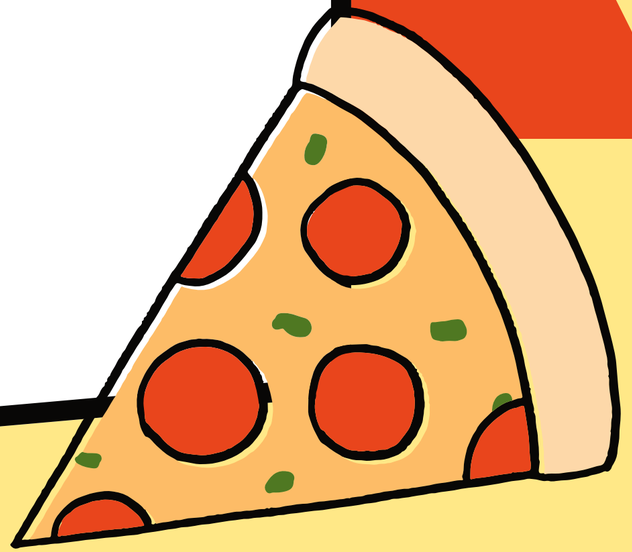
Pizza Sales

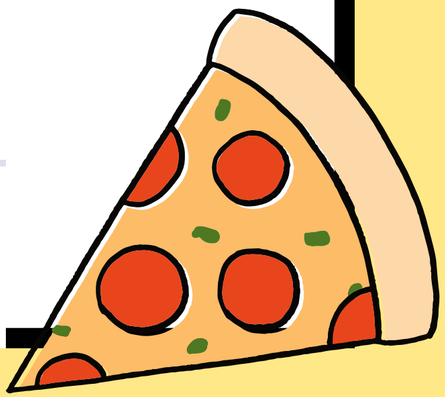


Question #1

Retrieve the total number of orders placed.

```
select * from orders
select count(order_id) as total_orders
from orders
```

total_orders
bigint
21350



Question #2

Calculate the total revenue generated from pizza sales.

```sql
select sum(order_details.quantity*pizzas.price) as total_sales
from order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id
```

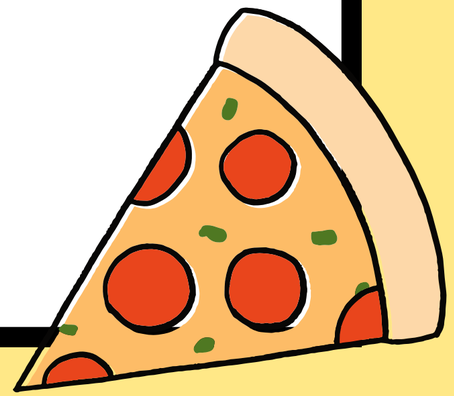
total_sales
double precision
817860.049999993

Question #3

Identify the highest-priced pizza.

```
select pizza_type.name, pizzas.price
from pizza_type join pizzas
on pizza_type.pizza_type_id = pizzas.pizza_type_id
order by pizzas.price desc limit 1
```

	name text	price double precision
1	The Greek Pizza	35.95

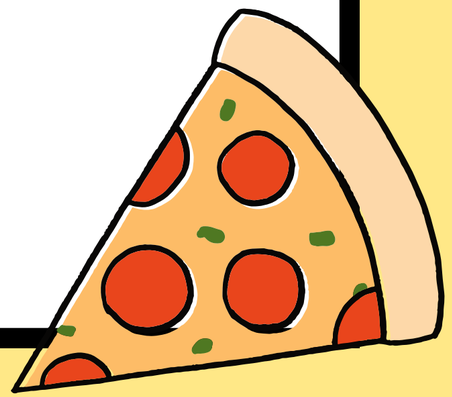


Question #5

Identify the most common pizza size ordered.

```
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
```

