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ANALYSIS OF PIZZA SALE DATA USING MYSQL



ABOUT PROJECT

Pizza Sale Data Analysis

This project focuses on analyzing pizza sales data using MySQL to uncover queries for data extraction and solve the questions of business shareholders that can improve decision-making for a pizza business. By leveraging a structured dataset, the analysis helps identify patterns in customer preferences, sales performance, and operational efficiency.

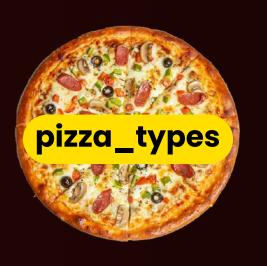




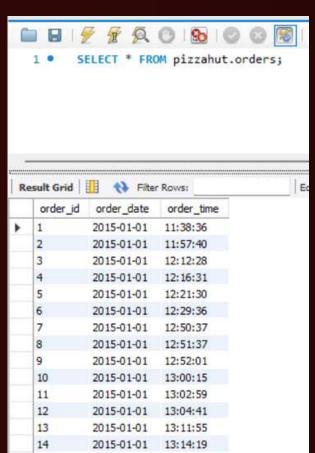
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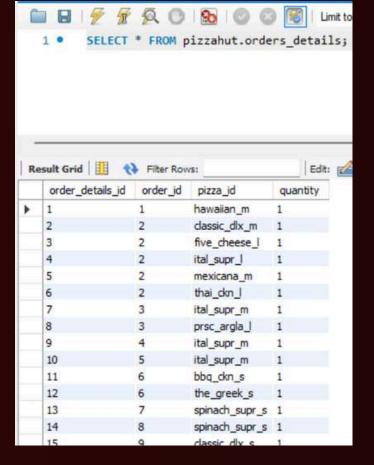


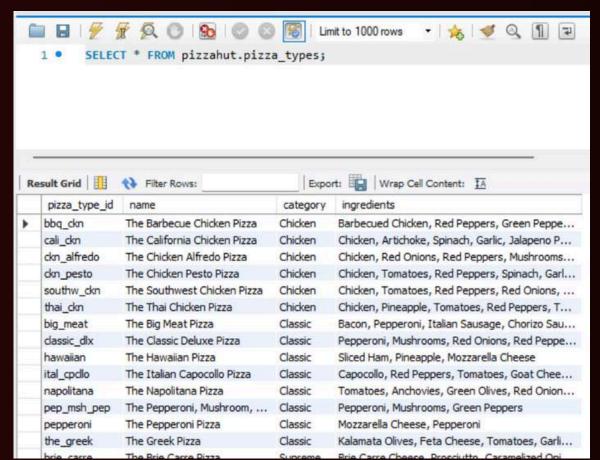


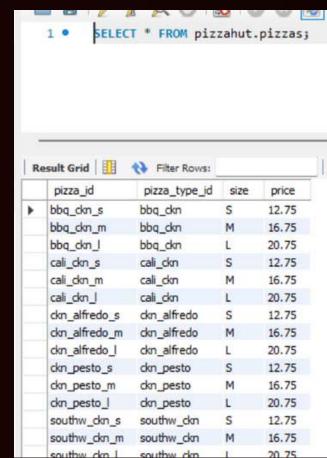
















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QUERY THAT WE COVERED HERE

Basic:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Identify the most common pizza size ordered.

List the top 5 most ordered pizza types along with their quantities.

Intermediate:

Join the necessary tables to find the total quantity of each pizza category ordered.

Determine the distribution of orders by hour of the day.

Join relevant tables to find the category-wise distribution of pizzas.

Group the orders by date and calculate the average number of pizzas ordered per day.

Determine the top 3 most ordered pizza types based on revenue.

Advanced:

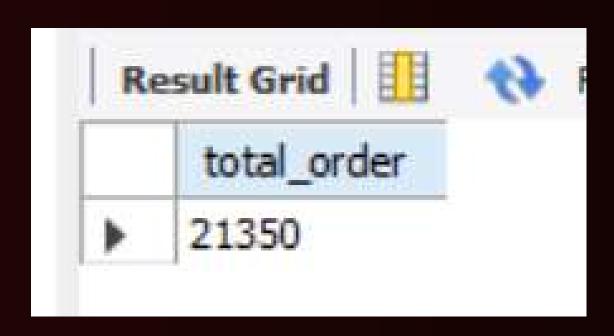
Calculate the percentage contribution of each pizza type to total revenue. Analyze the cumulative revenue generated over time.



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RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

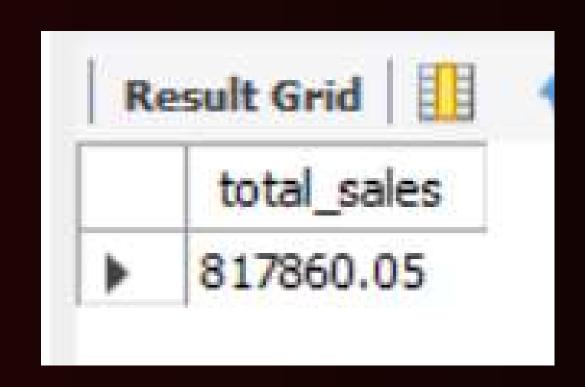
```
select count(order_id)
as total_order
from orders;
```







CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.









IDENTIFY THE HIGHEST-PRICED PIZZA.





