MY-SQL PIZZA SALES ANALYSIS PROJECT

Sales - MySQL Analysis

Project Overview

- Objective:
- Analyze sales trends, percentage contribution and generate cumulative revenue.
- Datasets:
- -Pizza_Types
- Order_Details
- Orders
- Pizzas

Database Design



Schema Definition:



Pizza_Types: PizzaTypeID, Name, Category, Ingrediants



Order_Details: OrderDetailsID, OrderID, PizzaID Quantity,



Orders: OrderID, OrderDate, OrderTime



Pizzas: PizzaID, PizzaTypeID, Sales, Price



Relationships:



-Foreign keys link Orders to Order_ID and Order_Details.

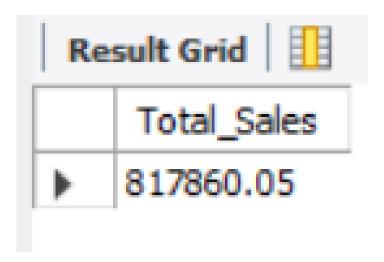
SQL QUERIES

1. Retrieve the total number of orders placed:

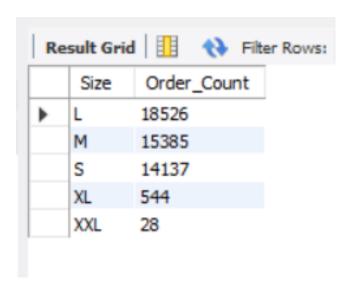
```
SELECT count(order_id) AS Total_Orders FROM orders;
```



2. Calculate the total revenue generated from pizza sales :



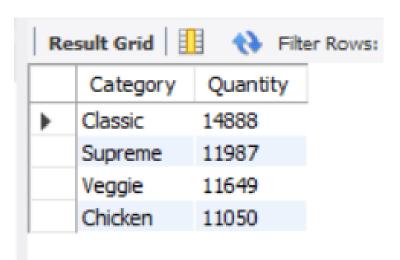
3. Identify the most common pizza size ordered:



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

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	

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



6. 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);
```

Re	Result Grid			
	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		

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

```
ROUND(AVG(quantity), 0) AS AVG_Pizzas_ordered_per_day

FROM

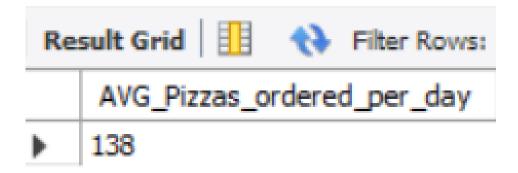
(SELECT

orders.order_date, SUM(order_details.quantity) AS Quantity

FROM orders

JOIN order_details ON orders.order_id = order_details.order_id

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



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

Result Grid		
	Name	Revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

9. Calculate the percentage contribution of each pizza type to total revenue :

```
SELECT pizza_types.Category,

ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT

ROUND(SUM(order_details.quantity * pizzas.price),2) AS Total_Sales

FROM order_details

JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,2) AS Revenue

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

ORDER BY Revenue DESC;
```

Re	Result Grid				
	Category	Revenue			
•	Classic	26.91			
	Supreme	25.46			
	Chicken	23.96			
	Veggie	23.68			

10. Analyze the cumulative revenue generated over time:

```
select Order_date,
sum(revenue) over(order by order_date) as Cum_Revenue
from
(select orders.order_date, sum(order_details.quantity * pizzas.price) as Revenue
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = order_details.order_id
group by orders.order_date) as Sales;
```

Result Grid 🔢 💎 Filter Rows:		
	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
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.50000000001

THANK YOU