



Pizza Sales

SQL Project

Let's Go











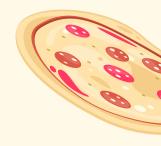






ABOUT THE Project

Hello, my name is Frenny. In this project, I have utilized SQL queries to solve various questions related to pizza sales analysis.















- 1. Retrieve the total number of orders placed.
- 2. Calculate the total revenue generated from pizza sales.
- 3. Identify the highest-priced pizza.
- 4. Identify the most common pizza size ordered.
- 5. List the top 5 most ordered pizza types along with their quantities.
- 6. Join the necessary tables to find the total quantity of each pizza category.
- 7. Determine the distribution of orders by hour of the day.
- 8. Join relevant tables to find the category-wise distribution of pizzas.
- 9. Group the orders by date and calculate the average number of pizzas ordered per day.
- 10. Determine the top 3 most ordered pizza types based on revenue
- 11. Calculate the percentage contribution of each pizza type to total revenue.
- 12. Analyse the cumulative revenue generated over time.
- 13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.





DataBase

Administration	Schemas	
SCHEMAS		43
Q Filter objects		
√ ⊜ leoPizzas		
🗸 🛅 Tables		
> order_details		
> orders		
> pizzas		
> pizza_types		







1. Retrieve the total number of orders placed.

```
1 — Retrieve the total number of orders placed.
```

2

3 • select count(order_id) as total_orders from orders;





total_orders









```
SELECT

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

2) AS total_sales

FROM

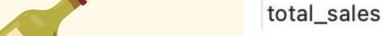
order_details

JOIN

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







817860.05





3. Identify the highest-priced pizza.





name	price
The Greek Pizza	35.95









```
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
М	15385
S	14137
XL	544
XXL	28









5. 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











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

```
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;
```

Classic 14888 Supreme 11987 Veggie 11649	category	quantity
Supreme 11987	Classic	14000
	1000	







select hour(order_time), count(order_id) as orders from orders
group by hour(order_time);

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



order
1231
2520
2455

hour





8 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









```
SELECT
                                                              avg_sales_of_pizza_perday
   ROUND(AVG(quantity), 0) as avg_sales_of_pizza_perday
FROM
                                                              138
    (SELECT
        orders.order date, SUM(order details.guantity) AS quantity
    FROM
        orders
    JOIN order details ON orders.order id = order details.order id
    GROUP BY orders.order_date) AS quantity_perday;
```





```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order details.quantity * pizzas.price),
                                2)
                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;
```



20200200
26.91
25.46
23.96
23.68







12. Analyse the cumulative revenue generated over time.

```
select order_date,
sum(revenue)over(order by order_date) as cum_rev
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_rev
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 ordered pizza types based on revenue for each pizza category.

```
SELECT category, name, revenue, rnk
FROM
    (SELECT pizza_types.category, pizza_types.name,
            SUM(order_details.quantity * pizzas.price) AS revenue,
            RANK() OVER (PARTITION BY pizza_types.category
            ORDER BY SUM(order_details.quantity * pizzas.price) DESC) AS rnk
     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
WHERE rnk <= 3 -- Filter to get only the top 3 most ordered pizza types
```

ORDER BY category, rnk;

category	name	revenue	rnk
Chicken	The Thai Chicken Pizza	43434.25	1
Chicken	The Barbecue Chicken Pizza	42768	2
Chicken	The California Chicken Pizza	41409.5	3
Classic	The Classic Deluxe Pizza	38180.5	1
Classic	The Hawaiian Pizza	32273.25	2
Classic	The Pepperoni Pizza	30161.75	3
Supreme	The Spicy Italian Pizza	34831.25	1
Supreme	The Italian Supreme Pizza	33476.75	2
Supreme	The Sicilian Pizza	30940.5	3
Veggie	The Four Cheese Pizza	32265.70000000065	1
Veggie	The Mexicana Pizza	26780.75	2
Veggie	The Five Cheese Pizza	26066.5	3















