

Pizza Hut Sales



Retrieve the total number of orders placed.

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

	total_orders
▶	21350

Calculate the total revenue generated from pizza sales

```
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
```

	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_detail_id) as order_count
from pizzas join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizzas.size
order by order_count desc;
```

	size	order_count
▶	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 order_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 order_quantity desc limit 5;
```

	name	order_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 as 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 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 hour(order_time) as hour, count(order_id) as order_count from orders  
group by hour;
```

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

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

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

	category	pizza_count
	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),2) as avg_pizza_ordered_day from  
(select date(orders.order_date) as date,  
sum(order_details.quantity) as quantity  
from orders join order_details  
on order_details.order_id = orders.order_id  
group by date) as order_quantity;
```

	avg_pizza_ordered_day
▶	138.47

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 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;
```

	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.name,  
round(sum(pizzas.price * order_details.quantity) / (select round(sum(order_details.quantity * pizzas.price),0) as total_sales  
from pizzas join order_details  
on pizzas.pizza_id = order_details.pizza_id  
) *100,2) as revenue  
from pizzas join pizza_types  
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 revenue desc;
```

	name	revenue
►	The Thai Chicken Pizza	5.31
	The Barbecue Chicken Pizza	5.23
	The California Chicken Pizza	5.06
	The Classic Deluxe Pizza	4.67
	The Spicy Italian Pizza	4.26
	The Southwest Chicken Pizza	4.24
	The Italian Supreme Pizza	4.09
	The Hawaiian Pizza	3.95
	The Four Cheese Pizza	3.95
	The Sicilian Pizza	3.78
	The Pepperoni Pizza	3.69
	The Greek Pizza	3.48
	The Mexicana Pizza	3.27
	The Five Cheese Pizza	3.19
	The Pepper Salami Pizza	3.12
	The Italian Capocollo Pizza	3.07
	The Vegetables + Vegetable...	2.98
	The Prosciutto and Arugula ...	2.96
	The Napolitana Pizza	2.95

	The Spinach and Feta Pizza	2.85
	The Big Meat Pizza	2.81
	The Pepperoni, Mushroom, ...	2.3
	The Chicken Alfredo Pizza	2.07
	The Chicken Pesto Pizza	2.04
	The Soppressata Pizza	2.01
	The Italian Vegetables Pizza	1.96
	The Calabrese Pizza	1.95
	The Spinach Pesto Pizza	1.91
	The Mediterranean Pizza	1.88
	The Spinach Supreme Pizza	1.87
	The Green Garden Pizza	1.71
	The Brie Carre Pizza	1.42

Analyze the cumulative revenue generated over time.

```
select date,  
sum(revenue) over(order by date) as cum_revenue  
from  
(select orders.order_date as date,  
round(sum(pizzas.price * order_details.quantity),0) as revenue  
from pizzas join order_details  
on order_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = order_details.order_id  
group by date) as sales;
```

	date	cum_revenue
	2015-01-01	2714
	2015-01-02	5446
	2015-01-03	8108
	2015-01-04	9863
	2015-01-05	11929
	2015-01-06	14358
	2015-01-07	16560
	2015-01-08	19398
	2015-01-09	21525
	2015-01-10	23989
	2015-01-11	25861
	2015-01-12	27780
	2015-01-13	29830
	2015-01-14	32357
	2015-01-15	34342
	2015-01-16	36936
	2015-01-17	39000
	2015-01-18	40977
	2015-01-19	43364

	2015-01-20	45762
	2015-01-21	47803
	2015-01-22	50300
	2015-01-23	52724
	2015-01-24	55013
	2015-01-25	56631
	2015-01-26	58515
	2015-01-27	61043
	2015-01-28	63059
	2015-01-29	65104
	2015-01-30	67374
	2015-01-31	69792
	2015-02-01	72981
	2015-02-02	75310
	2015-02-03	77925
	2015-02-04	80159
	2015-02-05	82375
	2015-02-06	84885

	2015-02-07	87123
	2015-02-08	89158
	2015-02-09	91353
	2015-02-10	93410
	2015-02-11	95870
	2015-02-12	98029
	2015-02-13	100783
	2015-02-14	103102
	2015-02-15	105243
	2015-02-16	107212
	2015-02-17	109334
	2015-02-18	111977
	2015-02-19	114007
	2015-02-20	116898
	2015-02-21	119009
	2015-02-22	120589
	2015-02-23	122758
	2015-02-24	124953

Calculate the percentage contribution of each pizza type to total by category

```
select pizza_types.category,  
round(sum(pizzas.price * order_details.quantity) / (select round(sum(order_details.quantity * pizzas.price),0) as total_sales  
from pizzas join order_details  
on pizzas.pizza_id = order_details.pizza_id  
) *100,2) as revenue  
from pizzas join pizza_types  
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 revenue desc  
;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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 rn
from
(select pizza_types.category as category,
pizza_types.name as name,
round(sum(pizzas.price * order_details.quantity),0) as revenue
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
join pizza_types
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by category, name) as a) as b
where rn <= 3;
```

	category	name	revenue
	Chicken	The Thai Chicken Pizza	43434
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41410
	Classic	The Classic Deluxe Pizza	38180
	Classic	The Hawaiian Pizza	32273
	Classic	The Pepperoni Pizza	30162
	Supreme	The Spicy Italian Pizza	34831
	Supreme	The Italian Supreme Pizza	33477
	Supreme	The Sicilian Pizza	30940
	Veggie	The Four Cheese Pizza	32266
	Veggie	The Mexicana Pizza	26781
	Veggie	The Five Cheese Pizza	26066