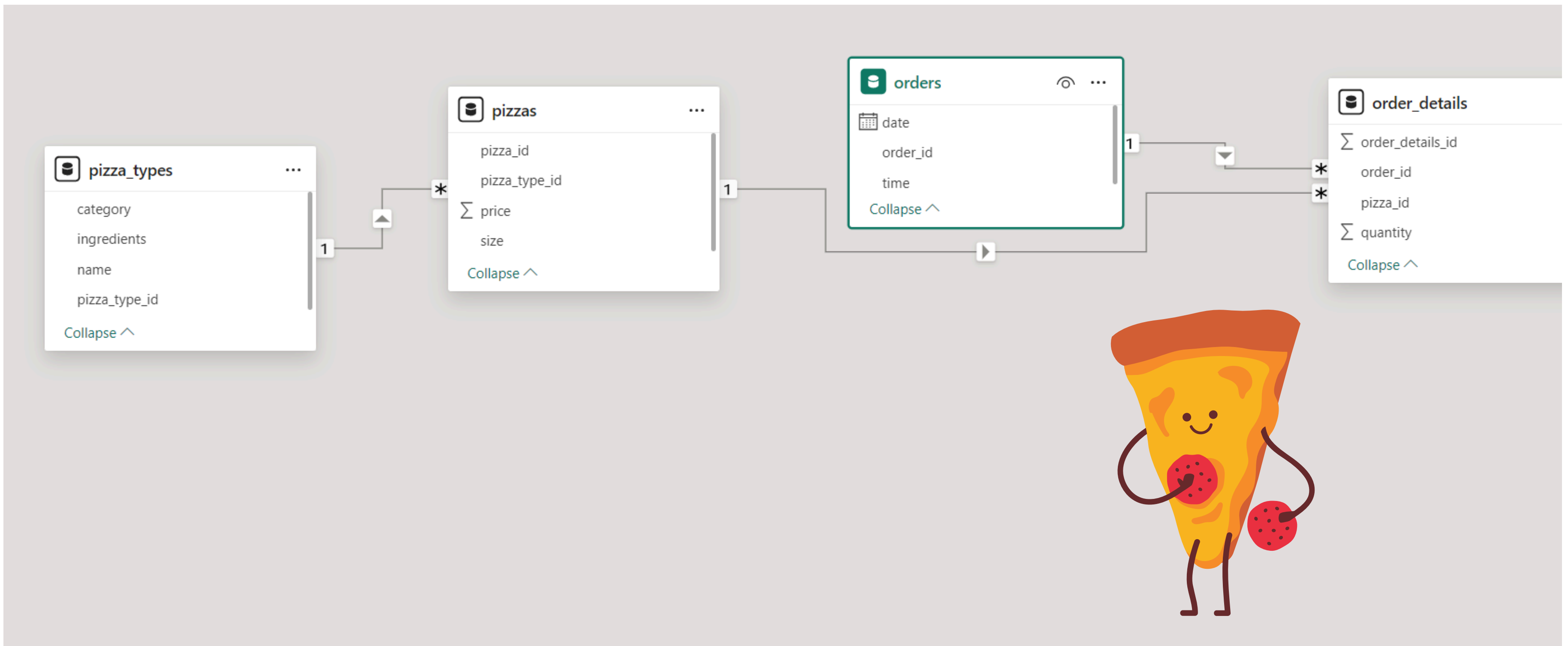


PIZZA SALES

ANALYSIS USING SQL

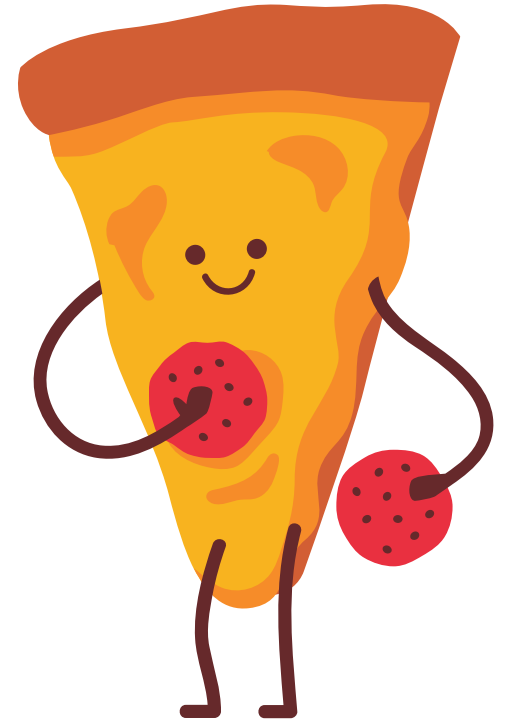


Understand Schema



Retrieve the total number of orders placed.

