

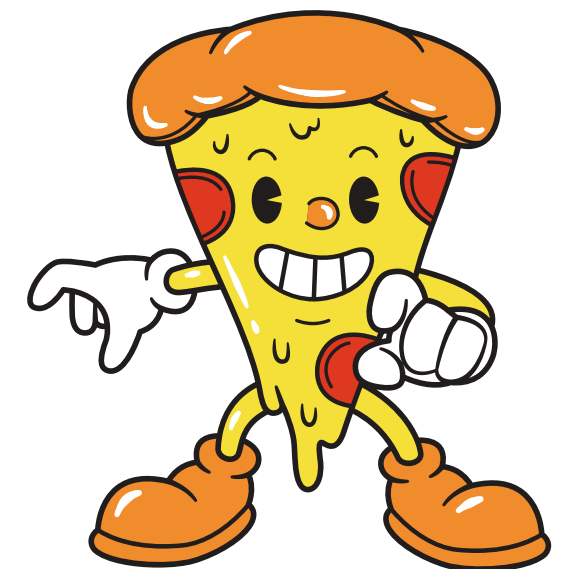
PIZZA HUT SALES ANALYSIS

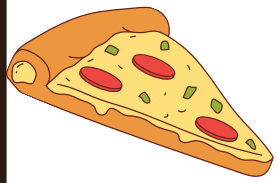
SQL PROJECT



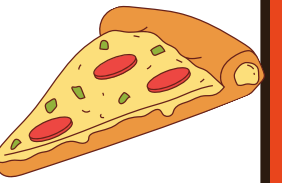
INTRODUCTION

THIS PROJECT INVOLVES ANALYZING PIZZA HUT SALES DATA USING SQL TO EXTRACT MEANINGFUL INSIGHTS AND IMPROVE BUSINESS DECISION-MAKING PROCESSES. THE ANALYSIS COVERS VARIOUS DIMENSIONS SUCH AS SALES PERFORMANCE, CUSTOMER BEHAVIOR, PRODUCT PREFERENCES, AND OPERATIONAL EFFICIENCY.



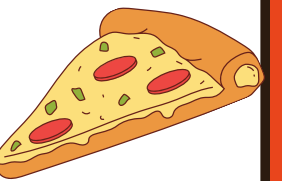
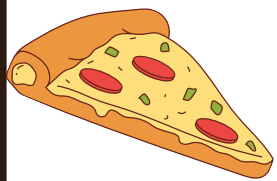


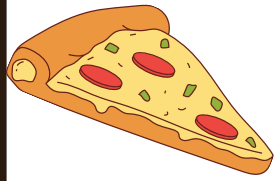
Retrieve the total number of orders placed.



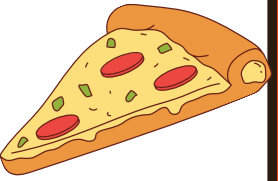
```
Select count(order_id) As total_orders from orders
```

