

# 5. list the top most 5 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     |

6. join necessary table 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;
```

|   | category | quantity |
|---|----------|----------|
| • | Classic  | 14888    |
|   | Supreme  | 11987    |
|   | Veggie   | 11649    |
|   | Chicken  | 11050    |

## 7. determine the distribution of orders by hour of the day.

### **SELECT**

HOUR(order\_time) AS hour, COUNT(order\_id) AS order\_count

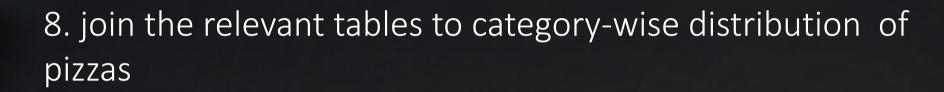
**FROM** 

orders\_pizza

GROUP BY HOUR(order\_time);



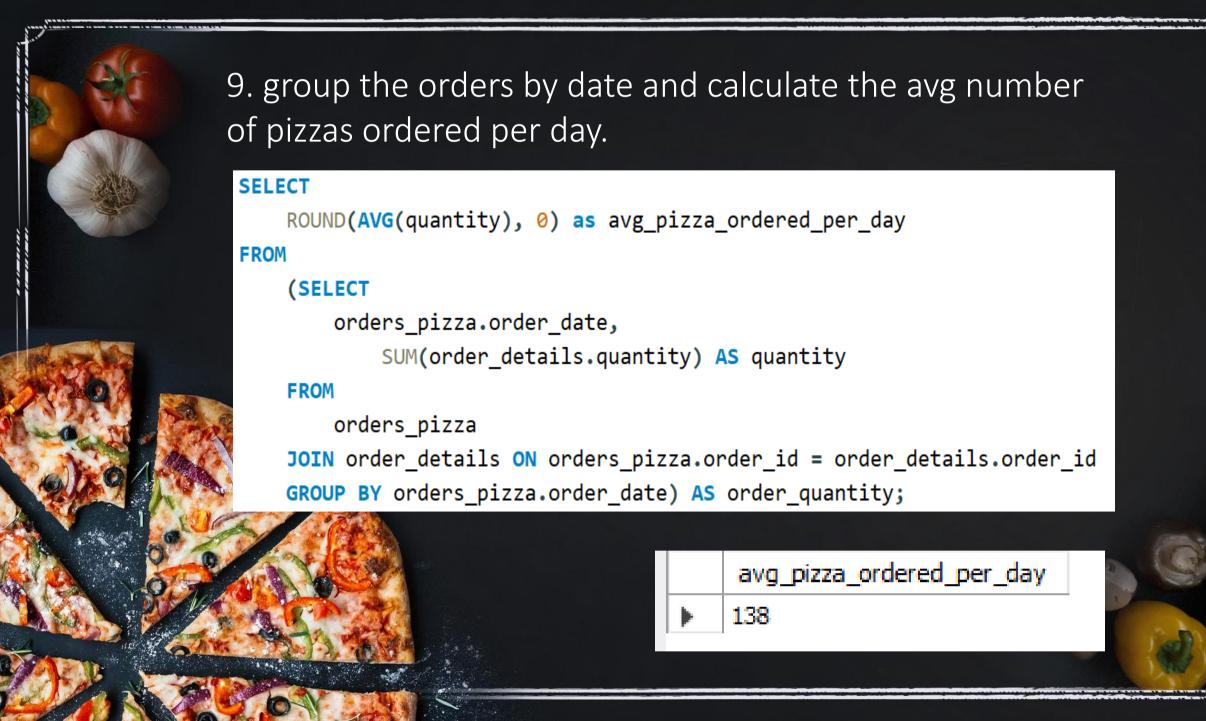
|             | hour | order_count |
|-------------|------|-------------|
| <b>&gt;</b> | 11   | 1231        |
|             | 12   | 2520        |
|             | 13   | 2455        |
|             | 14   | 1472        |
|             | 15   | 1468        |
|             | 16   | 1920        |
|             | 17   | 2336        |
|             | 18   | 2399        |
|             | 19   | 2009        |
|             | 20   | 1642        |
|             | 21   | 1198        |
|             | 22   | 663         |