	size text	order_count bigint
1	L	18526
2	M	15385
3	S	14137
4	XL	544
5	XXL	28

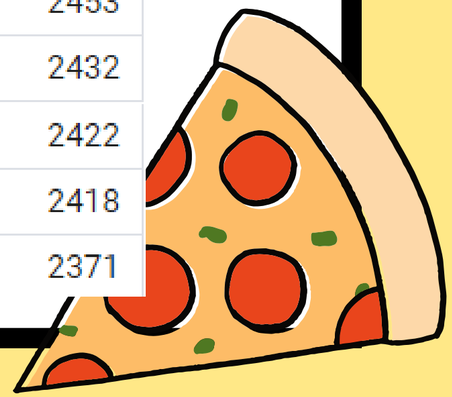


Question #6

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

```
select pizza_type.name, sum(order_details.quantity) as quantity
from pizza_type join pizzas
on pizza_type.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_type.name
order by quantity desc limit 5
```

	name text	quantity numeric
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371

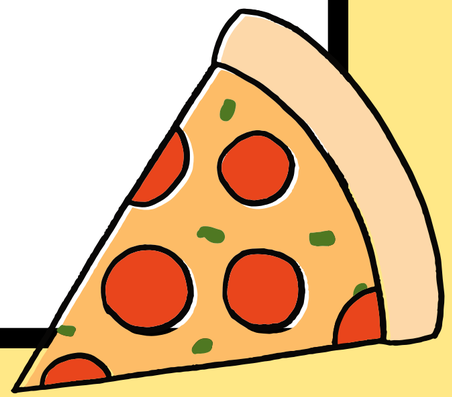


Question #7

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

```
select pizza_type.category, sum(order_details.quantity) as quantity
from pizza_type join pizzas
on pizza_type.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_type.category
order by quantity desc
```

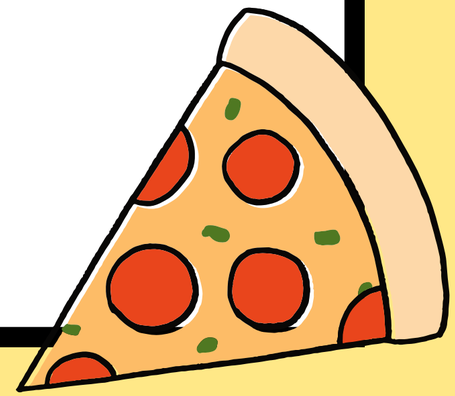
	category text	quantity numeric
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050



Question #8

Determine the distribution of orders by hour of the day.

```
select hour(order_time), count(order_id)
from orders
group by hour(order_time)
```

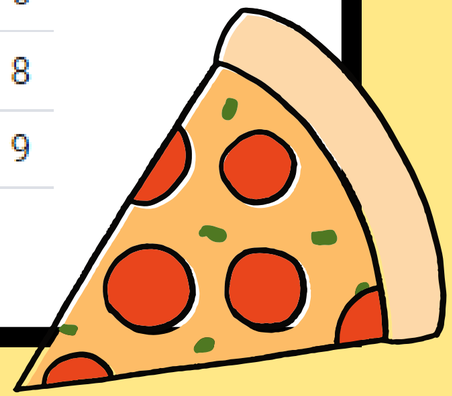


Question #8

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

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

	category text	count bigint
1	Supreme	9
2	Chicken	6
3	Classic	8
4	Veggie	9

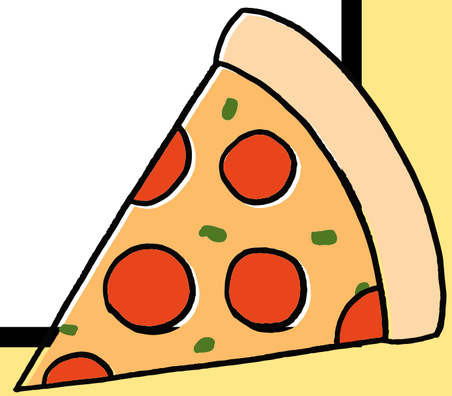


Question #8

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

```
select round(avg(quantity),0) from
(select orders.order_date, sum(order_details.quantity) as quantity
from orders join order_details
on orders.order_id = order_details.order_id
group by orders.order_date) as order_quantity
```