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
```

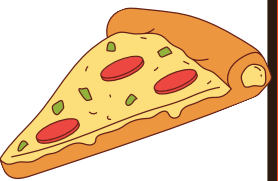
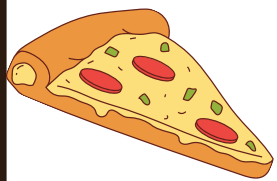
FROM

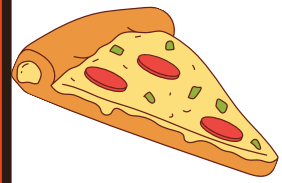
```
order_details
```

JOIN

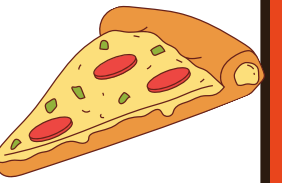
```
pizzas ON pizzas.pizza_id = order_details.pizza_id
```

total_sales
817860.05



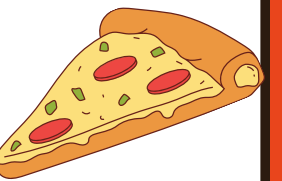
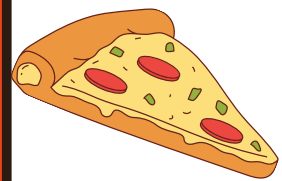


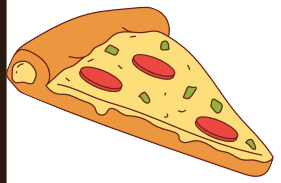
Identify the highest-priced pizza.



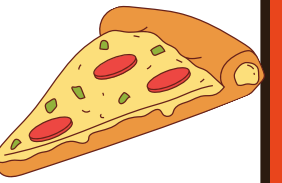
```
select pizza_types.name ,pizzas.price  
  from pizza_types join pizzas  
on pizza_types.pizza_type_id= pizzas.pizza_type_id  
order by pizzas.price desc limit 1;
```

	name	price
▶	The Greek Pizza	35.95



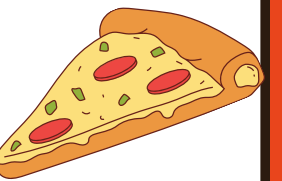
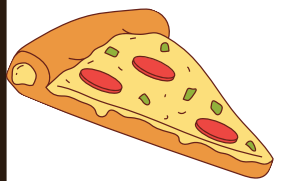


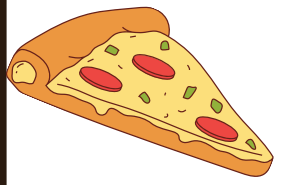
Identify the most common pizza size ordered.



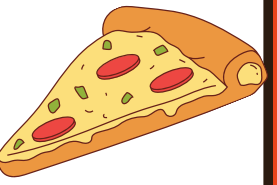
```
Select pizzas.size, count(order_details.order_details_id) As order_count
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
group by pizzas.size order by order_count Desc ;
```

	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



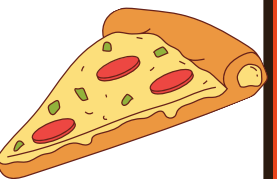
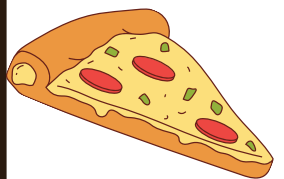


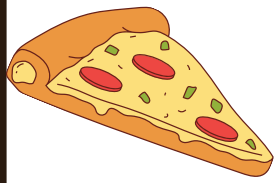
List the top 5 most ordered pizza types along with their quantities.



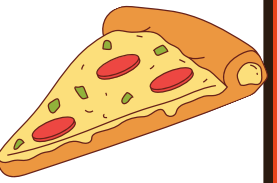
```
Select pizza_types.name,  
Sum(order_details.quantity) as quantity  
from pizza_types join pizzas  
on pizza_types.pizza_type_id=pizzas.pizza_type_id  
join order_details  
on order_details.pizza_id=pizzas.pizza_id  
Group by pizza_types.name  
order by quantity desc limit 5;
```

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



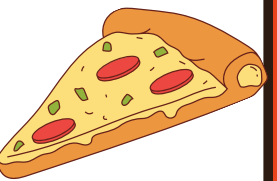
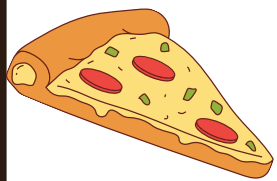


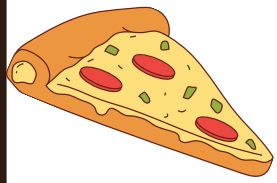
Join the necessary tables to find the total quantity of each pizza category ordered.



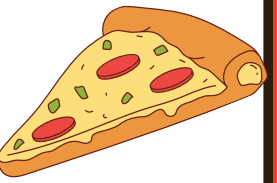
```
Select  pizza_types.category,  
Sum(order_details.quantity) As quantity  
from pizza_types join pizzas  
on pizza_types.pizza_type_id = pizzas.pizza_type_id  
join order_details  
on order_details.pizza_id =pizzas.pizza_id  
Group by pizza_types.category order by quantity desc;
```

Result Grid			Filter
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	



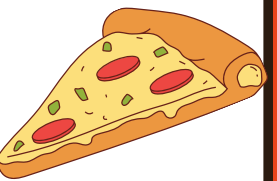
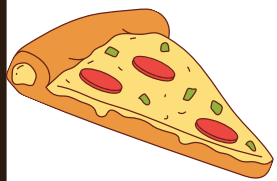


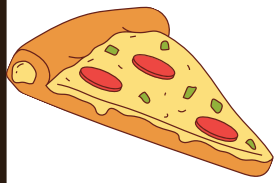
