

-- Calculate the total revenue generated from pizza sales.

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SELECT

 SUM(p.price * o.quantity) AS total_sale

FROM

 order_details AS o

 JOIN

 pizzas AS p ON o.pizza_id = p.pizza_id

;

	total_sale
▶	254492.30000000124

Retrieve the total number of orders placed.

```
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```

```
select count(order_id) as total_orders from orders;
```

total_orders
21350

-- IDENTIFY THE HIGHEST PRICED PIZZA

```
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```

```
select max(price) from pizzas;
```

```
-- METHOD 2
```

```
select pizza_types.name,pizzas.quantity from pizza_types as pt  
join pizzas as p  
on p.pizza_type_id = pt.pizza_type_id
```

```
order by pizza_types.name desc limit 1;
```

Result Grid

max(price)
35.95

MOST COMMON PIZZA ORDERED

```
-- MOST COMMON PIZZA ORDERED
```

```
SELECT P.SIZE , COUNT(O.ORDER_DETAILS_ID) AS ORDER_COUNT FROM PIZZAS AS P
JOIN ORDER_DETAILS| AS O
ON P.PIZZA_ID = O.PIZZA_ID
GROUP BY P.SIZE
ORDER BY ORDER_COUNT DESC;
```

	SIZE	ORDER_COUNT
	L	5789
	M	4761
	S	4403
	XL	176
	XXL	11

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

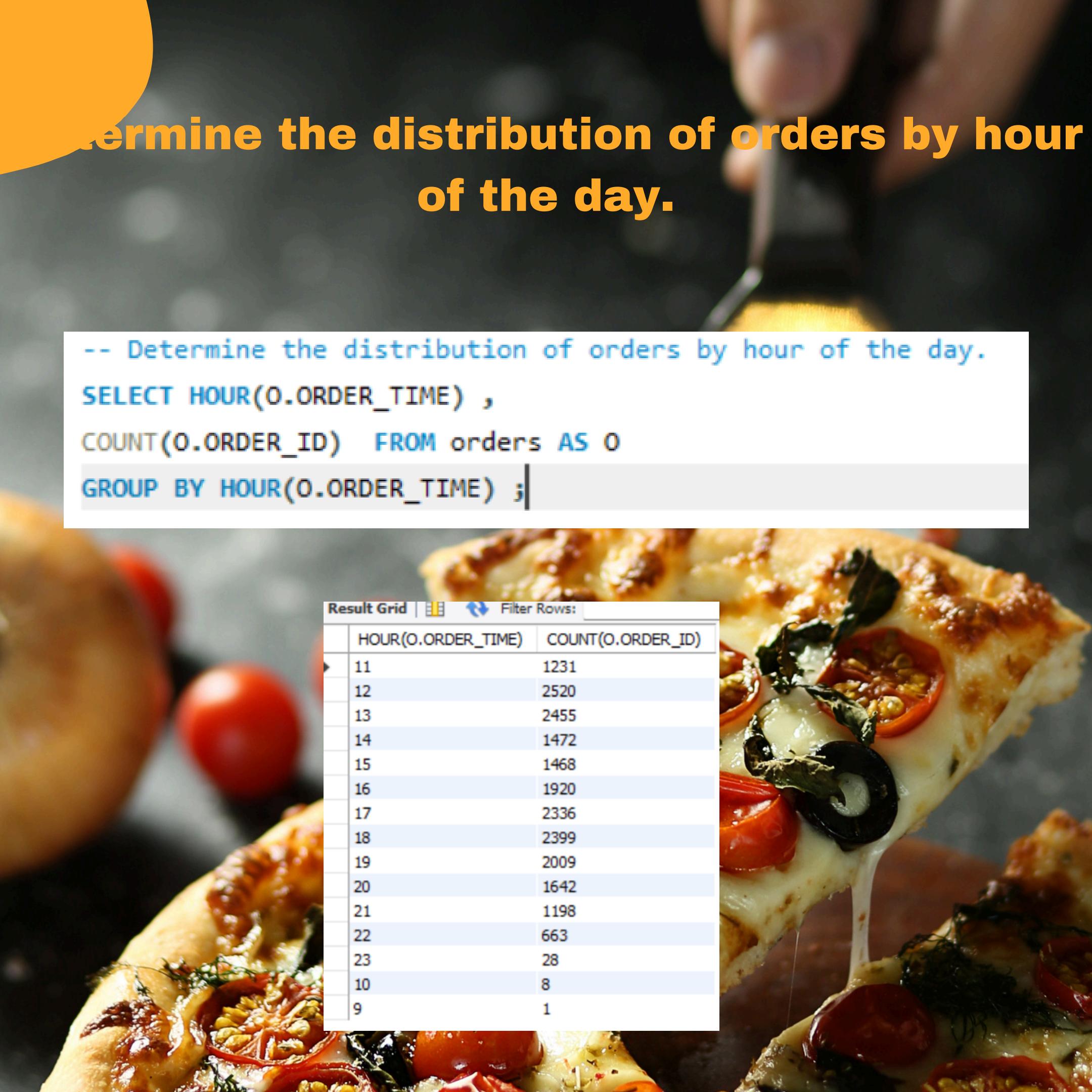
```
-- List the top 5 most ordered pizza types along with their quantities.  
SELECT PT.NAME,  
       SUM(O.QUANTITY) AS QUANTITY  
FROM pizza_types AS PT  
JOIN pizzas AS P ON PT.pizza_type_id = P.pizza_type_id  
JOIN order_details AS O ON P.pizza_id = O.pizza_id  
GROUP BY PT.NAME  
ORDER BY QUANTITY DESC LIMIT 5;
```