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```



| Result Grid | |
|-------------|--------------|
| | total_orders |
| ▶ | 21350 |

Calculate the total revenue generated from pizza sales.

SELECT

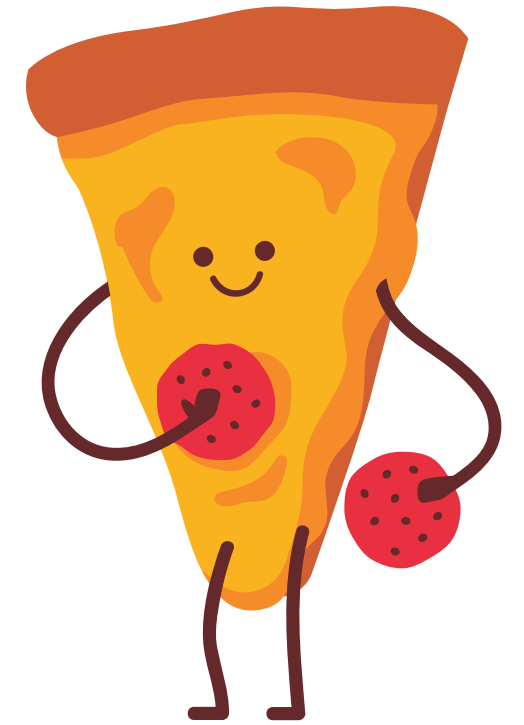
```
round(SUM((quantity * price)),2) AS total_revenue
```

FROM

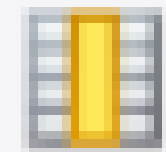
```
order_details
```

```
INNER JOIN
```

```
pizzas ON order_details.pizza_id = pizzas.pizza_id;
```



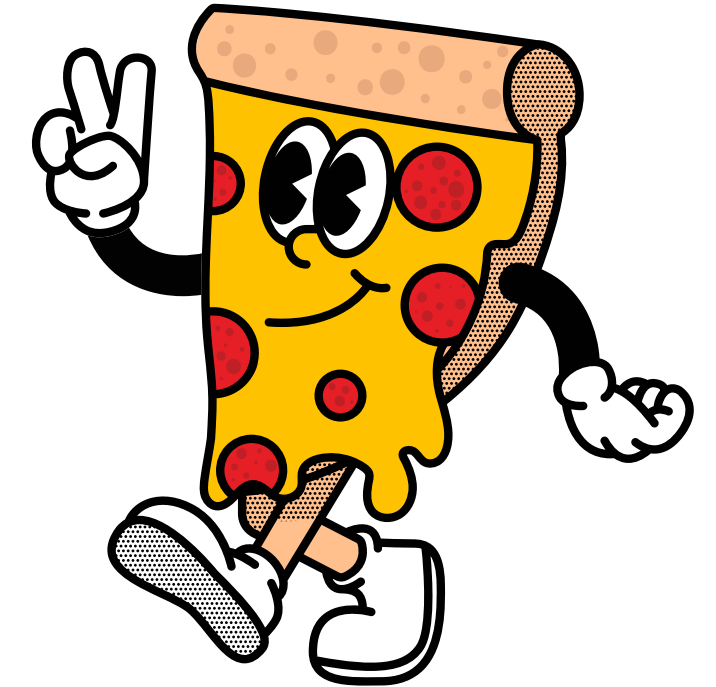
Result Grid



| | total_revenue |
|---|---------------|
| ▶ | 817860.05 |

Identify the highest-priced pizza.

