

ABOUT ME

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I am currently pursuing 4th Year in B Tech in Chemical Science and Technology in Indian Institute of Technology, Guwahati, Assam, India. I am from Kangpokpi District, Manipur, India. I am deeply committed to data analytics, consistently leveraging data-driven insights to inform strategic decision-making and enhance organizational performance.

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ABOUT THE PROJECT

This project is a comprehensive study of pizza sales data collected from a pizzeria. I utilize MySQL to manage and analyze the dataset, uncovering key insights into sales trends, customer preferences, and overall operational efficiency. The findings aim to support informed decision-making and drive meaningful improvements in business performance.





RAW DATA

The data consist of four tables as listed below

Pizza types

- It consists of the types
 of the pizzas, their
 names and their
 ingredients
- Link to table:
 https://drive.google.co
 m/file/d/lwDSjojQltntf
 kcxnFUroPtO3pTQgfHD
 Z/view?usp=sharing

Pizzas

- It consists of the prices and sizes of each type of the pizzas
- Link to table:
 https://drive.google.co
 m/file/d/1VLZWi41aawn
 BnZYBCvNNeZG4RepRc
 4ZI/view?usp=sharing

Orders

- It consists of the time and dates of orders and their corresponding IDs
- Link to table:
 https://drive.google.co
 m/file/d/1Cx FHD1Rj88Ix11uizAT1WSTm
 N73sAsN/view?
 usp=drive_link

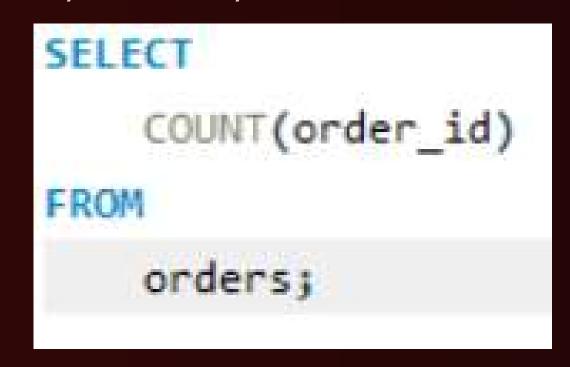
Order Details

- It consists of the types of pizza ordered and their quantities for each order ID.
- Link to table:
 https://drive.google.com/file/d/1z6pqZ23xxM_
 -305iFNwNj1C8S6AbnMn/view?
 usp=drive_link

RETRIEVE THE TOTAL NUMBER OF ADDRESS OF ACED



MySQL Query







CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

MySQL Query

```
SELECT

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

2)

FROM

order_details

INNER JOIN

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

	Total_Revenue
•	817860.05



IDENTIFY THE HIGHEST-PRICED PIZZA



MySQL Query

```
SELECT

pizza_types.name

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

WHERE

pizzas.price = (SELECT

MAX(pizzas.price)

FROM

pizzas);
```





IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

MySQL Query

```
SELECT
    pizzas.size, COUNT(pizzas.size)
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizzas.size
ORDER BY COUNT(pizzas.size) DESC
LIMIT 1;
```

size		COUNT(pizzas.size)	
>	L	18526	



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

MySQL Query

```
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 SUM(order_details.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



FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

MySQL Query

```
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;
```

category	Quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

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MySQL Query

```
SELECT

HOUR(time) AS Hour, COUNT(order_id) AS Quantity

FROM

orders

GROUP BY HOUR(time)

ORDER BY COUNT(order_id) DESC;
```

Hour	Quantity
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231
21	1198
22	663
23	28
10	8
9	1
75	



CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

MySQL Query

```
SELECT
    ROUND(AVG(quantity), 0) A5 Average_Order
FROM
    (SELECT
        b.date, SUM(a.quantity) AS quantity
    FROM
        order details AS a
    JOIN orders AS b ON a.order_id = b.order_id
    GROUP BY b.date) AS per_day_quantity;
```

Output

Average_Order 138



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

MySQL Query

```
SELECT
    SUM(a.quantity * b.price) AS Sale, c.name
FROM
    order_details AS a
        JOIN
    pizzas AS b ON a.pizza_id = b.pizza_id
        JOIN
    pizza_types AS c ON b.pizza_type_id = c.pizza_type_id
GROUP BY (c.name)
ORDER BY Sale DESC
LIMIT 3;
```

Sale	name
43434.25	The Thai Chicken Pizza
42768	The Barbecue Chicken Pizza
41409.5	The California Chicken Pizza

ANALYZE THE CUMULATIVE REVENUE GENERATEN OVER TIME

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MySQL Query

```
Select date, round(sum(revenue) over (order by date),2) as cum_revenue from (Select orders.date, sum(order_details.quantity*pizzas.price) as revenue from pizzas join order_details on pizzas.pizza_id=order_details.pizza_id join orders
on orders.order_id=order_details.order_id
group by orders.date) as revenue table;
```

	A	В
	date	cum_revenue
	2015-01-01	2713.85
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
6	2015-01-05	11929.55
	2015-01-06	14358.5
8	2015-01-07	16560.7
	2015-01-08	19399.05
10	2015-01-09	21526.4
11	2015-01-10	23990.35
12	2015-01-11	25862.65
13	2015-01-12	27781.7
14	2015-01-13	29831.3
15	2015-01-14	32358.7
16	2015-01-15	34343.5
17	2015-01-16	36937.65
18	2015-01-17	39001.75
19	2015-01-18	40978.6
20	2015-01-19	43365.75
21	2015-01-20	45763.65
22	2015-01-21	47804.2
23	2015-01-22	50300.9
24	2015-01-23	52724.6
25	2015-01-24	55013.85
26	2015-01-25	56631,4
27	2015-01-26	58515.8
28.	2015-01-27	61043.85
29.	2015-01-28	63059.85
30	2015-01-29	65105.15
31	2015-01-30	67375.45
32	2015-01-31	69793.3
33	2015-02-01	72982.5
34	2015-02-02	75311.1
35	2015-02-03	77925.9
36	2015-02-04	80159.8





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



MySQL Query

```
Select category, name, revenue from

(Select category, name, revenue, rank() over (partition by category order by revenue desc) as Rnk from

(Select pizza_types.name, pizza_types.category, round(sum(order_details.quantity*pizzas.price), 2) as revenue from

order_details join pizzas

on order_details.pizza_id=pizzas.pizza_id

Chicken The Thai Chicken Pizza 43434.25

Chicken The Barbeque Chicken Pizza 42768
```

join
pizza_types
on pizzas.pizza_type_id=pizza_types.pizza_type_id
group by pizza_types.name,pizza_types.category) as a) as b
where Rnk<=3;</pre>

category	Harric	1 C V CI IUC
Chicken	The Thai Chicken Pizza	43434.25
Chicken	The Barbecue Chicken Pizza	42768
Chicken	The California Chicken Pizza	41409.5
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25
Classic	The Pepperoni Pizza	30161.75
Supreme	The Spicy Italian Pizza	34831.25
Supreme	The Italian Supreme Pizza	33476.75
Supreme	The Sicilian Pizza	30940.5
Veggie	The Four Cheese Pizza	32265.7
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5