Presented by

ANKAN CHATTOPADHYAY



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IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT

COUNT(orders_details.quantity) as order_count , pizzas.size

FROM

orders_details

JOIN

pizzas ON orders_details.pizza_id = pizzas.pizza_id

group by pizzas.size

order by order_count desc
```

| Re | esult Grid | ♦ FI |
|-------------|-------------|------|
| | order_count | size |
| > | 18526 | L |
| | 15385 | M |
| | 14137 | S |
| | 544 | XL |
| | 28 | XXL |







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

| | name | total_order |
|---|----------------------------|-------------|
| Þ | The Classic Deluxe Pizza | 2453 |
| | The Barbecue Chicken Pizza | 2432 |
| | The Hawaiian Pizza | 2422 |
| | The Pepperoni Pizza | 2418 |
| | The Thai Chicken Pizza | 2371 |





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

```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS total_order
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza_types.category;
```

| | category | total_order |
|---|----------|-------------|
| • | Classic | 14888 |
| | Veggie | 11649 |
| | Supreme | 11987 |
| | Chicken | 11050 |





DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT

HOUR(order_time) AS perhour, COUNT(order_id)

FROM

orders

GROUP BY perhour;
```

| | perhour | COUNT(order_id) |
|----------|---------|-----------------|
| • | 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 |







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

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

| | category | COUNT(pizza_types.name) |
|---|----------|-------------------------|
| • | Chicken | 6 |
| | Classic | 8 |
| | Supreme | 9 |
| | Veggie | 9 |





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

```
SELECT

ROUND(AVG(total_order), 0) as avarage_order

FROM

(SELECT

orders.order_date,

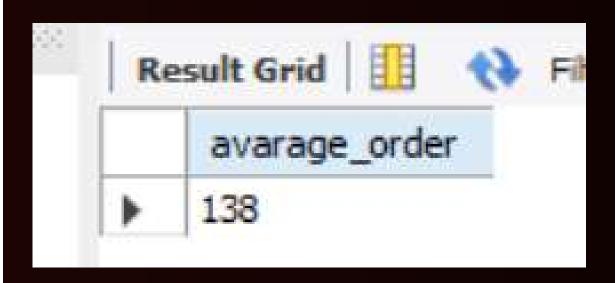
SUM(orders_details.quantity) AS total_order

FROM

orders

JOIN orders_details ON orders.order_id = orders_details.order_id

GROUP BY orders.order_date) AS order_per_day;
```









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

```
SELECT

pizza_types.name,

SUM(orders_details.quantity * pizzas.price) AS total_sales

FROM

orders_details

JOIN

pizzas ON pizzas.pizza_id = orders_details.pizza_id

JOIN

pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id

GROUP BY pizza_types.name

ORDER BY total_sales DESC

LIMIT 3;
```

| | name | total_sales |
|---|------------------------------|-------------|
| • | The Thai Chicken Pizza | 43434.25 |
| | The Barbecue Chicken Pizza | 42768 |
| | The California Chicken Pizza | 41409.5 |







Presented by **ANKAN CHATTOPADHYAY**

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

```
SELECT
    orders_details.pizza_id,
    ROUND((ROUND(SUM(orders_details.quantity * pizzas.price),
                    0) / (SELECT
                    ROUND(SUM(orders_details.quantity * pizzas.price),
                                2)
                FROM
                    orders_details
                        JOIN
                    pizzas ON pizzas.pizza_id = orders_details.pizza_id)) * 100,
            2) AS per_revenue
FROM
    orders_details
        JOIN
    pizzas ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY orders_details.pizza_id
ORDER BY per_revenue DESC ;
```

| | pizza_id | per_revenue |
|---|---------------|-------------|
| ١ | thai_ckn_l | 3.58 |
| | five_cheese_l | 3.19 |
| | four_cheese_l | 2.89 |
| | spicy_ital_l | 2.81 |
| | big_meat_s | 2.81 |
| | southw_ckn_l | 2.58 |
| | bbq_ckn_l | 2,52 |
| | cali_ckn_l | 2.35 |
| | classic_dlx_m | 2.31 |
| | mexicana_l | 2.15 |
| | bbq_ckn_m | 1.96 |
| | cali_ckn_m | 1.93 |
| | ital_supr_l | 1.9 |
| | ital_supr_m | 1.9 |
| | hausian I | 1.05 |

Presented by ANKAN CHATTOPADHYAY

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date , sum(sale_per_day) over(order by order_date) as cum_sale from
(SELECT
   ROUND(SUM(orders_details.quantity * pizzas.price),
           0) as sale_per_day,
   orders.order_date
FROM
   orders_details
        JOIN
   pizzas ON orders_details.pizza_id = pizzas.pizza_id
        JOIN
   orders ON orders.order_id = orders_details.order_id
GROUP BY orders.order_date) as sale ;
```

| | order_date | cum_sale |
|-------------|------------|----------|
| > | 2015-01-01 | 2714 |
| | 2015-01-02 | 5446 |
| | 2015-01-03 | 8108 |
| | 2015-01-04 | 9863 |
| | 2015-01-05 | 11929 |
| | 2015-01-06 | 14358 |
| | 2015-01-07 | 16560 |
| | 2015-01-08 | 19398 |
| | 2015-01-09 | 21525 |
| | 2015 01 10 | 22000 |







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