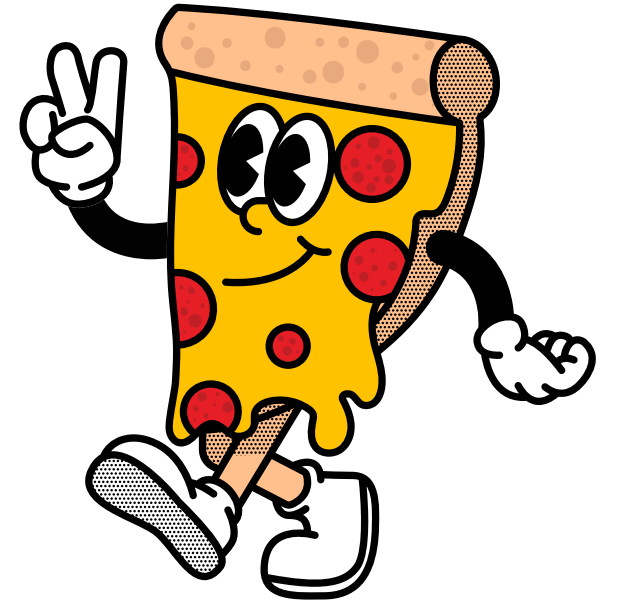
```
SELECT
    name
FROM
    pizzas
    INNER JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
WHERE
    price = (SELECT
        MAX(price)
        FROM
            pizzas);
```



| Result Grid | | | |
|-------------|-----------------|--|--|
| | name | | |
| ▶ | The Greek Pizza | | |

Identify the most common pizza size ordered.

```
SELECT
    size, COUNT(size) AS sizes_count
FROM
    order_details
    INNER JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
GROUP BY size
ORDER BY sizes_count DESC
LIMIT 1;
```

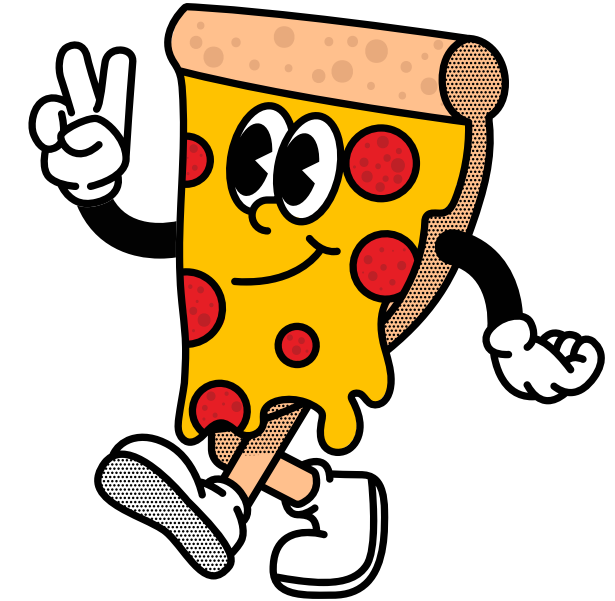


| Result Grid | | | Filter Row |
|-------------|------|-------------|------------|
| | size | sizes_count | |
| ▶ | L | 18526 | |

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

```
SELECT name,count(order_details_id) as total_orders ,sum(quantity) as total_quantity

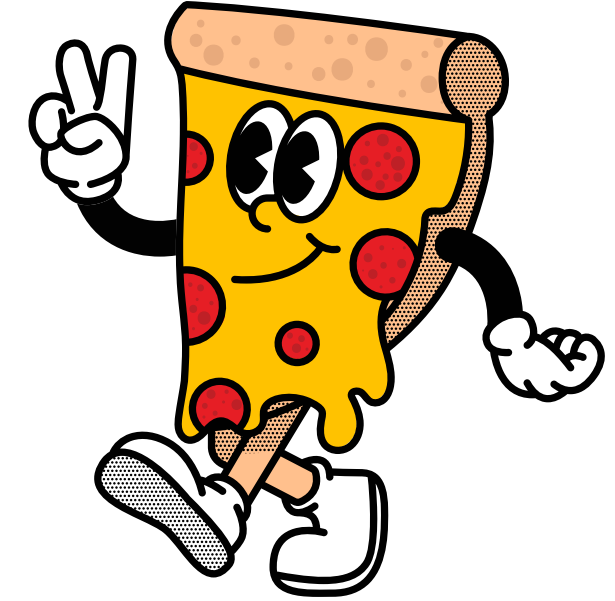
FROM
    order_details
    INNER JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
    INNER JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
group by name order by total_orders desc limit 5;
```



| | name | total_orders | total_quantity |
|---|----------------------------|--------------|----------------|
| ► | The Classic Deluxe Pizza | 2416 | 2453 |
| | The Barbecue Chicken Pizza | 2372 | 2432 |
| | The Hawaiian Pizza | 2370 | 2422 |
| | The Pepperoni Pizza | 2369 | 2418 |
| | The Thai Chicken Pizza | 2315 | 2371 |