|             | 23   | 28          |
|             | 10   | 8           |
|             | 9    | 1           |
|             |      |             |



select category, count(name) from pizza\_types
group by category;



|   | category | count(name) |
|---|----------|-------------|
| • | Chicken  | 6           |
|   | Classic  | 8           |
|   | Supreme  | 9           |
|   | Veggie   | 9           |
|   |          |             |



## 10. top 3 most ordered pizzas 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 Thai Chicken Pizza       | 43434.25 |
|   | The Barbecue Chicken Pizza   | 42768    |
|   | The California Chicken Pizza | 41409.5  |

# 11. calculate the perecentage contribution of each pizza type to total revenue

#### **FROM**

pizza\_types

JOIN



#### JOIN

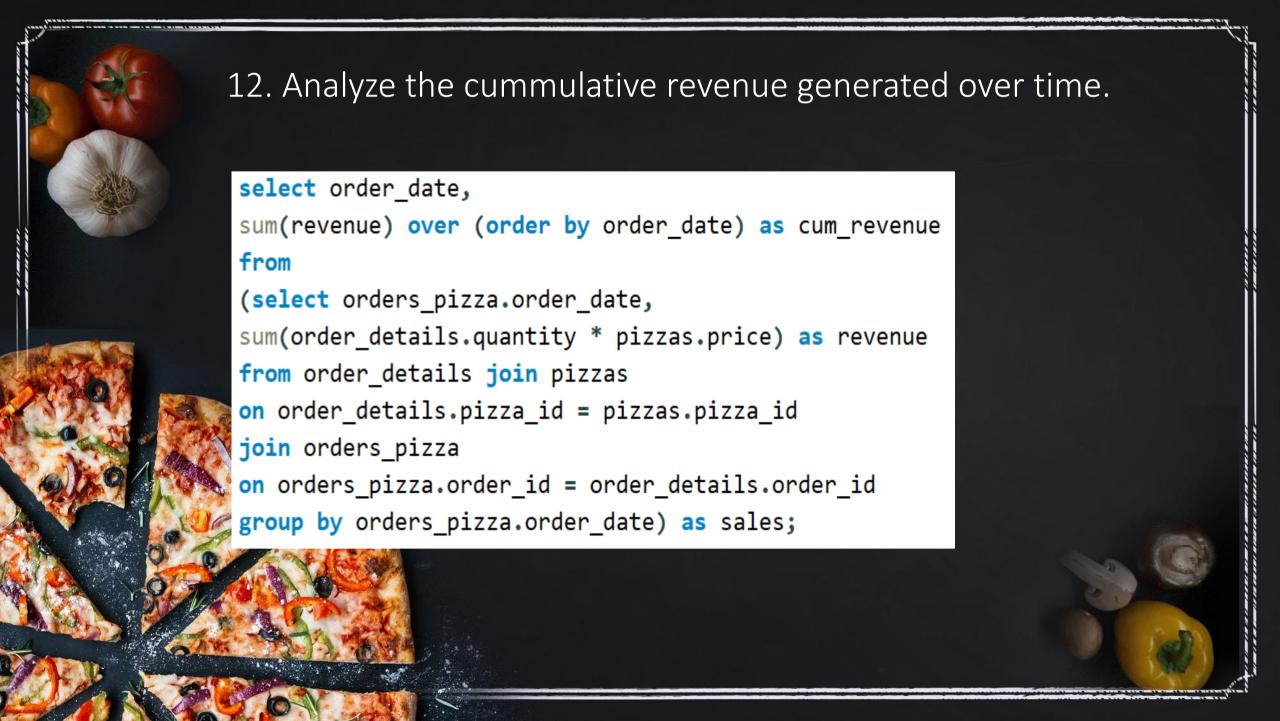
pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

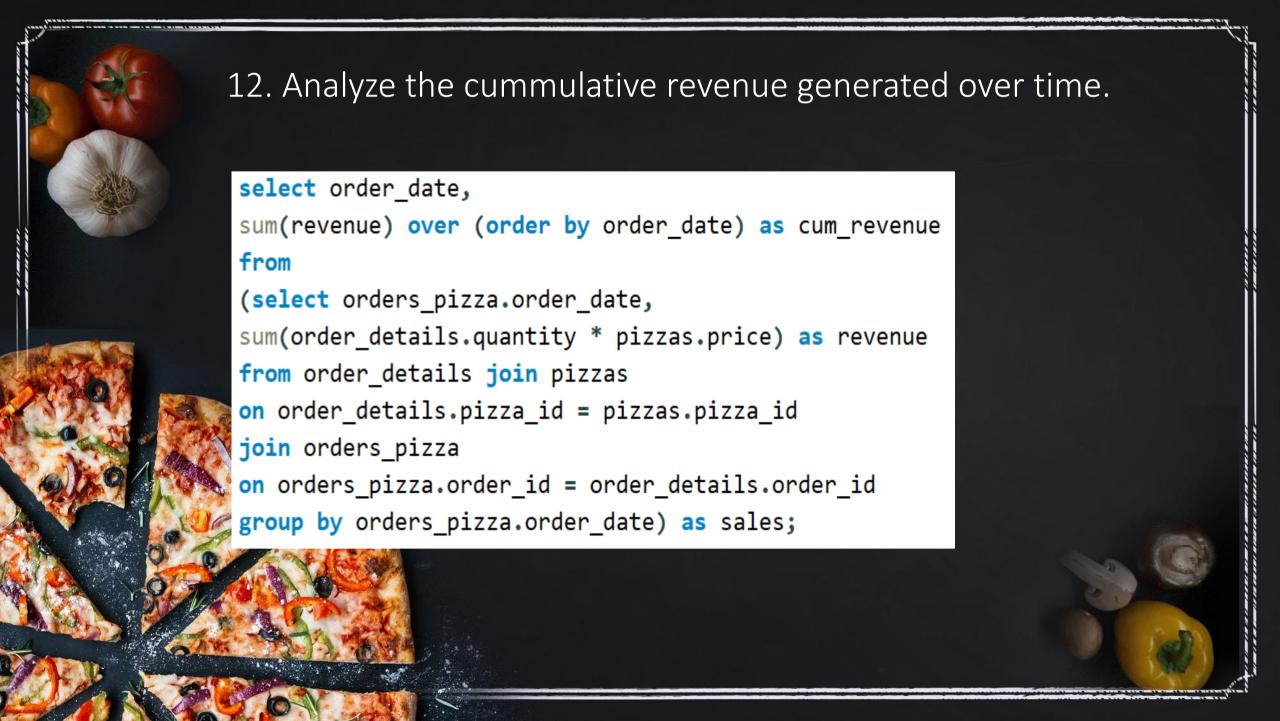
order\_details ON order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizza\_types.category

ORDER BY revenue DESC;







## 12. OUTPUT

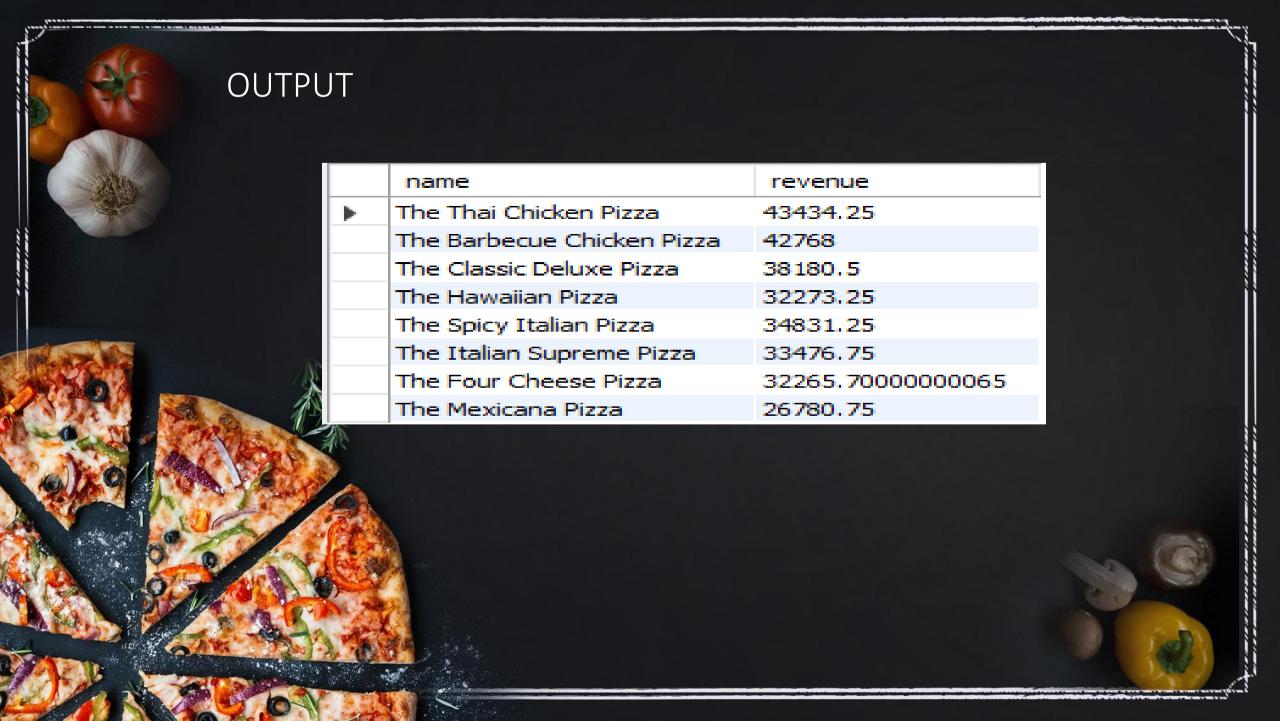
|   | order_date | cum_revenue        |
