	2023-01-01	2713.85	2713.85
2	2023-01-02	2731.9	5445.75
3	2023-01-03	2662.4	8108.15
4	2023-01-04	1755.45	9863.6
5	2023-01-05	2065.95	11929.55
6	2023-01-06	2428.95	14358.5
7	2023-01-07	2202.2	16560.7
8	2023-01-08	2838.35	19399.05
9	2023-01-09	2127.35	21526.4
10	2023-01-10	2463.95	23990.35
11	2023-01-11	1872.3	25862.65
12	2023-01-12	1919.05	27781.7
13	2023-01-13	2049.6	29831.3
14	2023-01-14	2527.4	32358.7
15	2023-01-15	1984.8	34343.5
16	2023-01-16	2594.15	36937.65
17	2023-01-17	2064.1	39001.75
18	2023-01-18	1976.85	40978.6
19	2023-01-19	2387 15	43365 75

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

```
with cte as
( select name ,category, sum(od.quantity*ps.price) as total_revenue,
ROW_NUMBER() over(partition by category order by
sum(od.quantity*ps.price) desc) as rn
from order_details od
join pizzas ps
on od.pizza_id= ps.pizza_id
join pizza_types pt
on ps.pizza_type_id=pt.pizza_type_id
group by pt.name, category)

select category, name, round(total_revenue,2) as total_revenue, rn as
topn
from cte
where rn in (1,2,3)
```

	category	name	total_revenue	topn
1	Chicken	The Thai Chicken Pizza	43434.25	1
2	Chicken	The Barbecue Chicken Pizza	42768	2
3	Chicken	The California Chicken Pizza	41409.5	3
4	Classic	The Classic Deluxe Pizza	38180.5	1
5	Classic	The Hawaiian Pizza	32273.25	2
6	Classic	The Pepperoni Pizza	30161.75	3
7	Supreme	The Spicy Italian Pizza	34831.25	1
8	Supreme	The Italian Supreme Pizza	33476.75	2
9	Supreme	The Sicilian Pizza	30940.5	3
10	Veggie	The Four Cheese Pizza	32265.7	1
11	Veggie	The Mexicana Pizza	26780.75	2
12	Veggie	The Five Cheese Pizza	26066.5	3