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

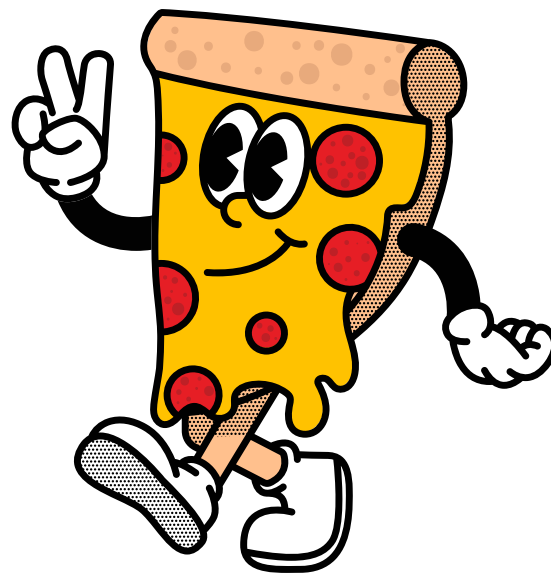
```
SELECT
    category, SUM(quantity) AS total_quantity
FROM
    order_details
    INNER JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
    INNER JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY category;
```



| | category | total_quantity |
|---|----------|----------------|
| ▶ | Chicken | 11050 |
| | Classic | 14888 |
| | Supreme | 11987 |
| | Veggie | 11649 |

Determine the distribution of orders by hour of the day.

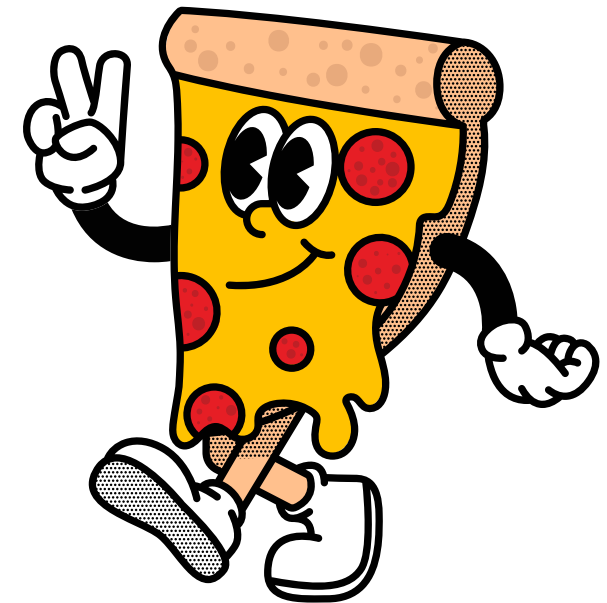
```
SELECT
    ordered_hour, COUNT(ordered_hour) AS total_orders
FROM
    (SELECT
        HOUR(time) AS ordered_hour
    FROM
        orders) AS hour_table
GROUP BY ordered_hour
ORDER BY total_orders DESC;
```



| | ordered_hour | total_orders |
|---|--------------|--------------|
| ▶ | 12 | 2520 |
| | 13 | 2455 |
| | 18 | 2399 |
| | 17 | 2336 |
| | 19 | 2009 |
| | 16 | 1920 |
| | 20 | 1642 |
| | 14 | 1472 |
| | 15 | 1468 |
| | 11 | 1231 |
| | 21 | 1198 |
| | 22 | 663 |
| | 23 | 28 |
| | 10 | 8 |
| | 9 | 1 |

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

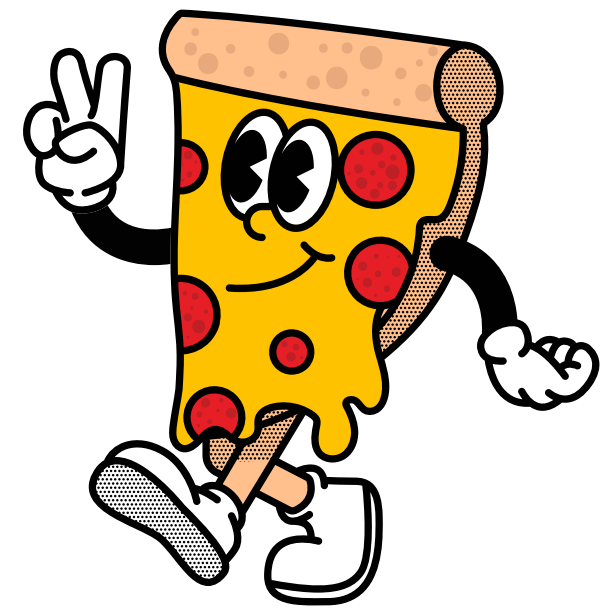
```
SELECT
    category, COUNT(name) AS total_sub_categories
FROM
    pizza_types
GROUP BY category;
```



| | category | total_sub_categories |
|---|----------|----------------------|
| ▶ | Chicken | 6 |
| | Classic | 8 |
| | Supreme | 9 |
| | Veggie | 9 |

