



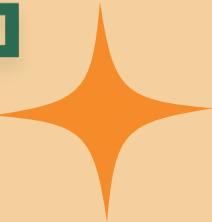
Delicious Pizza for Everyone!

Pizza
BOXCAR

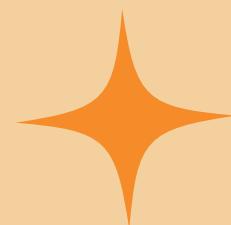




Hello !



We are pizza boxcar serving delicious pizza via the food truck way. We are ready to go around to deliver and serve pizza for you lovers.



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
select count(orders.order_id)  
from orders;
```

Result Grid	
	total_orders
	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
select  
ROUND(SUM(order_details.quantity* pizzas.price),2) as total_sales  
from pizzas  
JOIN order_details ON (pizzas.pizza_id = order_details.pizza_id);
```

Result Grid	
	total_sales
	817860.05



IDENTIFY THE HIGHEST-PRICED PIZZA.

```
select pizza_types.name,pizzas.price  
from pizza_types  
JOIN pizzas ON (pizzas.pizza_type_id = pizza_types.pizza_type_id)  
order by pizzas.price desc  
limit 1;
```

name	price
The Greek Pizza	35.95



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
select pizzas.size, count(order_details.order_details_id) as order_quantity  
from pizzas  
JOIN order_details ON ( pizzas.pizza_id = order_details.pizza_id)  
group by pizzas.size  
order by order_quantity desc;
```

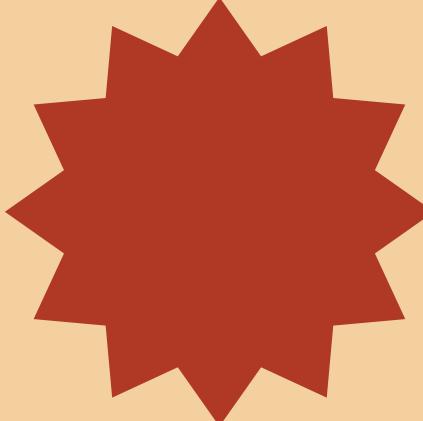
Result Grid   Filt

size	order_quantity
L	18526
M	15385
S	14137
XL	544
XXL	28

LIST THE TOP 5 MOST 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;
```

