

PIZZA SALES PROJECT

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INTRODUCTION

This project highlights my SQL expertise through a comprehensive analysis of a pizza sales dataset sourced from GitHub. I addressed various questions related to pizza sales, showcasing my capabilities in data analysis and business intelligence. This work demonstrates my proficiency in crafting effective SQL queries, performing table joins, and conducting insightful, data-driven analyses.



DATA

This shows that our data has 4 tables, shown in the form of square boxes.

In each table, there are multiple columns along with their datatype.

Table 1

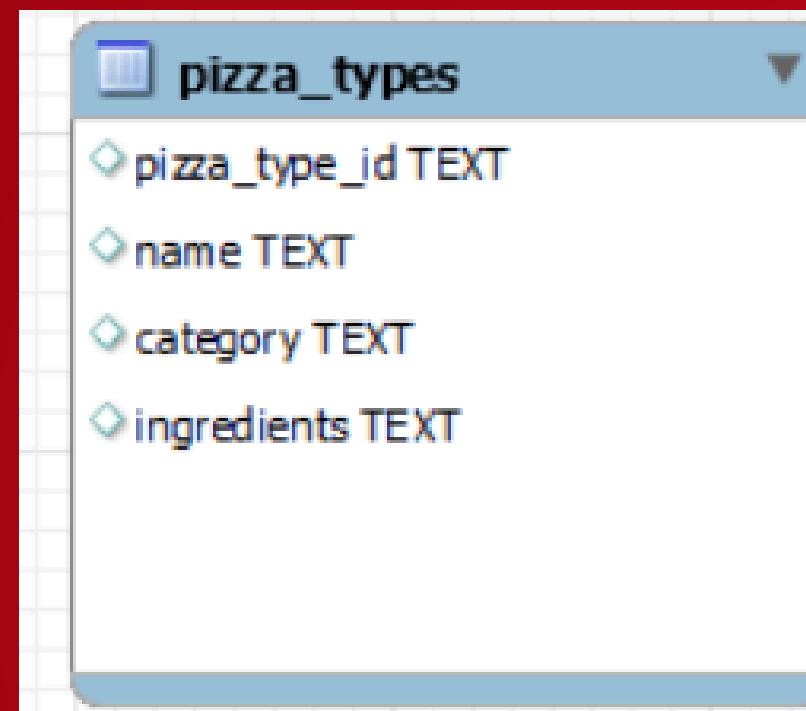


Table 2

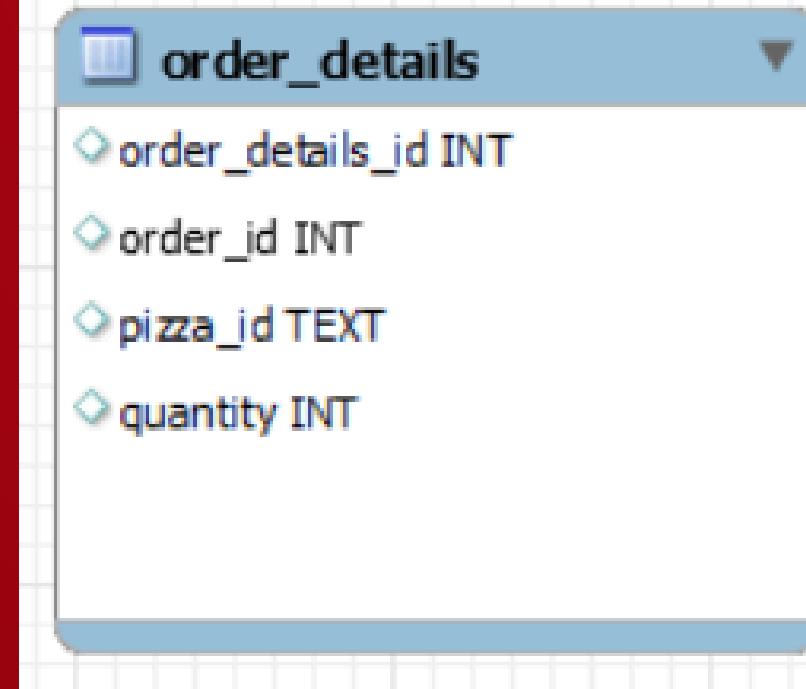


Table 3

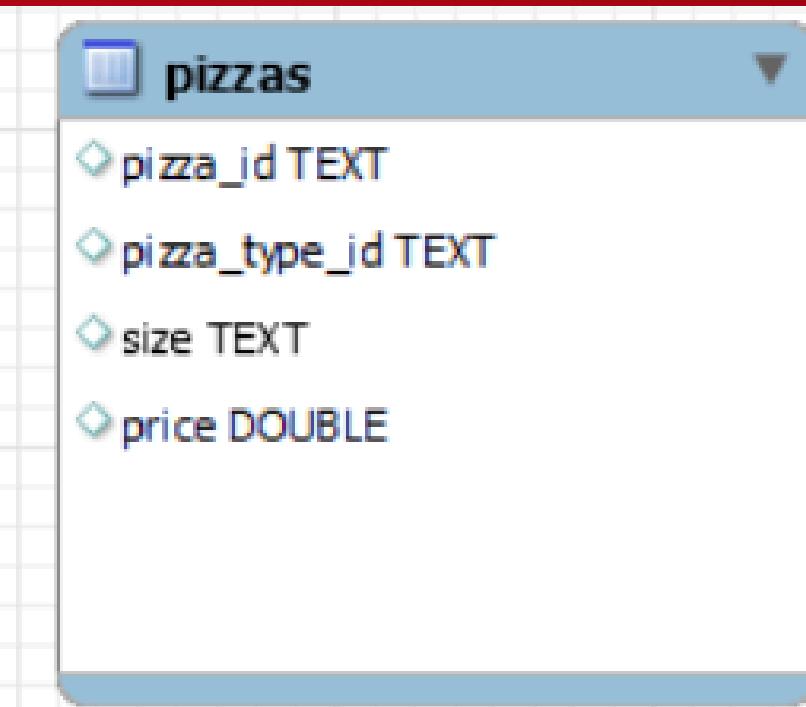
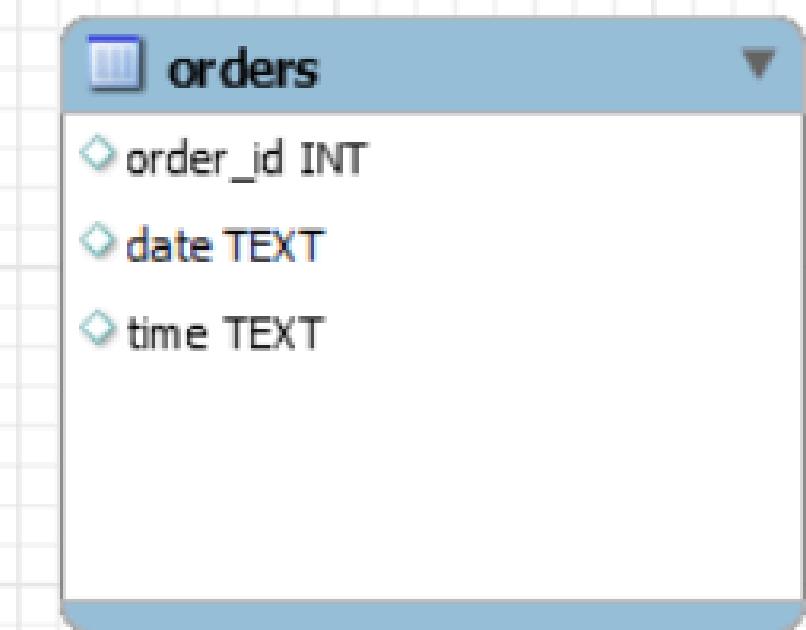


Table 4





QUESTIONS

- 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 ordered**
- 7) Determine the distribution of orders by hour of the day**
- 8) 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.**

QUESTION 1

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

SYNTAX

RESULT

Result Grid		Filter Rows:
	total_orders	
▶	21350	

QUESTION 2

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SELECT

```
ROUND(SUM(od.quantity * p.price), 2 ) AS total_revenue
```

FROM

```
order_details AS od
```

JOIN

```
pizzas AS p ON od.pizza_id = p.pizza_id;
```

SYNTAX

RESULT

	total_revenue
▶	817860.05

QUESTION 3

IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT pt.name ,p.price  
FROM pizzas AS p  
INNER JOIN pizza_types AS pt ON p.pizza_type_id = pt.pizza_type_id  
ORDER BY price DESC  
LIMIT 1;
```

SYNTAX

RESULT

	name	price
▶	The Greek Pizza	35.95

QUESTION 4

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT  
    p.size, COUNT(od.order_details_id) AS total_orders  
FROM  
    pizzas AS p  
    JOIN  
        order_details AS od ON p.pizza_id = od.pizza_id  
GROUP BY p.size  
ORDER BY total_orders DESC;
```

SYNTAX

RESULT

	size	total_orders
