SQL Project on pizza sales





Hello!

My name is Pravat Kumar Gupta. In this project I have utilised SQL queries to solve questions that were related to Pizza Sales





QUESTIONS:



BASIC

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.

INTERMEDIATE:

6. JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

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.

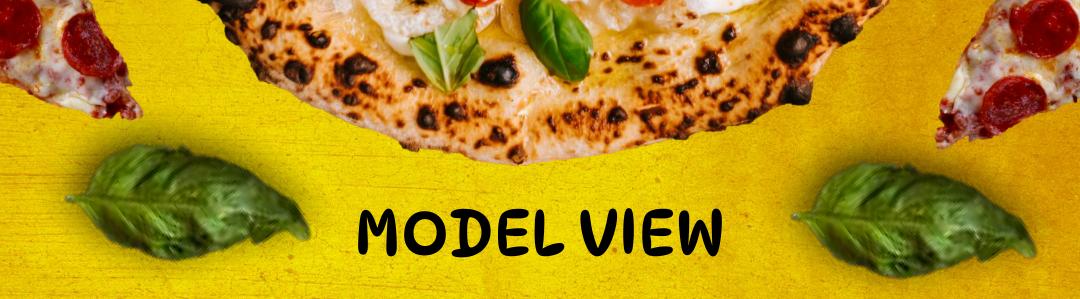
10. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

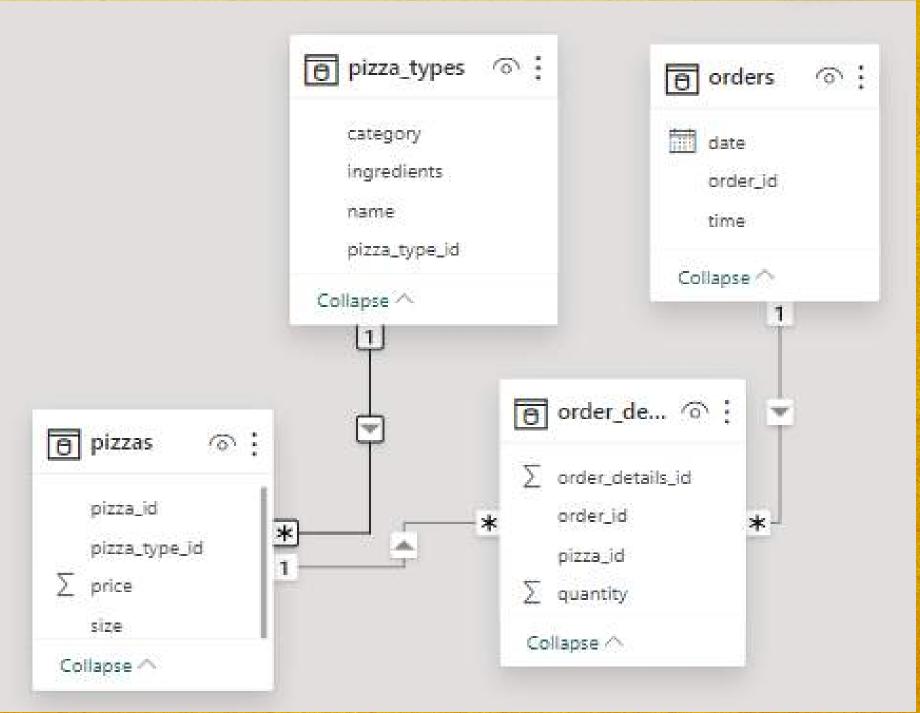
ADVANCED:

11. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

12. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

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







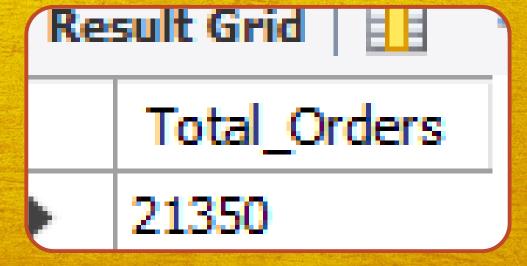
Q1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

SELECT

COUNT(order id) AS Total Orders

FROM

orders;



Q2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SELECT.

