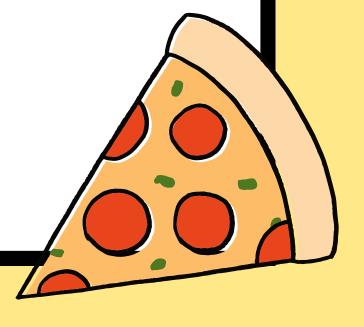


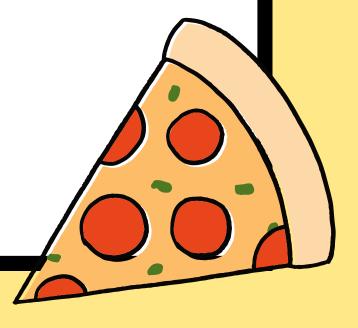
Retrieve the total number of orders placed

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



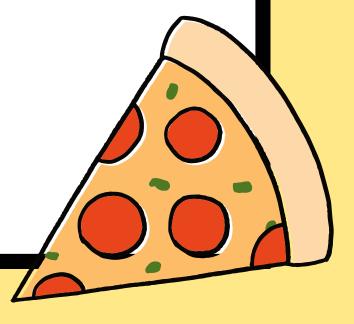
Calculate the total revenue generated from pizza sales.

```
SELECT
    ROUND(SUM((od.quantity * p.price)), 2) AS total_revenue
FROM
    order_details AS od
        JOIN
    pizzas AS p ON od.pizza_id = p.pizza_id;
```



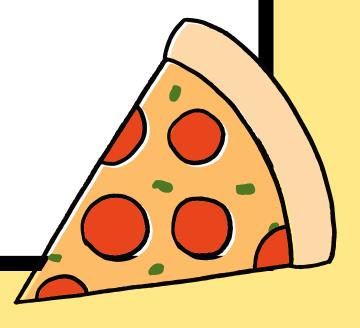
Identify the highest-priced pizza.

```
SELECT
    pt.name, p.price
FROM
    pizza_types AS pt
        JOIN
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
ORDER BY p.price DESC
LIMIT 1;
```



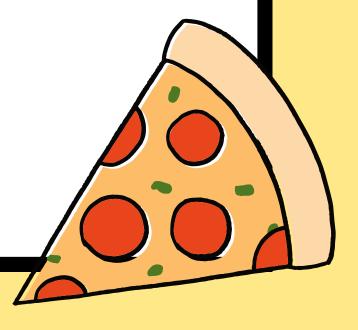
Identify the most common pizza size ordered.

```
SELECT
   p.size, COUNT(od.order_detail_id) AS order_count
FROM
   order_details AS od
        JOIN
   pizzas AS p ON od.pizza_id = p.pizza_id
GROUP BY p.size ORDER BY order_count DESC LIMIT 1;
```



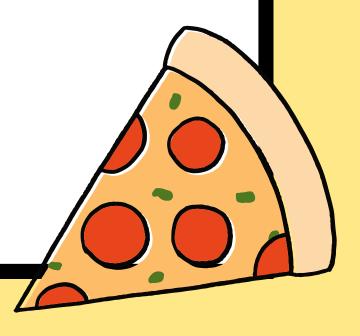
List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    pt.name, SUM(od.quantity) AS total_order
FROM
    pizza_types AS pt
        JOIN
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details AS od ON p.pizza_id = od.pizza_id
GROUP BY pt.name
ORDER BY total_order DESC
LIMIT 5;
```



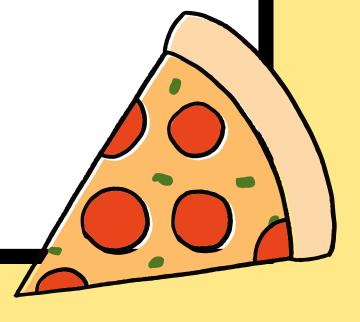
Join the necessary tables to find the total quantity of each pizza category ordered

```
SELECT
   pt.category, SUM(od.quantity)
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;
```



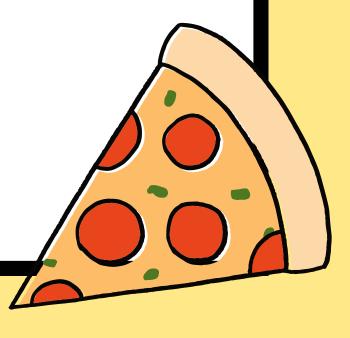
Determine the distribution of orders by hour of the day.

```
SELECT
   HOUR(order_time), COUNT(order_id)
FROM
   orders
GROUP BY HOUR(order_time);
```

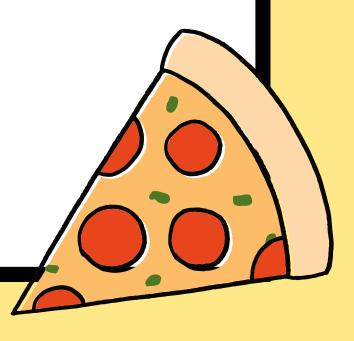


Join relevant tables to find the category-wise distribution of pizzas

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



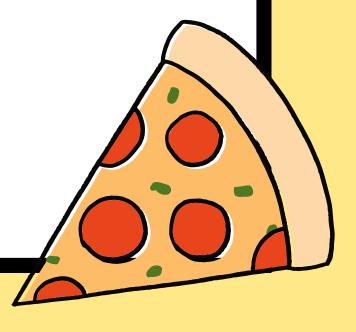
Group the orders by date and calculate the average number of pizzas ordered per day.



Determine the top 3 most ordered pizza types based

on revenue.

```
SELECT
    pt.name, ROUND(SUM(od.quantity * p.price), 2) AS revenue
FROM
    pizza_types AS pt
        JOIN
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details AS od ON p.pizza_id = od.pizza_id
GROUP BY pt.name
ORDER BY revenue DESC
LIMIT 3;
```



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

```
SELECT

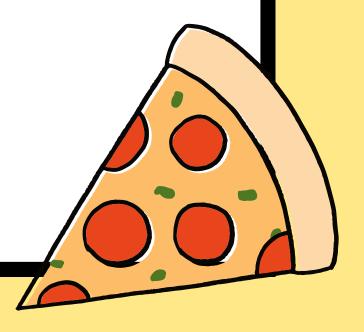
pt.category,ROUND((SUM(od.quantity * p.price) / (SELECT
SUM(od.quantity * p.price) AS total_sales
FROM order_details AS od
JOIN pizzas AS p
ON p.pizza_id = od.pizza_id) ) * 100,0) AS revenue
FROM

pizza_types AS pt
JOIN

pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
JOIN

order_details AS od ON p.pizza_id = od.pizza_id

GROUP BY pt.category ORDER BY revenue DESC
;
```



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, ROUND(SUM(od.quantity * p.price),0) AS revenue
FROM orders AS o

JOIN order_details AS od
ON o.order_id = od.order_id

JOIN pizzas AS p
ON od.pizza_id = p.pizza_id

GROUP BY o.order_date) AS sales ;
```



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 pt.category, pt.name, ROUND(SUM(od.quantity * p.price), 0) AS revenue

FROM pizza_types AS pt

JOIN pizzas AS p ON pt.pizza_type_id = p.pizza_type_id

JOIN order_details AS od ON od.pizza_id = p.pizza_id

GROUP BY pt.category, pt.name

) AS sales
) AS b

WHERE RN <= 3;
```