|---|------------|--------------------|
| • | 2015-01-01 | 2713.8500000000004 |
|   | 2015-01-02 | 5445.75            |
|   | 2015-01-03 | 8108.15            |
|   | 2015-01-04 | 9863.6             |
|   | 2015-01-05 | 11929.55           |
|   | 2015-01-06 | 14358.5            |
|   | 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 | 34343.50000000001  |
|   | 2015-01-16 | 36937.65000000001  |
|   | 2015-01-17 | 39001.75000000001  |
|   | 2015-01-18 | 40978.600000000006 |
|   | 2015-01-19 | 43365.75000000001  |

| order_date | cum_revenue         |
|------------|---------------------|
| 2015-01-20 | 45763.65000000001   |
| 2015-01-21 | 47804.20000000001   |
| 2015-01-22 | 50300.90000000001   |
| 2015-01-23 | 52724.6000000000006 |
| 2015-01-24 | 55013.8500000000006 |
| 2015-01-25 | 56631.40000000001   |
| 2015-01-26 | 58515.80000000001   |
| 2015-01-27 | 61043.85000000001   |
| 2015-01-28 | 63059.85000000001   |
| 2015-01-29 | 65105.150000000016  |
| 2015-01-30 | 67375.45000000001   |
| 2015-01-31 | 69793.30000000002   |
| 2015-02-01 | 72982.50000000001   |
| 2015-02-02 | 75311.100000000002  |