NAME	QUANTITY
The Barbecue Chicken Pizza	780
The Hawaiian Pizza	760
The Pepperoni Pizza	747
The Thai Chicken Pizza	734
The Classic Deluxe Pizza	727

Determine the distribution of orders by hour of the day.

```
-- Determine the distribution of orders by hour of the day.  
SELECT HOUR(O.ORDER_TIME) ,  
COUNT(O.ORDER_ID)  FROM orders AS O  
GROUP BY HOUR(O.ORDER_TIME) ;
```

	HOUR(O.ORDER_TIME)	COUNT(O.ORDER_ID)
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	



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

```
-- Group the orders by date and calculate the average number of pizzas ordered per day.  
select round(avg(quantity),0) from  
(select (o.order_date) ,  
sum(od.quantity) as quantity from orders as o  
join order_details as od  
on o.order_id = od.order_id  
group by o.order_date) as order_quantity;
```

Result Grid | Filter

	round(avg(quantity),0)
	138

Analyze the cumulative revenue generated over time.

```
SELECT  
    order_date,  
    SUM(revenue) OVER (ORDER BY order_date) AS cum_revenue  
FROM  
    (SELECT  
        o.order_date,  
        SUM(od.quantity * p.price) AS revenue  
    FROM  
        orders AS o  
    JOIN order_details AS od ON o.order_id = od.order_id  
    JOIN pizzas AS p ON p.pizza_id = od.pizza_id  
    GROUP BY  
        o.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	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343.500000000001
2015-01-16	36937.650000000001

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

```
-- Determine the top 3 most ordered pizza types based on revenue for each pizza category.  
select category, name ,revenue from  
(select category, name, revenue, rank() over( partition by category order by revenue desc) as rn from  
(select pt.category , pt.name,  
sum(od.quantity*p.price )  
as revenue from pizza_types as pt  
join pizzas as p  
on p.pizza_type_id = pt.pizza_type_id  
join order_details as od  
on p.pizza_id = od.pizza_id  
group by pt.category ,pt.name) as a) as b  
where rn<=3;
```

category	name	revenue
Chicken	The Barbecue Chicken Pizza	13777
Chicken	The Thai Chicken Pizza	13382.5
Chicken	The California Chicken Pizza	12643.75
Classic	The Classic Deluxe Pizza	11248.5
Classic	The Hawaiian Pizza	10057.75
Classic	The Pepperoni Pizza	9301.75
Supreme	The Spicy Italian Pizza	10580.25
Supreme	The Italian Supreme Pizza	10252.5
Supreme	The Sicilian Pizza	9628.25
Veggie	The Four Cheese Pizza	10122.200000000008
Veggie	The Mexicana Pizza	8521.75
Veggie	The Five Cheese Pizza	8380.5

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

```
-- Join relevant tables to find the category-wise distribution of pizzas.  
select pizza_types.category,round(sum(order_details.quantity*pizzas.price)/(select round(sum(order_details.quantity * pizzas.price),2))  
from order_details join  
pizzas on pizzas.pizza_id = order_details.pizza_id)*100,2) 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
Classic	26.55
Supreme	25.35
Veggie	24.12
Chicken	23.97

