

PIZZA SALES ANALYSIS







PIZZA ANALYSIS BY USING STRUCTURED QUERY LANGUAGE(SQL)

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#Retrieve the total number of orders placed.

select count(order_id) as total_orders from orders;

















- -- This query retrieves the names of pizza types and their corresponding prices.
- -- JOIN operation link the tables and ensure the price matches the pizza type
- SELECT pizza_types.name, pizzas.price

The Barbecue Chicken Pizza

The Barbecue Chicken Pizza

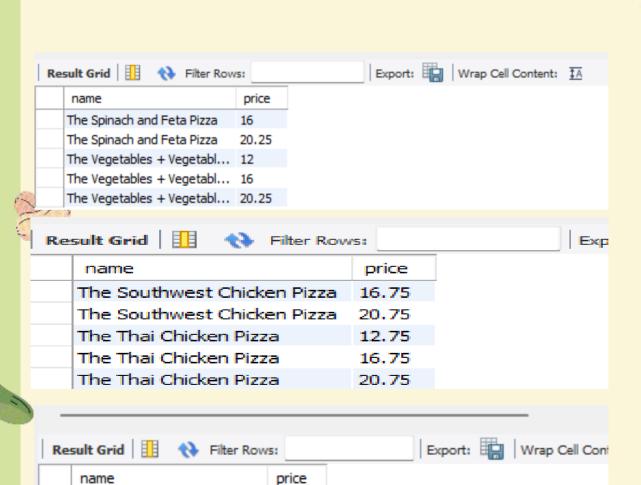
The Barbecue Chicken Pizza

The California Chicken Pizza

The California Chicken Pizza

FROM pizza types

JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id;



12.75

16.75

20.75

12.75

16.75









#Calculate the total revenue generated from pizza sales













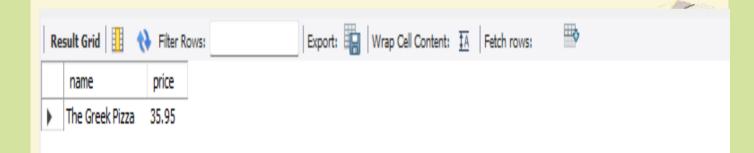






#Identify the highest-priced pizza.

select pizza_types.name,pizzas.price from pizza_types join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id
order by pizzas.price desc limit 1;



















#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;

Re	sult Gri	
	size	rder_count
•	L	1247
	M	1806
	S	0826
	XL	33
	XXL	2

















#List the top 5 most ordered pizza types along with their quantities.
SELECT pizzas.size, SUM(order_details.quantity) AS total_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 pizzas.size
ORDER BY total_quantity DESC
LIMIT 5;

Re	sult Grid	d 🔢 🙌 Filte	Rows:		Export:	Wrap (Cell Content:	<u>‡A</u>	Fetch rows:			
	size	total_quantity										
•	L	14573										l l
	M	11987										1
	S	11037										
	XL	437										
	XXL	22										

















#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)

₹e	sult Grid	ı <u>II</u> 🔞	> Filte
	hour	order_co	unt
	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	

Re	sult Grid	I 🔢 🙌 Fil	ter Rows:	Export:	Wrap Cell Content:	<u>‡A</u>
	hour	order_count				
	16	1920				
i i i	17	2336				
	18	2399				
	19	2009				
No.	20	1642				

Res	sult Grid	I │ 🔢 🙌 Fil	ter Rows:	Export:	Wrap Cell Content:	<u>‡A</u>
	hour	order_count				
	21	1198	-			
	22	663				
	23	28				
	10	8				
	9	1				













```
-- This query calculates the rounded average quantity of items ordered per day.

SELECT ROUND(AVG(total_quantity), 0) AS average_quantity

FROM (

SELECT SUM(order_details.quantity) AS total_quantity

FROM orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date

) AS order_quantity;
```

R	esult Grid 🔠 🙌	Filter Rows: Export: Wrap Cell Content: ‡A	7
	average_quantity		()
•	137	-	Car Cha

















-- This query retrieves the top 3 pizza types by revenue, calculated as the sum of quantity ordered multiplied by price.

