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Project Overview





Dataset Description:

The dataset contains detailed records of customer orders, pizza types, prices, and sales across multiple days. It includes tables such as:

- orders
- order_details
- pizzas
- pizza_types

Objective:

To extract valuable business insights from raw sales data using SQL queries. The analysis helps identify trends, performance, and improvement areas for the business

Problem Statements

- 1. Analyze the cumulative revenue generated over time.
- 2. Calculate the percentage contribution of each pizza type to total revenue.
- 3. Determine the top 3 most ordered pizza types based on revenue.
- 4. Group the orders by date and calculate the average number of pizzas ordered per day.
- 5. Join relevant tables to find the category-wise distribution of pizzas.
 - Determine the distribution of orders by hour of the day.
- 7. Join the necessary tables to find the total quantity of each pizza category ordered.
- 8. List the top 5 most ordered pizza types along with their quantities.
- 9. Identify the most common pizza size ordered.
- 10. Identify the highest-priced pizza.

6.

- 11. Calculate the total revenue generated from pizza sales.
- 12. Retrieve the total number of orders placed.







ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



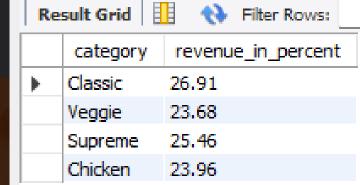


| Result Grid | | National Property of the Prope |
|-------------|------------|--|
| | order_date | cum_revenue |
| * | 2015-01-01 | 2713.8500000000004 |
| | 2015-01-02 | 5445.75 |
| | 2015-01-03 | 8108.15 |
| | 2015-01-04 | 9863.6 |
| | 2015-01-05 | 11929.55 |
| D | | |

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



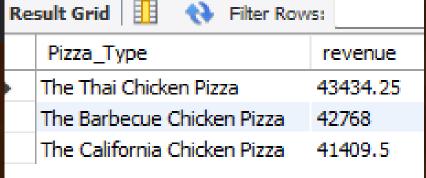
```
SELECT
          category,
          ROUND((SUM(quantity * price) / (SELECT
                          SUM(pizzas.price * order_details.quantity)
 6
                      FROM
                          pizzas
 8
                               JOIN
 9
                          order_details ON pizzas.pizza_id = order_details.pizza_id)) * 100,
10
                  2) AS revenue_in_percent
11
12
      FROM
13
          pizzas
14
              JOIN
          order_details ON pizzas.pizza_id = order_details.pizza_id
15
16
              JOIN
          pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
17
      GROUP BY category;
18
```



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



```
-- Determine the top 3 most ordered pizza types based on revenue.
      SELECT
          pizza_types.name Pizza_Type,
          SUM(pizzas.price * order_details.quantity) AS revenue
      FROM
          pizzas
 6
              JOIN
          order_details ON pizzas.pizza_id = order_details.pizza_id
              JOIN
          pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10
      GROUP BY Pizza_Type
11
      ORDER BY revenue DESC
12
13
      LIMIT 3;
                                                                         Result Grid
```



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





```
oldsymbol{1} -- Group the orders by date and calculate the average number of pizzas ordered per day.
```

```
2 * select round(avg(sum_quantity),0) as avg_qunatity_per_day from
```

4 **from** orders **join** order_details

6 group by order_date) order_quantity;

avg_qunatity_per_day



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



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

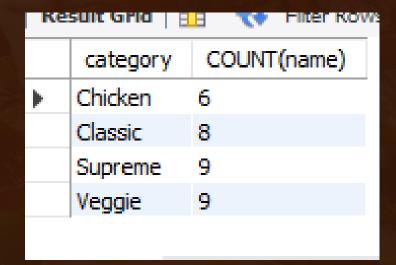
SELECT

category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.