ROUND(SUM(orders_details.quantity * pizzas.price), 2) AS total revenue

FROM

orders details JOTN

pizzas ON pizzas.pizza_id = orders_details.pizza_id;

Result Grid



total revenue

817860.05



Q3. 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;
```

Re	sult Grid	Filter Rows
	name	price
Ł.	The Greek Pizza	35.95



Q4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

SELECT pizzas.size,

COUNT(orders_details.order_details_id) AS order_count

FROM pizzas

JOIN orders_details ON pizzas.pizza_id = orders_details.pizza_id

GROUP BY pizzas.size

ORDER BY order_count DESC;

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	size	order_count
•	L	18526
	М	15385
	S	14137
	XL	544
	XXL	28



SELECT pt.name, SUM(od.quantity) AS quantity

FROM pizza_types pt

JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id

JOIN orders_details od ON od.pizza_id = p.pizza_id

GROUP BY pt.name ORDER BY quantity DESC LIMIT 5;

Re	Result Grid 🔢 💎 Filter Rows:			
	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		



Q6. JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

SELECT pt.category, SUM(od.quantity) AS quantity

FROM pizza_types pt

JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id

JOIN orders_details od ON od.pizza_id = p.pizza_id

GROUP BY pt.category

ORDER BY quantity DESC;

Result Grid

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050



Q7. 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);
```

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	· —	**
hour	order_	_count
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	
10	8	
9	1	



Q8. JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

SELECT

Category, COUNT(name) AS Total_No

FROM

pizza_types

GROUP BY Category;

Result Grid 🔢 💎 Filt				
	Category	Total_No		
•	Chicken	6		
	Classic	8		
	Supreme	9		
	Veggie	9		



Q9. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT
```

ROUND(AVG(quantity), 0) AS Avg_quantity

FROM

(SELECT

o.order_date, SUM(od.quantity) AS quantity

FROM

orders o

JOIN orders_details od ON o.order_id = od.order_id

GROUP BY o.order_date) AS order_quantity;



Avg guantity

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Q10. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT
```

pt.name, SUM(od.quantity * p.price) AS revenue

FROM pizza_types pt

JOIN pizzas p ON p.pizza_type_id = pt.pizza_type_id

JOIN orders_details od ON od.pizza_id = p.pizza_id

GROUP BY pt.name

ORDER BY revenue DESC

LIMIT 3;

Result Grid				
	name	revenue		
	The Thai Chicken Pizza	43434.25		
	The Barbecue Chicken Pizza	42768		
	The California Chicken Pizza	41409.5		



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

Result Grid 🔠 🔧 🖹				
	category	revenue		
•	Classic	26.91		
	Supreme	25.46		
	Chicken	23.96		
	Veggie	23.68		



Q12. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

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

esult Grid	Filter Rows:
order_date	cumulative_revenue
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	23990.35000000000
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.30000000000
2015-01-14	32358.70000000000
2015-01-15	34343.50000000001
2015-01-16	36937.65000000001
2015-01-17	39001.75000000001
2015-01-18	40978.60000000000
2015-01-19	43365.750000000001



Q13. 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 rnk
  FROM
 (SELECT pt.category, pt.name, SUM((od.quantity) * p.price) AS revenue
  FROM pizza types pt JOIN pizzas p
  ON pt.pizza type id = p.pizza type id
    JOIN orders_details od ON od.pizza_id = p.pizza_id
    GROUP BY pt.category, pt.name) AS a) AS b
                                   Result Grid Result Grid Rows:
```

WHERE rnk <= 3;

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Dizza	32273 254



As this is my first project so got little excited working on this project. Based on the SQL analysis conducted on the pizza sales data, several key findings and insights have been revealed. These insights include identifying the best-selling pizza toppings, total revenue generated, peak sales hours, highest-priced pizza, popular pizza sizes, and customer spending patterns.

By doing so, Stackholders can make informed decisions and foster business growth within the competitive pizza industry.



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