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 przas ON przas.prza_type_id = prza_types.prza_type_id

JOIN order_details ON order_details.prza_id = przzas.przza_id

CROUD BY przas types page

GROUP BY pizza_types.name
ORDER BY revenue DESC

LIMIT 3;

Re	esult Grid 📗 🔥 Filter Ro	ws:	Export:	Wrap Cell Conten	: <u>‡A</u>	Fetch rows:	 	Zira
	name	revenue						
•	The Barbecue Chicken Pizza	33354.75						
	The Thai Chicken Pizza	32725.75						
	The California Chicken Pizza	31608.75						
	The California Chicken Pizza	31608.75						

















- 1 --- This query calculates the revenue for each pizza category, summing the total revenue based on quantity ordered and pizza price.
- 2 SELECT pizza_types.category,
- 3 ·····SUM(order_details.quantity.*.pizzas.price).AS.revenue
- 4 FROM pizza_types F
- 5 JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
- 6 JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
- 7 GROUP BY pizza_types.category
- 8 ORDER · BY · revenue · DESC;

9

l Pa	cult Guid	♦ Filter Rows:
Ke	Suit Grid B	H THILE KOWS:
	category	revenue
•	Classic	169636.65000000002
	Supreme	158982.99999999886
	Chicken	149814
	Veggie	149646.74999999956

















```
-- This query calculates the cumulative revenue over time, with the cumulative total increasing with each order date.
SELECT
   order_date,
   SUM(revenue) OVER (ORDER BY order_date) AS cum_revenue
   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
    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
         orders ON orders.order_id = order_details.order_id
    GROUP BY
         orders.order_date
) AS sales;
                                          Export: Wrap Cell Content: IA
 order_date cum_revenue
    2015-01-01 3147.1000000000004
    2015-01-02 6276.75
    2015-01-03
              9065.15
    2015-01-04 10820.6
    2015-01-05
              12886.55
                                                 Export: Wrap Cell Content: IA
 order_date
                cum_revenue
    2015-01-11
               26819.65
    2015-01-12 28738.7
    2015-01-13 30788.300000000003
    2015-01-14 33315.700000000004
    2015-01-15 35300.50000000001
```









The Mexicana Pizza

20272.75





```
-- This query retrieves the top 3 pizzas by revenue within each category.
SELECT
    name,
    revenue
FROM (
    SELECT
         category,
         name.
         revenue.
         RANK() OVER (PARTITION BY category ORDER BY revenue DESC) AS rn
    FROM (
         SELECT
       SELECT
           pizza_types.category,
           pizza_types.name,
          SUM(order_details.quantity * pizzas.price) AS revenue
           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,
17
                pizza_types
18
             JOIN
19
                pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
20
21
                order_details ON order_details.pizza_id = pizzas.pizza_id
            GROUP BY
22
23
                pizza_types.category,
24
                pizza_types.name
25
         ) AS a
      ) AS b
26
      WHERE rn <= 3;
27
28
                                                   Export: Wrap Cell Content: IA
revenue
   The Barbecue Chicken Pizza
                               33354.75
    The Thai Chicken Pizza
                               32725.75
    The California Chicken Pizza
                              31608.75
    The Classic Deluxe Pizza
                               29159.5
   The Hawaiian Pizza
                               24403.25
                                                         Export: Wrap Cell Content: IA
 Result Grid
                    Filter Rows:
     name
                                   revenue
                                  25858.5
     The Italian Supreme Pizza
     The Sicilian Pizza
                                  23188
     The Four Cheese Pizza
                                  24378.500000000041
     The Five Cheese Pizza
                                  20757
```



