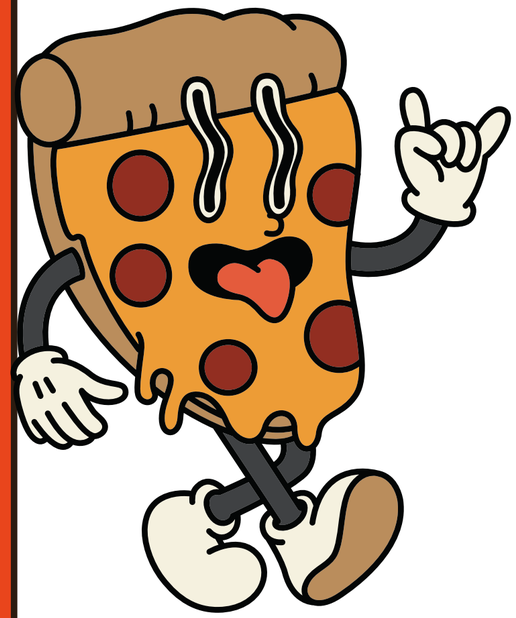
HELLO, MY NAME IS MUHAMMAD RAMEEZ

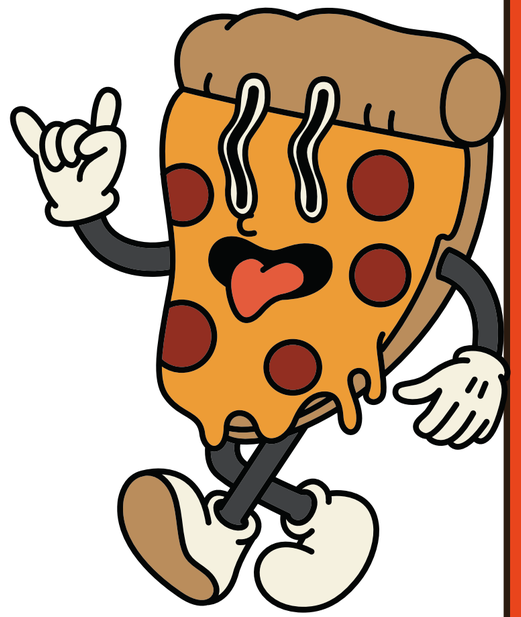
Calculate the total revenue generated from pizza sales.



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

Result Grid

	total_sales
▶	3882.5

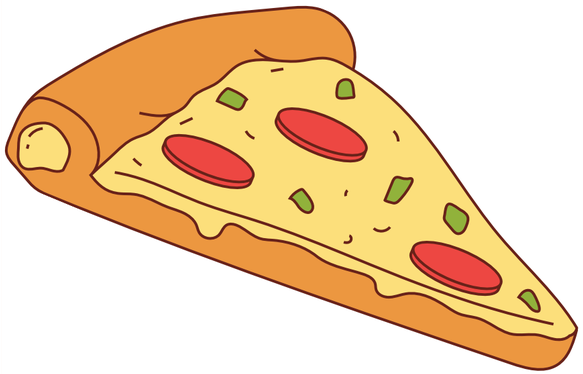


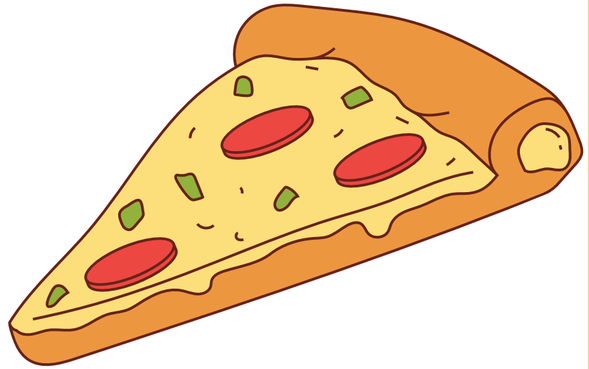
Retrieve the total number of orders placed.