| 2015-02-03 | 77925.90000000002   |
| 2015-02-04 | 80159.80000000002   |
| 2015-02-05 | 82375.600000000002  |
| 2015-02-06 | 84885.550000000002  |
| 2015-02-07 | 87123.20000000001   |

| order_date | cum_revenue        |
|------------|--------------------|
| 2015-02-27 | 132413.30000000002 |
| 2015-02-28 | 134952.90000000002 |
| 2015-03-01 | 136551.45          |
| 2015-03-02 | 138930.5           |
| 2015-03-03 | 141218.4           |
| 2015-03-04 | 143662.69999999998 |
| 2015-03-05 | 146013.34999999998 |
| 2015-03-06 | 148527.3           |
| 2015-03-07 | 150927.75          |
| 2015-03-08 | 153115.9           |
| 2015-03-09 | 155450.44999999998 |
| 2015-03-10 | 157839.15          |
| 2015-03-11 | 160046.85          |
| 2015-03-12 | 162041.75          |
| 2015-03-13 | 164828.4           |
| 2015-03-14 | 166867.85          |
| 2015-03-15 | 168936.45          |
| 2015-03-16 | 171231.5           |
| 2015-03-17 | 174196.8           |
|            |                    |

# 13. determine the top 3 most ordered pizza types based on revenue for each pizza

```
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;
```







# YOU