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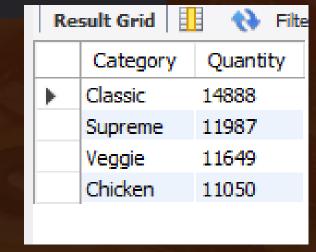
GROUP BY hour;

```
1 -- Determine the distribution of orders by hour of the day.
2 * SELECT
3    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
4    FROM
5    orders
```

| П. | Ke | sult Grid | TIII 💎 Filt | |
|----|----|-----------|-------------|--|
| | | hour | order_count | |
| | • | 11 | 1231 | |
| | | 12 | 2520 | |
| | | 13 | 2455 | |
| | | 14 | 1472 | |
| ١ | | 15 | 1468 | |
| | | 16 | 1920 | |
| | | 17 | 2336 | |
| | | 18 | 2399 | |
| 4 | | 19 | 2009 | |
| | | 20 | 1642 | |
| | | 21 | 1198 | |
| | | 22 | 663 | |
| 4 | | 23 | 28 | |
| | | 10 | 8 | |
| | | 9 | 1 | |

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





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



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

- 2 * select pizza_types.name, sum(order_details.quantity) as total_orders
- 3 from pizzas join pizza_types
- 4 on pizzas.pizza_type_id = pizza_types.pizza_type_id
- 5 join order_details
- 6 on order_details.pizza_id = pizzas.pizza_id
- 7 group by pizza_types.name
- 8 order by total_orders desc
- 9 limit 5

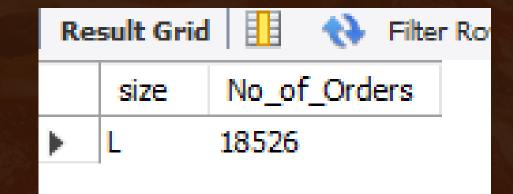
| Result Grid | | | | |
|-------------|----------------------------|--------------|--|--|
| | name | total_orders | | |
| • | The Classic Deluxe Pizza | 2453 | | |
| | The Barbecue Chicken Pizza | 2432 | | |
| | The Hawaiian Pizza | 2422 | | |
| | The Pepperoni Pizza | 2418 | | |
| | The Thai Chicken Pizza | 2371 | | |
| | | | | |

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.





```
1  -- Identify the most common pizza size ordered.
2 * select pizzas.size, count(order_details.order_details_id) as No_of_Orders
3  from pizzas join order_details
4  on pizzas.pizza_id = order_details.pizza_id
5  group by pizzas.size
6  order by No_of_Orders Desc
7  limit 1;
```



IDENTIFY THE HIGHEST-PRICED PIZZA.



```
1 -- Identify the highest-priced pizza
2 * select pizza_types.name, pizzas.price
```

3 from pizza_types join pizzas

4 on pizzas.pizza_type_id = pizza_types.pizza_type_id

5 order by pizzas.price desc

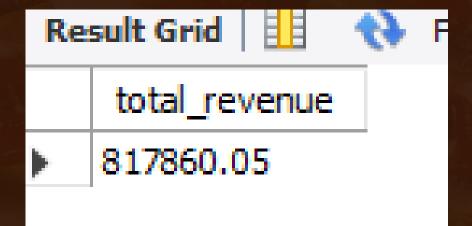
6 limit 1;

| Result Grid 🔠 💎 Filter Ro | | | | |
|---------------------------|-----------------|-------|--|--|
| | name | price | | |
| • | The Greek Pizza | 35.95 | | |
| | | | | |

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.





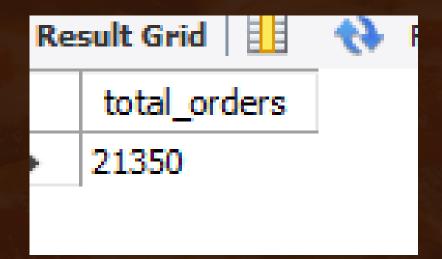


RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.





- 1 -- Retrieve the total number of orders placed.
- 2 * select count(*) as total_orders from orders;



THANKYOU

Project files :-

