A SLICE OF HAPPINESS

The SQL Pizza Sale Project is a data analysis initiative aimed at exploring and understanding sales trends, customer preferences, and business performance in a pizza restaurant. By leveraging SQL queries on a structured dataset, this project extracts key insights related to sales revenue, popular pizza types, order frequency, peak sales hours, and customer behavior.

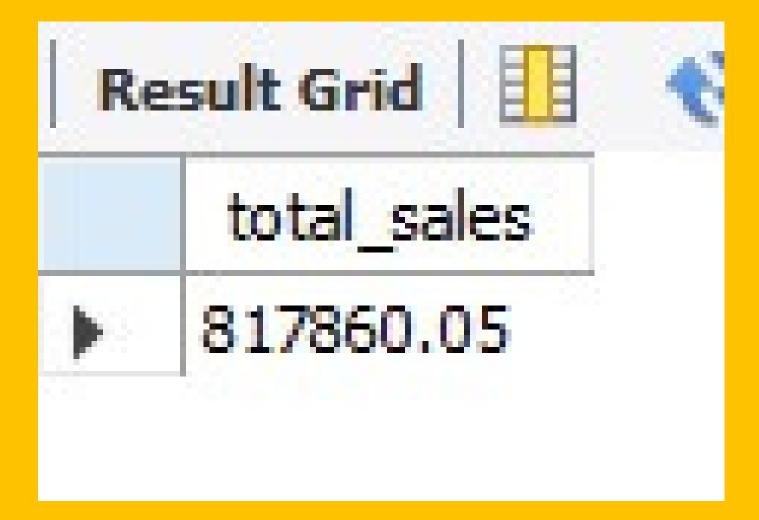
Retrieve the total number of orders placed.

SELECT
COUNT(order_id)
FROM
orders;



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;



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;

R	esult Grid	Filter Rows:
	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;

Result GridNote: The Rows:namequantity▶ The Classic Deluxe Pizza2453The Barbecue Chicken Pizza2432The Hawaiian Pizza2422The Pepperoni Pizza2418The Thai Chicken Pizza2371

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

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);

Re	esult Gri	d 🚻 💎 Filter
	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

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

SELECT
category, COUNT(name)
FROM
pizza_types
GROUP BY category;

R	esult 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 avg_pizza_orderd_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;



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;

IN	esult Grid	VY3.
	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;

Re	esult Grid	☐ ₹ Filter R
	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65

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 Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5