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

QUESTION 5

LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

```
SELECT pt.name, SUM(od.quantity) AS total_quantity
FROM pizza_types AS pt
    JOIN pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
    JOIN order_details AS od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY total_quantity DESC
LIMIT 5;
```

RESULT

SYNTAX

	name	total_quantity
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

QUESTION 6

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

```
SELECT  
    pt.category, SUM(od.quantity) AS total_quantity  
FROM  
    order_details AS od  
        JOIN  
    pizzas AS p ON od.pizza_id = p.pizza_id  
        JOIN  
    pizza_types AS pt ON p.pizza_type_id = pt.pizza_type_id  
GROUP BY pt.category  
ORDER BY total_quantity DESC;
```

RESULT

SYNTAX

	category	total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

QUESTION 7

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
select hour(time) as hour , count(order_id) as number_of_order  
from orders  
group by hour;
```

SYNTAX

RESULT

	hour	number_of_order
▶	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

QUESTION 8

FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
select category , count(name) as total  
from pizza_types  
group by category;
```

SYNTAX

RESULT

	category	total
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

QUESTION 9

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

SELECT

```
ROUND(AVG(numberoforders), 0) AS average_pizza_ordered
```

FROM

```
(SELECT
```

```
o.date, SUM(od.quantity) AS numberoforders
```

FROM

```
orders AS o
```

```
JOIN order_details AS od ON o.order_id = od.order_id
```

```
GROUP BY o.date) AS order_quantity;
```

SYNTAX

RESULT

	average_pizza_ordered
▶	138

QUESTION 10

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

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

SYNTAX

RESULT

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

THANK YOU!

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