




LARANA PIZZA

SQL PROJECT ON PIZZA SELL





WELCOME TO MY SQL PROJECT

I, Aryan Giri from NIT Agartala,  pleased to upload my SQL project, which focuses on solving 13 analytical problems related to Pizza Hut. This project demonstrates various SQL queries and techniques to analyze sales, customer preferences, order trends, and other key insights. Each problem is accompanied by a structured solution, providing a comprehensive understanding of data manipulation and retrieval. Through this project, I aim to showcase my proficiency in SQL and data analytics by tackling real-world business challenges in the food industry





LARANA PIZZA

1. Retrieve the total number of orders placed.

```
SELECT  
COUNT(order_id) AS Total_orders  
FROM  
orders;
```





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2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT  
ROUND(SUM(pizzas.price * order_details.quantity),  
3) AS total_revenue  
FROM  
order_details  
JOIN  
pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

3. Identify the highest-priced pizza.

```
SELECT  
pizza_types.name, pizzas.price  
FROM  
pizzas  
JOIN  
pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
ORDER BY pizzas.price DESC  
LIMIT 1;
```




4. 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;
```

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



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```
SELECT  
  pizza_types.name,  
SUM(order_details.quantity) AS sum_quantity  
FROM  
  pizzas  
JOIN  
pizza_types 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 sum_quantity DESC  
LIMIT 5;
```

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



```
SELECT  
    pizza_types.category,  
SUM(order_details.quantity) AS sum_quant  
FROM  
    pizzas  
JOIN  
pizza_types 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 sum_quant DESC;
```





7. 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)
ORDER BY COUNT(order_id) DESC;***





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

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

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

```
SELECT  
round(AVG(T_orders),0) as avg_pizza_ordered_per_day  
FROM  
(SELECT  
orders.order_date AS date,  
SUM(order_details.quantity) AS T_orders  
FROM  
orders  
JOIN order_details ON orders.order_id = order_details.order_id  
GROUP BY date  
ORDER BY T_orders DESC) AS order_quantity;
```


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



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```
SELECT  
    pizza_types.name,  
SUM(order_details.quantity * pizzas.price) AS revenue  
FROM  
    pizzas  
JOIN  
pizza_types 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;
```





11. 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 order_details.pizza_id = pizzas.pizza_id) * 100,
        2) AS revenue_percent
    FROM
        pizzas
    JOIN
        pizza_types 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.category
    ORDER BY revenue_percent DESC;
```


12. ANALYZE THE CUMALATICVE REVENUE GENERATED OVER TIME

```
select order_date,  
round(sum(revenue) over(order by  
order_date),2) 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 ;
```



13. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
select category,name,round(revenue,2) as  
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 order_details join pizzas  
on order_details.pizza_id =  
pizzas.pizza_id  
join pizza_types  
on pizza_types.pizza_type_id =  
pizzas.pizza_type_id  
group by  
pizza_types.category,pizza_types.name)  
as a) as b where rn <=3;
```

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This concludes my SQL project, where I have addressed 13 analytical problems related to Pizza Hut with structured queries and insights. Through this work, I aimed to showcase effective data analysis techniques that can be applied to real-world business scenarios. I hope this project serves as a valuable reference for understanding SQL-based problem-solving in analytics

