



OBJECTIVE

The main objective of this project is to analyze pizza sales data to gain insights into customer preferences, popular pizza types, peak ordering hours with the goal of optimizing inventory management, marketing strategies, and overall business performance



Retrieve the total number of orders placed.



select count(order_id) as total_number_of_orders_placed from orders;

Output: 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;

Output: 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;

Output:

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

LIMIT 1;

Output: size order_count

L 18526

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
OUTPUT:	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;

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050
	Classic Supreme Veggie

Determine the distribution of orders by hour of the day



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

	hour_of_order	order_count
OUTPUT:	9	1
	10	8
	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

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

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

OUTPUT:

category	distribution_of_pizzas
Supreme	9
Chicken	6
Classic	8
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_per_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;
```

OUTPUT:

avg_pizza_ordered_per_day

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;

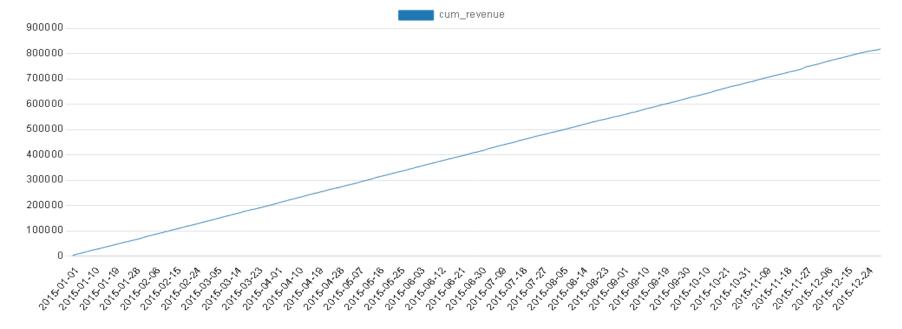
category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68
	Classic Supreme Chicken

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;

OUTPUT:



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



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	category	revenue
OUTPUT:	The Thai Chicken Pizza	Chicken	43434.25
	The Barbecue Chicken Pizza	Chicken	42768
	The California Chicken Pizza	Chicken	41409.5
	The Classic Deluxe Pizza	Classic	38180.5
	The Hawaiian Pizza	Classic	32273.25
	The Pepperoni Pizza	Classic	30161.75
	The Spicy Italian Pizza	Supreme	34831.25
	The Italian Supreme Pizza	Supreme	33476.75
	The Sicilian Pizza	Supreme	30940.5
	The Four Cheese Pizza	Veggie	32265.7
	The Mexicana Pizza	Veggie	26780.75
	The Five Cheese Pizza	Veggie	26066.5

THANK YOU