Determine the distribution of orders by hour of the day.



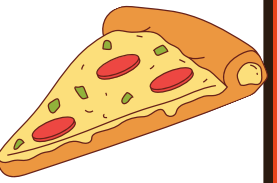
```
Select hour(order_time) As hour, count(order_id )As order_count from orders  
Group by hour(order_time)
```

	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468



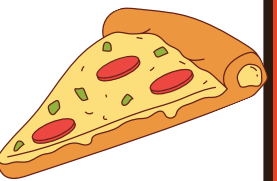
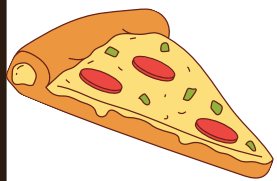


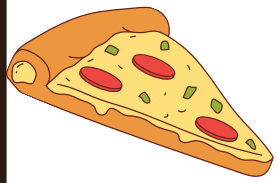
Join relevant tables to find the category-wise distribution of pizzas.



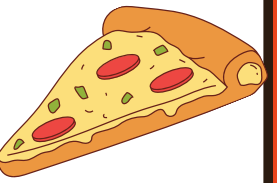
```
Select category , count(name) from pizza_types  
group by category;
```

	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



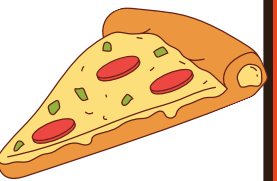
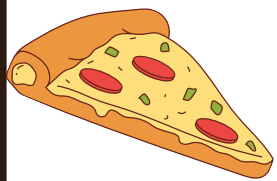


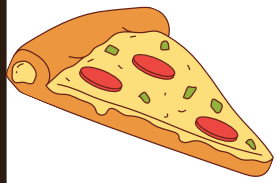
Group the orders by date and calculate the average number of pizzas ordered per day.



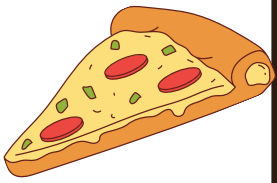
```
Select round(avg(quantity),0) as avg_pizza_ordered_par_day from  
(Select orders.order_date, Sum(order_details.quantity) as quantity  
from orders join order_details  
on orders.order_id = order_details.order_id  
group by orders.order_date ) as order_quantity
```

	avg_pizza_ordered_par_day
▶	138



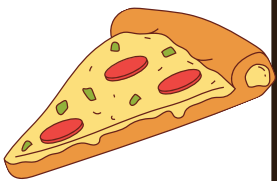
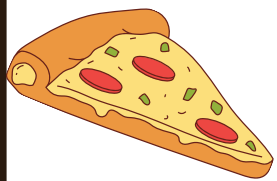


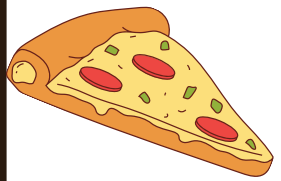
Determine the top 3 most ordered pizza types based on revenue.



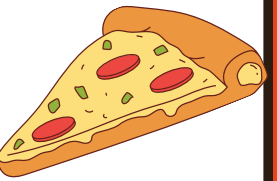
```
Select pizza_types.name,  
sum(order_details.quantity * pizzas.price) As revenue  
from pizza_types join pizzas  
on pizzas.pizza_type_id = pizza_types.pizza_type_id  
join order_details  
on order_details.pizza_id = pizzas.pizza_id  
group by pizza_types.name order by revenue desc limit 3;
```

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



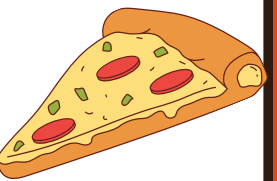
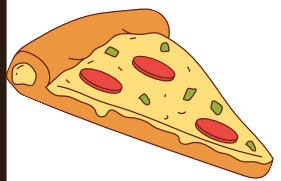


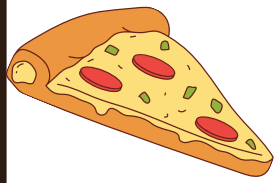
Calculate the percentage contribution of each pizza type to total revenue.



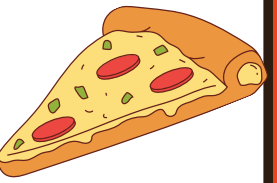
```
SELECT
    pizza_types.category,
    round(SUM(order_details.quantity * pizzas.price) / (SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
        2) AS total_sales
FROM
    order_details
    JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id)*100,2) as revenue
FROM
    pizza_types
JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY
    pizza_types.category
ORDER BY
    revenue DESC;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



