FIZZA SALES ANALUSIS







The Pizza Sales Analysis project aims to explore and analyze the sales data of a pizza chain using SQL. The purpose of this analysis is to gain valuable insights into customer preferences, sales trends, and business performance. By leveraging SQL queries, we are able to extract key metrics such as total revenue, best-selling pizzas, and peak sales periods. These insights help businesses optimize their operations, streamline inventory management, and tailor marketing strategies to boost overall sales and customer satisfaction.





Orders

orders_id

orders_date

order_time

Orders_details

order_details_id

order_id

Pizza_id

Quantity



Pizza_types

pizza_type_id

name

category

ingredients

Pizzas

pizza_id

pizza_type_id

size

price





1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.











2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.





```
SELECT

ROUND(SUM(orders_details.quantity * pizzas.price),

2) AS total_revenue

FROM

orders_details

JOIN

pizzas ON orders_details.pizza_id = pizzas.pizza_id;
```







3. 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;
```





4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.









5. LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.





```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
        orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

Result Grid		
	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



6. JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY DRDERED.





```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS total_quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
```

Result Grid 11 🙌 Filter Ro		
	category	total_quantity
•	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050



7. DETERMINE THE DISTRIBUTION OF DROERS BY HOUR OF THE DAY.





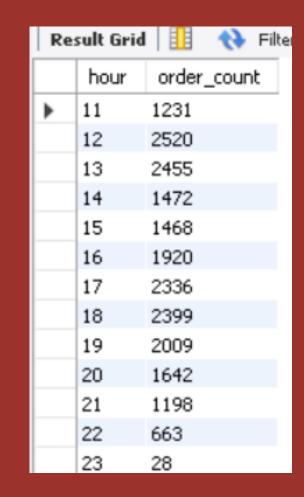
SELECT

HOUR(order_time) A5 hour, COUNT(order_id) A5 order_count

FROM

orders

GROUP BY HOUR(order_time)

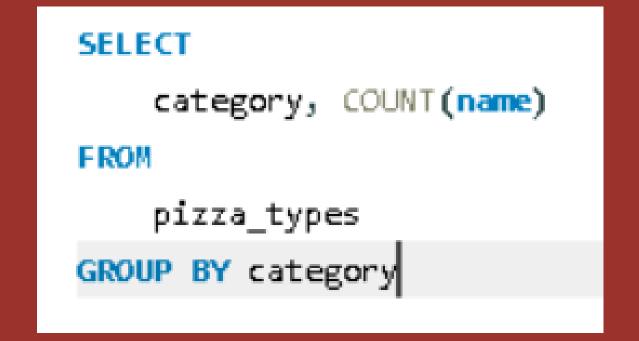




8. JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.









Re	sult Grid 📙	Filter Rows
	category	COUNT(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9
	-	



9. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.





```
SELECT

ROUND(AVG(quantity), 0) AS avg_pizzas_orders_per_day

FROM

(SELECT

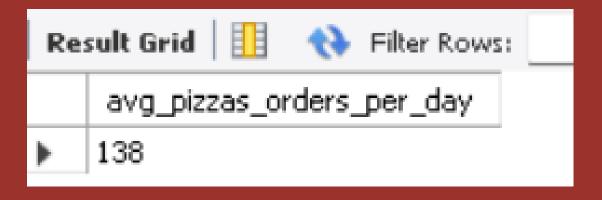
orders.order_date, SUM(orders_details.quantity) AS quantity

FROM

orders

JOIN orders_details ON orders.order_id = orders_details.order_id

GROUP BY orders.order_date) AS order_quantity
```





10. DETERMINE THE TOP 3 MOST DROERED PIZZA TYPES BASED ON REVENUE.





```
SELECT

pizza_types.name,

SUM(orders_details.quantity * pizzas.price) AS revenue

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

orders_details ON orders_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

ORDER BY revenue DESC

LIMIT 3
```

Result Grid		
	name	revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza 42768	
	The California Chicken Pizza	41409.5



11. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.



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

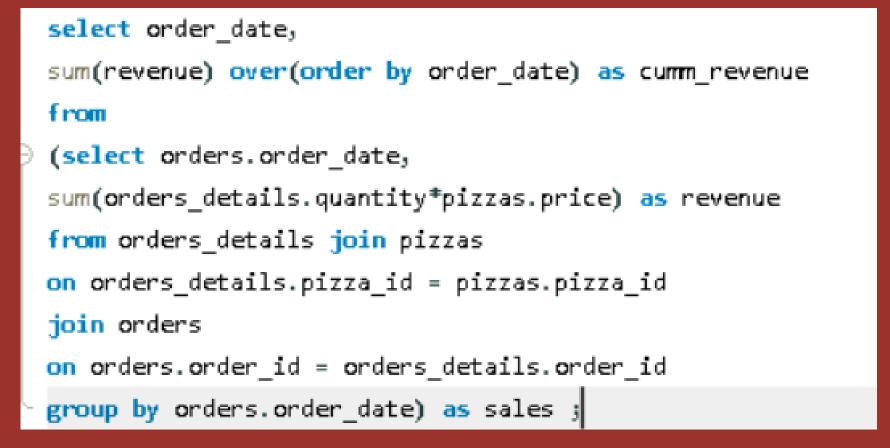




12. ANALYZE THE CUMULATIVE REVENUE GENERATED

OVER TIME.





Re	sult Grid 🔠	Name of the Property of the Pr
	order_date	cumm_revenue
Þ	2015-01-01	2713.8500000000004
	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





13. DETERMINE THE TOP 3 MOST DROERED 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.name, pizza_types.category,
    SUM(orders_details.quantity * pizzas.price) AS revenue
    from pizza_types join pizzas
    on pizza_types.pizza_type_id = pizzas.pizza_type_id
    join orders_details
    on orders_details.pizza_id = pizzas.pizza_id
    group by pizza_types.name, pizza_types.category) as a ) as b
    where rn <=3;</pre>
```

	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



