



By-Divyansh Kotnala

PIZZA ANALYSIS



- SQL PROJECT

[Home](#)[About](#)[Contact](#)

WELCOME

OVERVIEW

"In this project, SQL queries were utilized to extract and analyze data-driven answers to various business questions related to pizza sales."



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

Home

About

Contact

```
Select count(order_id) as orders_placed from orders;
```

Result Grid	
	orders_placed
▶	21350





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

[About](#)[Contact](#)

```
select round(sum(od.quantity * p.price),2) as total_revenue from order_details od join pizzas p on od.pizza_id=p.pizza_id;
```

Result Grid	
	total_revenue
▶	817860.05



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

[About](#)[Contact](#)

```
SELECT
    pt.name, ROUND(SUM(od.quantity * p.price), 0) AS revenue
FROM
    pizza_types pt
    JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY revenue DESC
LIMIT 3;
```

name	revenue
The Thai Chicken Pizza	43434
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41410

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

[About](#)[Contact](#)

```
SELECT  
    ROUND(AVG(quantity), 0)  
FROM  
    (SELECT  
        o.order_date, SUM(od.quantity) AS quantity  
    FROM  
        orders o  
    JOIN order_details od ON o.order_id = od.order_id  
    GROUP BY o.order_date) AS order_quantity;
```

avg_pizza_per_day

138

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

[Home](#)[About](#)[Contact](#)

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

category	no_of_pizzas
Chicken	6
Classic	8
Supreme	9
Veggie	9



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

[Home](#)[About](#)[Contact](#)

```
SELECT
    pt.category,
    ROUND(SUM(od.quantity * p.price) / (SELECT
                                            ROUND(SUM(od.quantity * p.price), 2) AS total_price
                                         FROM
                                             order_details od
                                         JOIN
                                             pizzas p ON od.pizza_id = p.pizza_id) * 100,
                                         2) AS revenue
FROM
    pizza_types pt
    JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.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.

[Home](#)[About](#)[Contact](#)

```
SELECT  
    order_date,  
    ROUND(SUM(revenue) OVER (ORDER BY order_date), 2) AS cum_rev  
FROM (  
    SELECT  
        o.order_date,  
        SUM(od.quantity * p.price) AS revenue  
    FROM  
        orders o  
        JOIN order_details od ON o.order_id = od.order_id  
        JOIN pizzas p ON od.pizza_id = p.pizza_id  
    GROUP BY  
        o.order_date  
) AS sales;
```

	order_date	cum_rev
▶	2015-01-01	2713.85
	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	23990.35
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.3
	2015-01-14	32358.7
	2015-01-15	34343.5
	2015-01-16	36937.65
	2015-01-17	39001.75
	2015-01-18	40978.6
	2015-01-19	43365.75
	2015-01-20	45763.65



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

[Home](#)[About](#)[Contact](#)

```
select name, category , revenue from
(select name, category,revenue ,rn
from
(select pt.category, pt.name, sum(od.quantity *p.price)as revenue,rank() over(partition by pt.category order by sum(od.quantity *p.price) desc) as rn
from pizza_types pt join pizzas p on
pt.pizza_type_id=p.pizza_type_id
join order_details od on
od.pizza_id=p.pizza_id
group by pt.category,pt.name) as a
)as b where rn<=3;
```

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





Home

About

Contact

THANK YOU