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

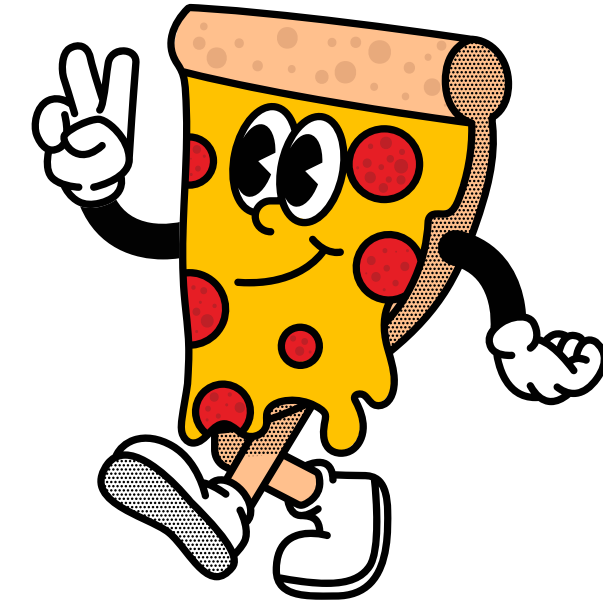
```
SELECT
    ROUND(AVG(total_pizzas_ordered), 0) AS average_pizzas_ordered_per_day
FROM
    (SELECT
        date, SUM(quantity) AS total_pizzas_ordered
    FROM
        orders
    INNER JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY date) AS orders_quantity;
```



| | average_pizzas_ordered_per_day |
|---|--------------------------------|
| ▶ | 138 |

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

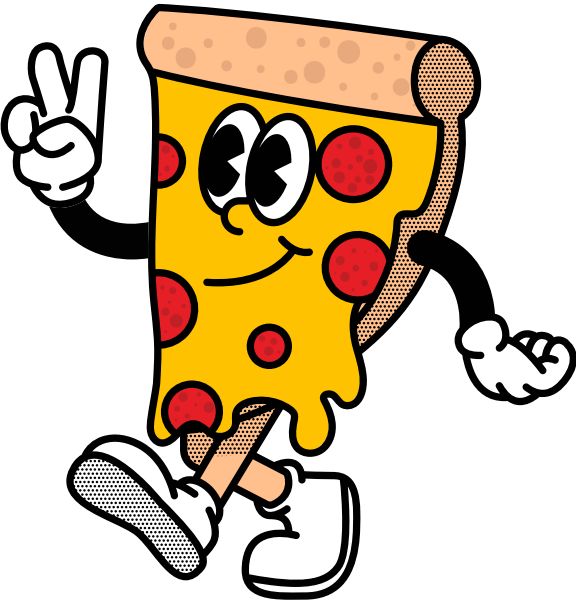
```
SELECT
    name, SUM(quantity * price) AS revenue
FROM
    order_details
    INNER JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
    INNER JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY name
ORDER BY revenue DESC
LIMIT 3;
```



| | 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.

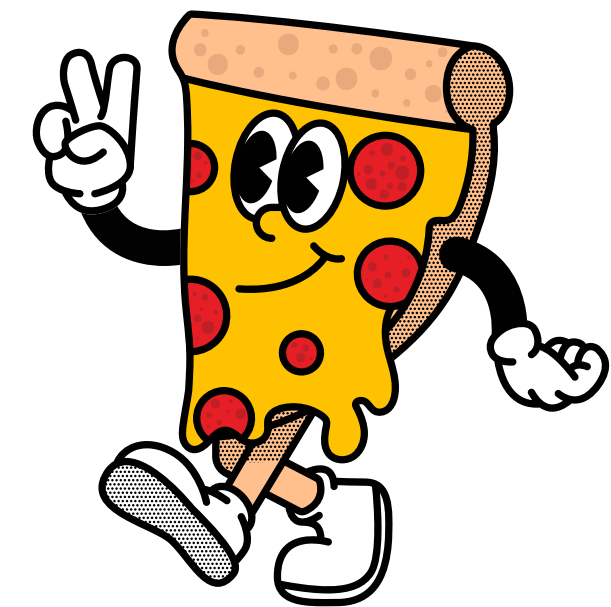
```
SELECT
  category,
  (SUM(quantity * price) / (SELECT
    SUM((quantity * price))
  FROM
    order_details
    INNER JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id)) * 100 AS revenue_contribution
FROM
  order_details
  INNER JOIN
  pizzas ON order_details.pizza_id = pizzas.pizza_id
  INNER JOIN
  pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY category
ORDER BY revenue_contribution DESC;
```