	round numeric
1	138

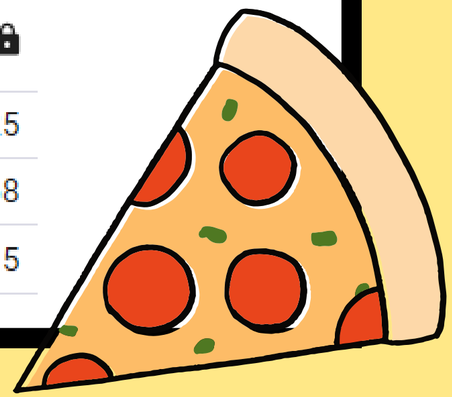


Question #8

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

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

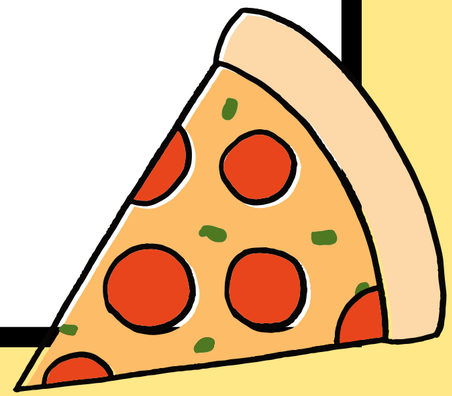
	name text	revenue double precision
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5



Question #8

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

```
select pizza_type.category,
round(sum(order_details.quantity * pizzas.price) /
(select round(sum(order_details.quantity*pizzas.price),2) as total_sales
from order order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id)*100,2) as revenue
from pizza_type join pizzas
on pizzas.pizza_type_id = pizza_type.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_type.category
order by revenue desc
```

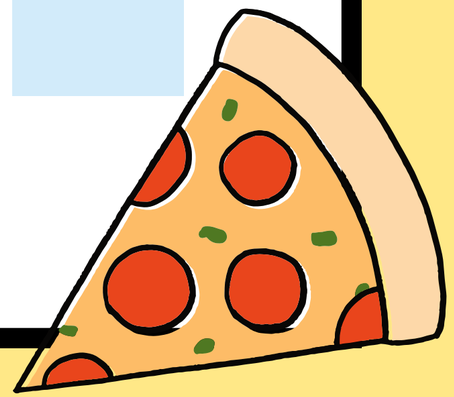


Question #8

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.pizza_id
join orders
on orders.order_id = order_details.order_id
group by orders.order_date) as sales
```

	order_date date	cum_revenue double precision
1	2015-01-01	2713.8500000000004
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.6
5	2015-01-05	11929.55
6	2015-01-06	14358.5
7	2015-01-07	16560.7

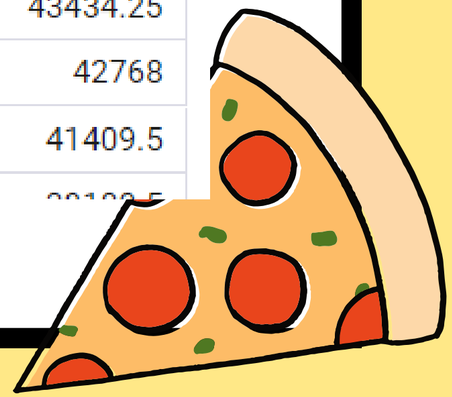


Question #8

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_type.category, pizza_type.name,
sum((order_details.quantity)*pizzas.price) as revenue
from pizza_type join pizzas
on pizza_type.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_type.category, pizza_type.name) as a) as b
where rn<=3
```

name text	revenue double precision
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5



Thank you!