

SQL PROJECT ON PIZZA SALES

Hello My name is Amit Sharma and i have used sql query to solve various questions related to a pizza store.



LIST OF QUESTIONS

Retrieve the total number of orders placed

Calculate the total revenue generated from pizza sales

Identify the highest-priced pizza

Identify the most common pizza size ordered

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

Join the necessary tables to find the total quantity of each pizza category ordered

Determine the distribution of orders by hour of the day.

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

Group the orders by date and calculate the average number of pizzas ordered per day

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

Calculate the percentage contribution of each pizza type to total revenue

Analyze the cumulative revenue generated over time.

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

Retrieve the total number of orders placed

```
SELECT  
    COUNT(*) Total_Number  
FROM orders;
```

Total Number
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 order_details.pizza_id = pizzas.pizza_id;
```

Total Revenue

817860.05

Identify the highest-priced pizza.

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

name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered.

```
SELECT  
    pizzas.size,  
    COUNT(order_details.order_details_id) AS High_sales  
FROM  
    pizzas  
        JOIN  
    order_details ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY pizzas.size  
ORDER BY High_sales DESC  
LIMIT 1;
```

size

sales

18526

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

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS Total_quantity
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 Total_quantity DESC
LIMIT 5;
```

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) total_Q  
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.category  
ORDER BY total_Q DESC;
```

category	total_Quant
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);
```

hour	order_count
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

Group the orders by date and calculate the average number of pizzas ordered per day

```
SELECT  
    ROUND(AVG(quantity), 0) as avg_pizza_ordered_perday  
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_by_date;
```

avg_pizza_ordered_perday

138

Determine the top 3 most ordered pizza types based on revenue

```
SELECT  
    pizza_types.name,  
    ROUND(SUM(order_details.quantity * pizzas.price),  
        2) AS sales  
FROM  
    order_details  
        JOIN  
    pizzas ON pizzas.pizza_id = order_details.pizza_id  
        JOIN  
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
GROUP BY name ORDER BY sales DESC LIMIT 3;
```

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 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

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;
```

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
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343.500000000001
2015-01-16	36937.650000000001
2015-12-15	787777
2015-12-16	790012
2015-12-17	791893
2015-12-18	794779
2015-12-19	797083
2015-12-20	799188
2015-12-21	801289
2015-12-22	803172
2015-12-23	805416
2015-12-24	807554
2015-12-26	809197
2015-12-27	810616
2015-12-28	812253
2015-12-29	813606
2015-12-30	814944
2015-12-31	817266

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

```
select name,sales from
(select category,name,sales,
rank() over(partition by category order by sales) as rn
from
(select pizza_types.category,pizza_types.name, sum(order_details.quantity * pizzas.price) as sales
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.category,pizza_types.name) as a) as b
where rn<= 3;
```

name	sales
The Chicken Pesto Pizza	16701.75
The Chicken Alfredo Pizza	16900.25
The Southwest Chicken Pizza	34705.75
The Pepperoni, Mushroom, and Peppers Pizza	18834.5
The Big Meat Pizza	22968
The Napolitana Pizza	24087
The Brie Carre Pizza	11588.49999999999
The Spinach Supreme Pizza	15277.75
The Calabrese Pizza	15934.25
The Green Garden Pizza	13955.75
The Mediterranean Pizza	15360.5
The Spinach Pesto Pizza	15596



THANK YOU

“Have fun making your own pizza
and enjoy every bite”