| | category | revenue_contribution |
|---|----------|----------------------|
| ▶ | Classic | 26.90596025566937 |
| | Supreme | 25.456311260098513 |
| | Chicken | 23.955137556846992 |
| | Veggie | 23.682590927383647 |

Analyze the cumulative revenue generated over time.

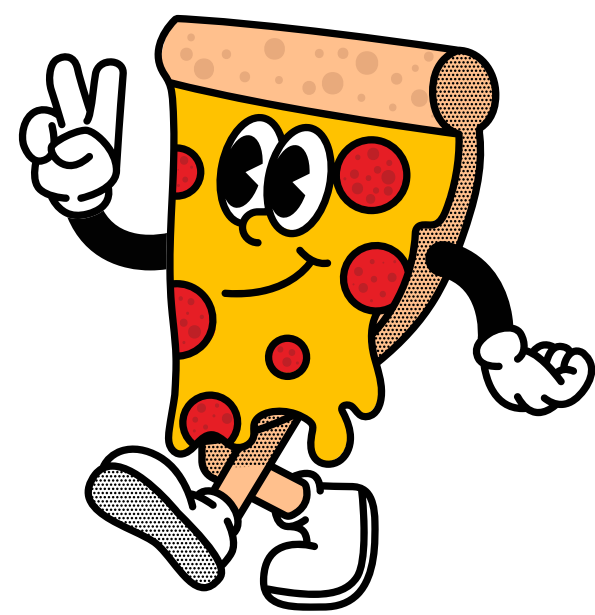
```
select date ,sum(revenue) over(order by date) as cumulative_revenue from(SELECT
    date, round(SUM(quantity * price),1) AS revenue
FROM
    orders
    INNER JOIN
order_details ON orders.order_id = order_details.order_id
    INNER JOIN
pizzas ON order_details.pizza_id = pizzas.pizza_id
GROUP BY date) as revenue_table;
```



| | date | cumulative_revenue |
|---|------------|----------------------|
| ▶ | 2015-01-01 | 2713.9 |
| | 2015-01-02 | 5445.8 |
| | 2015-01-03 | 8108.20000000000001 |
| | 2015-01-04 | 9863.7 |
| | 2015-01-05 | 11929.7 |
| | 2015-01-06 | 14358.7 |
| | 2015-01-07 | 16560.9 |
| | 2015-01-08 | 19399.2 |
| | 2015-01-09 | 21526.60000000000002 |

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 ranking from (SELECT
category,name,sum(quantity*price) as revenue
FROM
order_details
INNER JOIN
pizzas ON order_details.pizza_id = pizzas.pizza_id
INNER JOIN
pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
group by category,name) as a)as b where ranking<=3;
```



| | category | name | revenue |
|---|----------|------------------------------|--------------------|
| ▶ | Chicken | The Thai Chicken Pizza | 43434.25 |
| | Chicken | The Barbecue Chicken Pizza | 42768 |
| | Chicken | The California Chicken Pizza | 41409.5 |
| | Classic | The Classic Deluxe Pizza | 38180.5 |
| | Classic | The Hawaiian Pizza | 32273.25 |
| | Classic | The Pepperoni Pizza | 30161.75 |
| | Supreme | The Spicy Italian Pizza | 34831.25 |
| | Supreme | The Italian Supreme Pizza | 33476.75 |
| | Supreme | The Sicilian Pizza | 30940.5 |
| | Veggie | The Four Cheese Pizza | 32265.700000000554 |
| | Veggie | The Mexicana Pizza | 26780.75 |
| | Veggie | The Five Cheese Pizza | 26066.5 |

PIZZA PARTY!