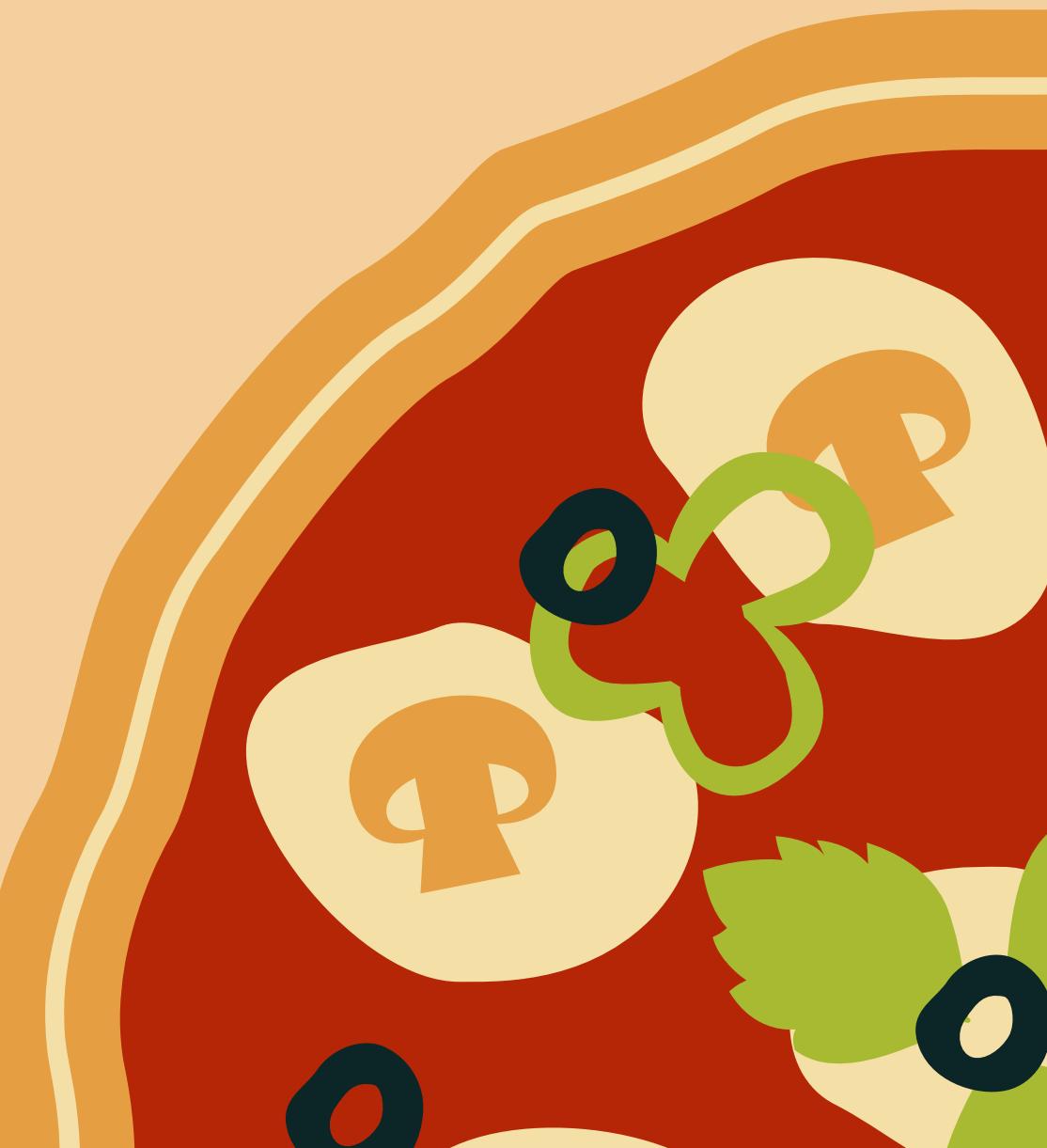
name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371



JOIN THE NECESSARY TABLES 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 (pizzas.pizza_id = order_details.pizza_id)
group by pizza_types.category
order by quantity desc;
```

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
select extract(hour from order_time)as hour, count(order_id) as order_count  
from orders  
group by extract(hour from order_time);
```

hour	order_count
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

Result 45

JOIN RELEVANT TABLES TO FIND THE
CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

Result Grid Filter Rows

category	count(name)
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(quantity),0) as average_pizza_ordered  
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;
```

average_pizza_ordered
138

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

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

Result Grid   Filter Rows:  Search

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 pizza_types.category,  
    round(SUM(pizzas.price * order_details.quantity) / (select round(SUM(pizzas.price * order_details.quantity),2) as total_sales  
        from order_details  
    JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id)*100,2) as revenue  
    from pizza_types  
    JOIN pizzas ON (pizzas.pizza_type_id = pizza_types.pizza_type_id)  
    JOIN order_details ON (pizzas.pizza_id = order_details.pizza_id)  
    group by pizza_types.category  
    order by revenue desc;
```

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date,sum(revenue) over (order by order_date) as total_revenue
from
(select orders.order_date,round(sum(pizzas.price * order_details.quantity),2) as revenue
from orders
join order_details ON (orders.order_id = order_details.order_id)
join pizzas ON (pizzas.pizza_id = order_details.pizza_id)
group by orders.order_date) as sales;
```

order_date	total_revenue
2015-01-01	2713.85
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	21526.399999999998
2015-01-10	23990.35
2015-01-11	25862.649999999998
2015-01-12	27781.699999999997
2015-01-13	29831.299999999996
2015-01-14	32358.699999999997
2015-01-15	34343.5

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
with temp_table as (select pizza_types.category,pizza_types.name,round(sum(pizzas.price * order_details.quantity),2) as revenue,
rank()over(partition by category order by sum(pizzas.price * order_details.quantity) desc) as p
from pizza_types
JOIN pizzas on (pizza_types.pizza_type_id = pizzas.pizza_type_id)
JOIN order_details on (pizzas.pizza_id = order_details.pizza_id)
group by pizza_types.category,pizza_types.name
order by pizza_types.category,revenue desc)
select category,name, revenue
from temp_table
where p <= 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	32265.7
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5