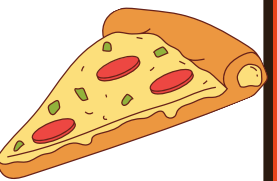
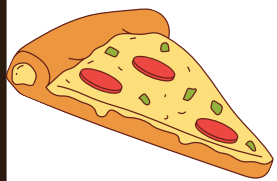


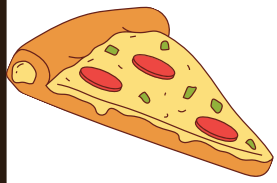
Analyze the cumulative revenue generated over time.



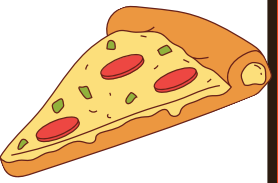
```
select order_date,  
sum(revenue) over(order by order_date) as cum_revenue  
from  
(Select orders.order_date,  
sum( order_details.quantity * pizzas.price) as revenue  
from order_details join pizzas  
on order_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = order_details.order_id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

	order_date	cum_revenue
▶	2015-01-01	2713.85000000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55



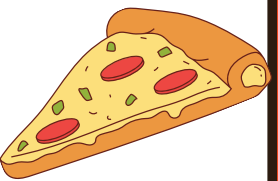
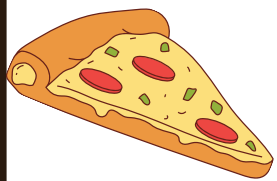


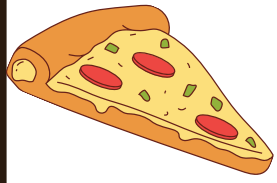