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

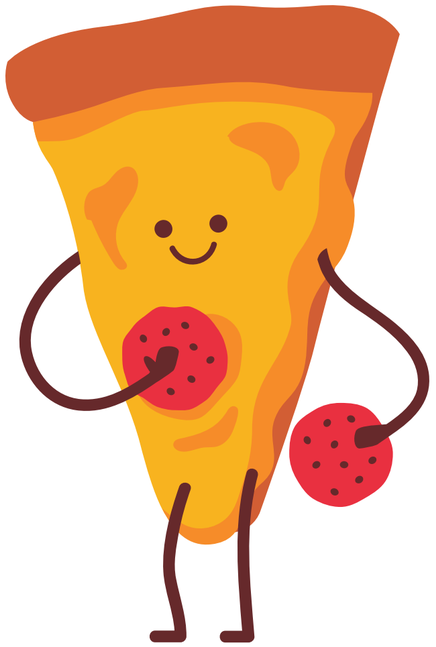
Result Grid

total_orders
233





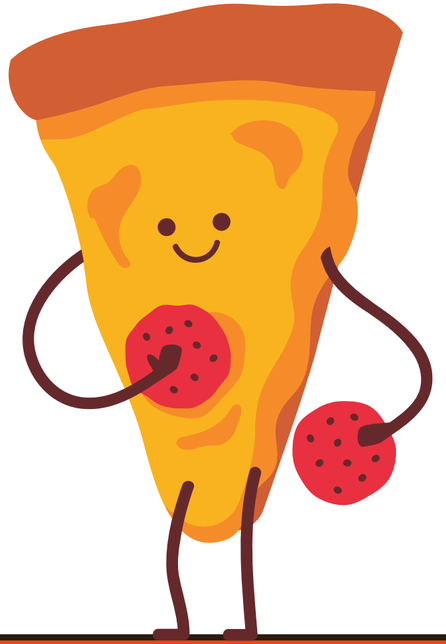
Identify the highest-priced pizza.



```sql
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
select quantity, count(order_details_id)
 from order_details group by quantity;
```

Result Grid | Filter Rows:

	name	price
▶	pep_msh_pep	20.75



Identify the most common pizza size ordered.

```sql
SELECT
    pizzas.size, COUNT(order_details.order_details_id) as order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC limit 3;
```

Result Grid | Filter Rows:

size	order_count
L	78
M	77
S	74

List the top 3 most ordered pizza types along with their quantities.

```sql
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 3;
```

Result Grid | Filter Rows:

name	quantity
the_greek	82
pep_msh_pep	58
pepperoni	53

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

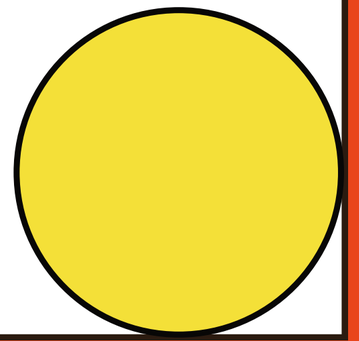
```sql
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity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

Result Grid | Filter Rows:

category	quantity
M	72
S	62
L	30
XL	16
XXL	13

Determine the distribution of orders by hour of the day.

```sql
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

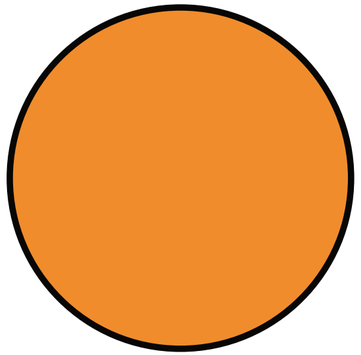


Join relevant tables to find the category-wise distribution of pizzas.

```
select category, count(name) from pizza_types
group by category
```

Result Grid | Filter Row

category	count(name)
S	17
M	16
L	13
XL	2
XXL	2
Supreme	10



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

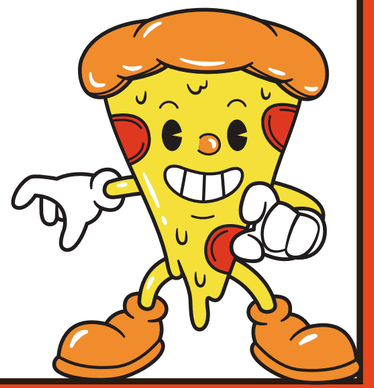
```
select pizza_types.name,
sum(order_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizzas.pizza_type_id = pizza_types.pizza_type_id
join order_details on
order_details.pizza_id = pizzas.pizza_id
group by pizza_types.name order by revenue desc limit 3;
```

Result Grid | Filter Row

name	revenue
the_greek	1229.5
pep_msh_pep	1027.5
pepperoni	939.75

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

```sql
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 = pizza_pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <=3;
```

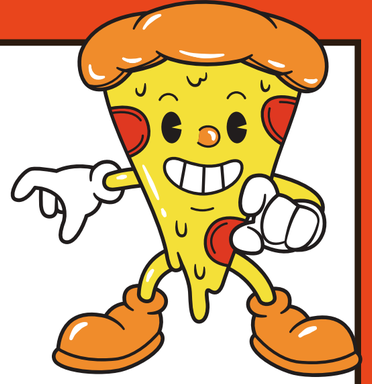


Calculate the percentage contribution of each pizza type to total revenue.

```sql
SELECT pizza_types.category,
round(SUM(order_details.quantity*pizzas.price) / (SELECT
  round(sum(order_details.quantity * pizzas.price), 2)
  as total_sales
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
```

category	revenue
M	30.79
S	24.66
L	14.49
XL	7.11
XXL	5.29

Analyze the cumulative revenue generated over time.



```sql
select order_date,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date,
sum(order_details.quantity * pizzas.price) as revenue
from order_details join pizzas
on order_details.pizza_id = pizzas.price_id
join orders
on orders.order_id = order_details.order_id
group by orders.order_date) as sales;
```