

LARANA PIZZA

SQL PROJECT ON PIZZA SALES





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WELCOME TO PIZZA SALES PROJECT

Hello my name is PRAJWAL BRAMHANKAR and in this project i have utilize SQL queries solve the quetions that are related to pizza sales.



QUESTIONS



Basic:

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.

Intermediate:

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.

Advanced:

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.



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IT'S ME



PRAJWAL

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

SELECT

```
COUNT(order_id) AS total_orders
```

FROM

```
orders;
```

total_orders
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 pizzas.pizza_id = order_details.pizza_id
```

	total_sales
▶	817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA.

SELECT

```
pizza_types.name, pizzas.price pizzas
```

FROM

```
pizza_types
```

JOIN

```
pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
```

ORDER BY pizzas.price DESC

```
LIMIT 1;
```

	name	pizzas
▶	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;

	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

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);
```

	hour	order_count
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468

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

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

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_ordered_per_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;
```

	avg_pizza_ordered_per_day
▶	138

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;

	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;
```

	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
2015-03-20	181122.05	
2015-03-21	183389.44999999998	
2015-03-22	184648.69999999998	
2015-03-23	186881.24999999997	
2015-03-24	189043.54999999996	
2015-03-25	190971.29999999996	
2015-03-26	193186.79999999996	
2015-03-27	195931.59999999995	
2015-03-28	198183.69999999995	
2015-03-29	200337.94999999995	
2015-03-30	202593.39999999997	
2015-03-31	205349.99999999997	
2015-04-01	207526.84999999998	
2015-04-02	210073.99999999997	
2015-04-03	212612.19999999998	

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 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



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THANK YOU!