Determine the top 3 most ordered pizza types based on revenue for each pizza category.



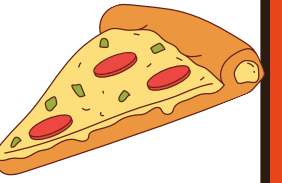
```
Select name, revenue from
) (Select category, name, revenue,
rank() over (partition by category order by revenue desc) as rn
from
) (Select pizza_types.category, pizza_types.name,
Sum(order_details.quantity* pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <= 3;
```

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38180.5
	The Hawaiian Pizza	32273.25

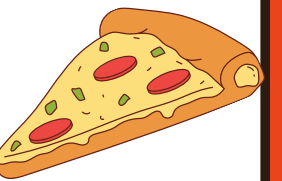
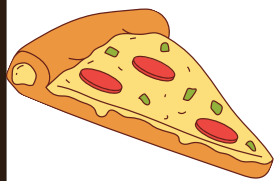


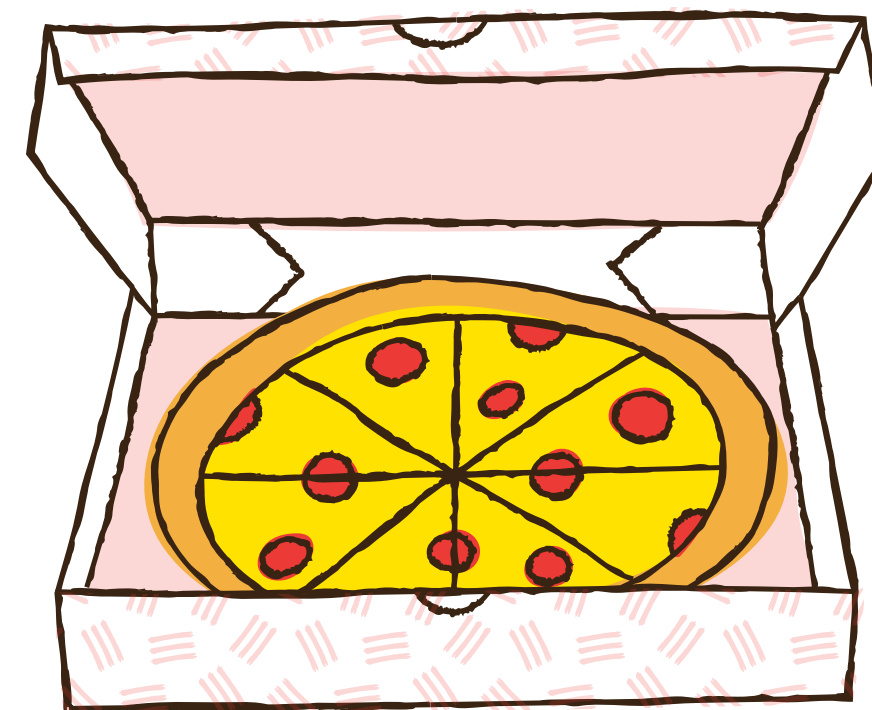
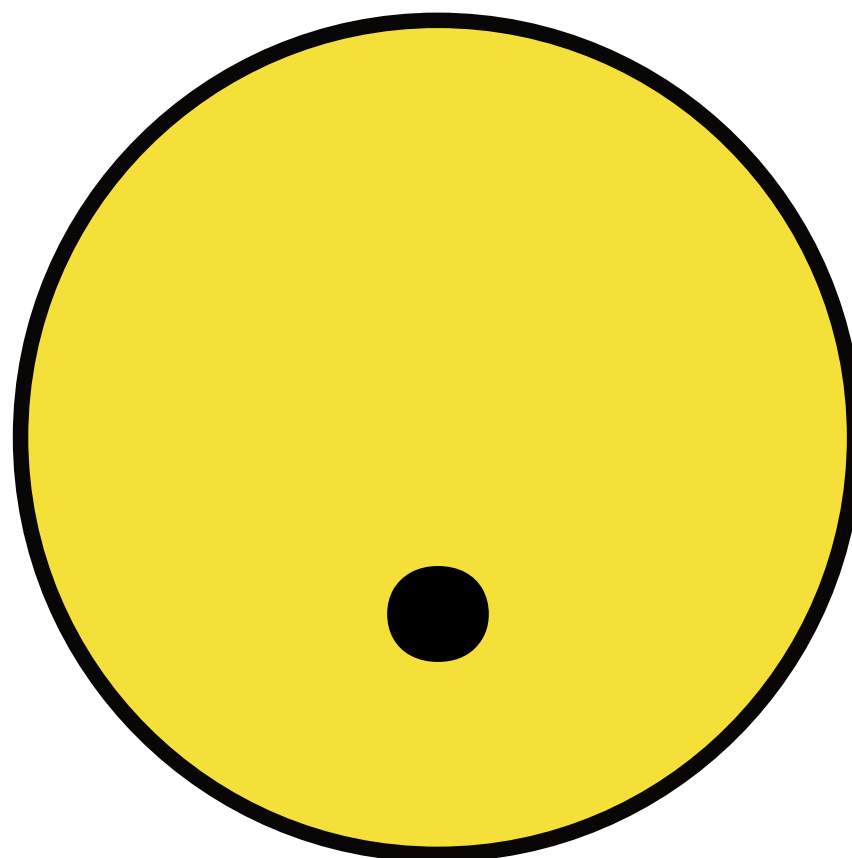
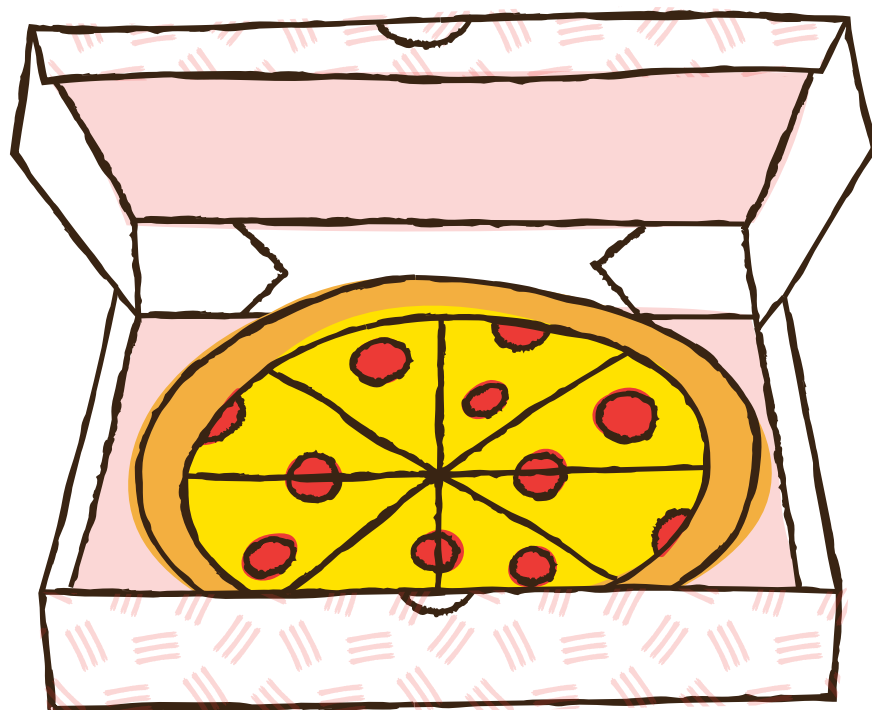


Conclusion.



- Improve inventory management.
- Tailor marketing strategies.
- Enhance customer experience.
- Optimize operational efficiency.





Thank you.