Slice Analytics

Portfolio project based on SQL





Description

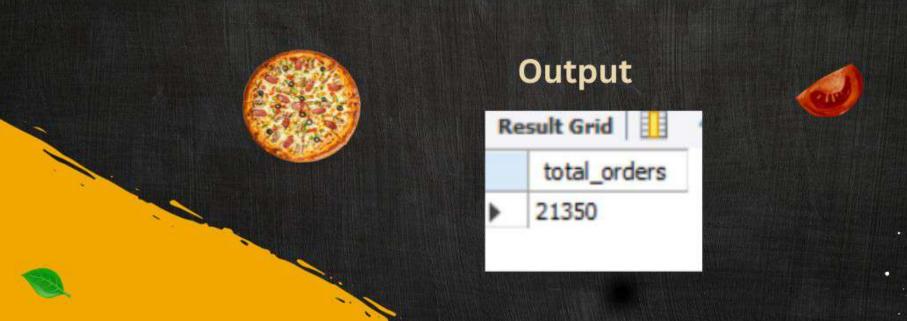
The Slice Analytics project leverages SQL to analyze and visualizes sales data. Identifying the key trends and performances metrices. This project aims to optimize inventory management, enhance marketing strategies and improve overall sales efficiency for a pizza business.





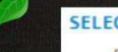
Query 1- Retrieve the total number of orders placed.

select count(order_id) as total_orders from orders;





Query 2-Calculate total revenue generate from pizza sales.



```
SELECT

ROUND(SUM(order_details.qunatity * pizzas.price),

2) AS total_revenue

FROM

order_details

JOIN

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









Query 3- Identify the highest priced pizza.





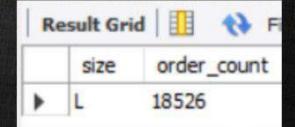




Query 4- Identify the most common pizza size ordered











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

```
select pizza_types.name,
sum(order_details.qunatity) 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;
```



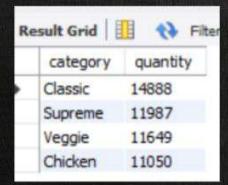


	Result Grid [] 🙌 Filter Rows:				
	name	quantity			
٠	The Classic Deluxe Pizza	2453			
	The Barbecue Chicken Pizza	2432			
	The Hawaiian Pizza	2422			
	The Pepperoni Pizza	2418			
	The Thai Chicken Pizza	2371			



Query 6- Join the necessary tables to find the total quantity of each pizza category ordered.





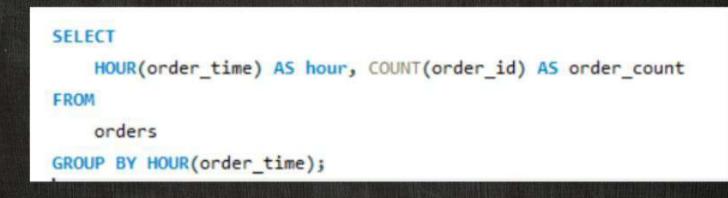
```
SELECT
    pizza_types.category,
    SUM(order_details.qunatity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```



Query 7- Determine the distribution of orders by hour of the day.



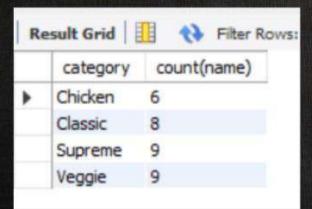


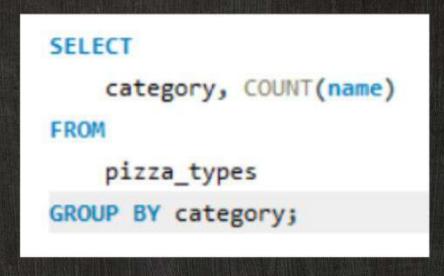




Query 8- Join relevant tables to find the category wise distribution of pizzas.











Query 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.qunatity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS order_quantity;
```







Query 10- Determine the top 3 most ordered pizza types based on revenue



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

```
SELECT

pizza_types.name,

SUM(order_details.qunatity * 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;
```







Calculate the percentage contribution of each pizza type to total revenue

```
SELECT

pizza_types.category,

(SUM(order_details.qunatity * pizzas.price) / (SELECT

ROUND(SUM(order_details.qunatity * pizzas.price),

2) AS total_sales

FROM

order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100 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_type_id

GROUP BY pizza_types.category

ORDER BY revenue DESC;
```



category	revenue
Classic	26.90596025566967
Supreme	25.45631126009862
Chicken	23.955137556847287
Veggie	23.682590927384577





Query 12- 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.qunatity * 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	2713.8500000000004
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
2015-01-10	23990.350000000002
2015-01-11	25862.65





Query 13- Detemine 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.qunatity) * 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
```





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





Conclusion



Slice Analytics project demonstrates the power of data analytics in driving informed decision-making and achieving business growth in the competitive pizza industry.



