

PIZZA SALES ANALYSIS USING SQL

Objective:

The goal of this project is to use SQL queries to analyze pizza sales data, uncover patterns, and generate reports that help in decision-making.

Dataset:

- Orders:
- Customers:
- Pizzas:
- OrderDetails:



Retrieve the total number of orders placed.

```
SELECT  
    COUNT(order_details.order_id) AS Total_Orders  
FROM  
    order_details;
```

Result Grid	
	Total_Orders
▶	21350

Calculate the total revenue generated from pizza sales.

```
SELECT  
    ROUND(SUM(order_details.quantity * pizzas.price),  
        2) AS Total_Revenue  
FROM  
    order_details  
    JOIN  
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

Result Grid	
	Total_Revenue
▶	817860.05

Identify the highest-priced pizza.

```
SELECT  
    pizza_types.name, pizza_types.category, pizzas.price  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
ORDER BY price DESC  
LIMIT 1;
```

Result Grid | Filter Rows:

	name	category	price
▶	The Greek Pizza	Classic	35.95

Identify the most common pizza size ordered.

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

Result Grid |

	size	order_count
▶	L	18526

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

```
SELECT
    pizza_types.name,
    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.name , pizza_types.category
ORDER BY Quantity DESC
LIMIT 5;
```

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

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

SELECT

```
    pizza_types.category Category,  
    SUM(order_details.quantity) AS Quantity  
FROM  
    order_details  
        JOIN  
        pizzas ON order_details.pizza_id = pizzas.pizza_id  
        JOIN  
        pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
GROUP BY Category  
ORDER BY quantity DESC;
```

Result Grid | Filter

	Category	Quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day.

```
use pizzahut;  
  
SELECT  
    HOUR(orders.order_time) AS Hour,  
    COUNT(orders.order_id) AS order_count  
FROM  
    orders
```

	Hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009

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

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

Result Grid | Filter

	category	Quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

```
SELECT  
    ROUND(AVG(Total_Qty), 0) AS AVG_Pizza_Ordered_Per_Day  
FROM  
(SELECT  
    orders.order_date, SUM(order_details.quantity) Total_Qty  
FROM  
    order_details  
JOIN orders ON order_details.order_id = orders.order_id  
GROUP BY order_date) AS Order_Quantity;
```

	Result Grid			Filter Rows:
	AVG_Pizza_Ordered_Per_Day			
▶	138			

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

```
SELECT  
    pizza_types.name Name,  
    pizza_types.category AS Category,  
    quantity,  
    SUM(order_details.quantity * pizzas.price) 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 Name , category , quantity  
ORDER BY Revenue DESC  
LIMIT 3;
```

	Name	Category	quantity	Revenue
▶	The Thai Chicken Pizza	Chicken	1	41251
	The Barbecue Chicken Pizza	Chicken	1	40669
	The California Chicken Pizza	Chicken	1	38965

THANK YOU

FOR ATTENTION FOR EXPLORING
THIS PROJECT !

