



# Identify the most common pizza size ordered.

-- Identify the most common pizza size ordered.

select pizzas.size, count(order\_details.order\_details\_id) as Count\_of\_Orders
from pizzas join order\_details on pizzas.pizza\_id = order\_details.pizza\_id
group by pizzas.size

order by Count\_of\_Orders desc;

		size	Count_of_Orders	
	•	L	18526	
		M	15385	
		S	14137	
		XL	544	
		XXL	28	
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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 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;
```

	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

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

```
-- 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 pizzas.pizza_id = order_details.pizza_id

group by pizza_types.category

order by Quantity desc;
```

	category	Quantity
<b>•</b>	Classic	14888
	Supreme	11987
8	Veggie	11649
	Chicken	11050

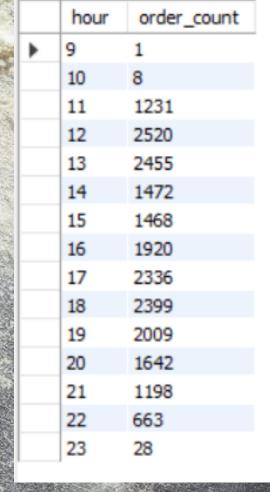
Determine the distribution of orders by hour of the day.

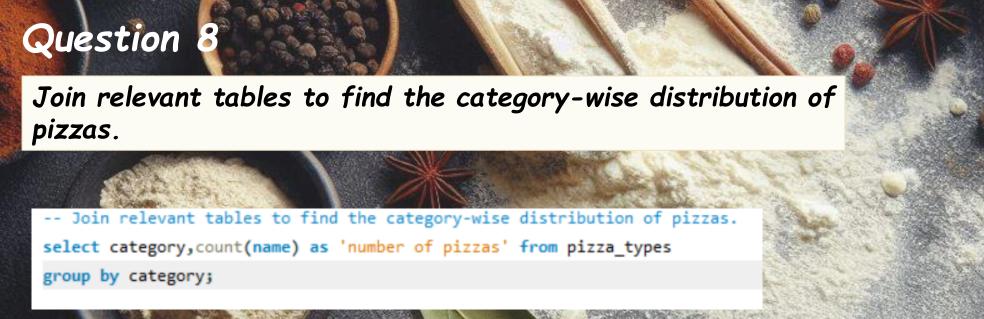
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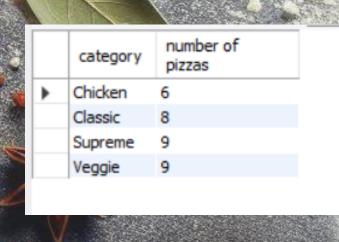
select hour(orders.time) as hour, count(orders.order\_id) as order\_count from orders

group by hour(orders.time)

order by hour;







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) as avg_pizza_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;
```

avg\_pizza\_per\_day

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

```
-- 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 pizzas.pizza_type_id = pizza_types.pizza_type_id

join order_details on pizzas.pizza_id = order_details.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
	The California Chicken Pizza	41409.5

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

```
-- 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)
         FROM pizzas
         JOIN order_details ON order_details.pizza_id = pizzas.pizza_id)
    ) * 100,2) AS revenue
FROM
    pizzas
JOIN
    pizza_types 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	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

#### Analyze the cumulative revenue generated over time.

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	34343.50000000001
2015-01-16	36937.65000000001
2015-01-17	39001.75000000001
2015-01-18	40978.600000000006
2015-01-19	43365.75000000001
2015-01-20	45763.65000000001

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 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 pizzas.pizza id = order details.pizza id
                group by pizza types.category,pizza types.name
                order by revenue) as tabale1) as table2
   where rn <= 3;
```

	name	revenue
١	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

