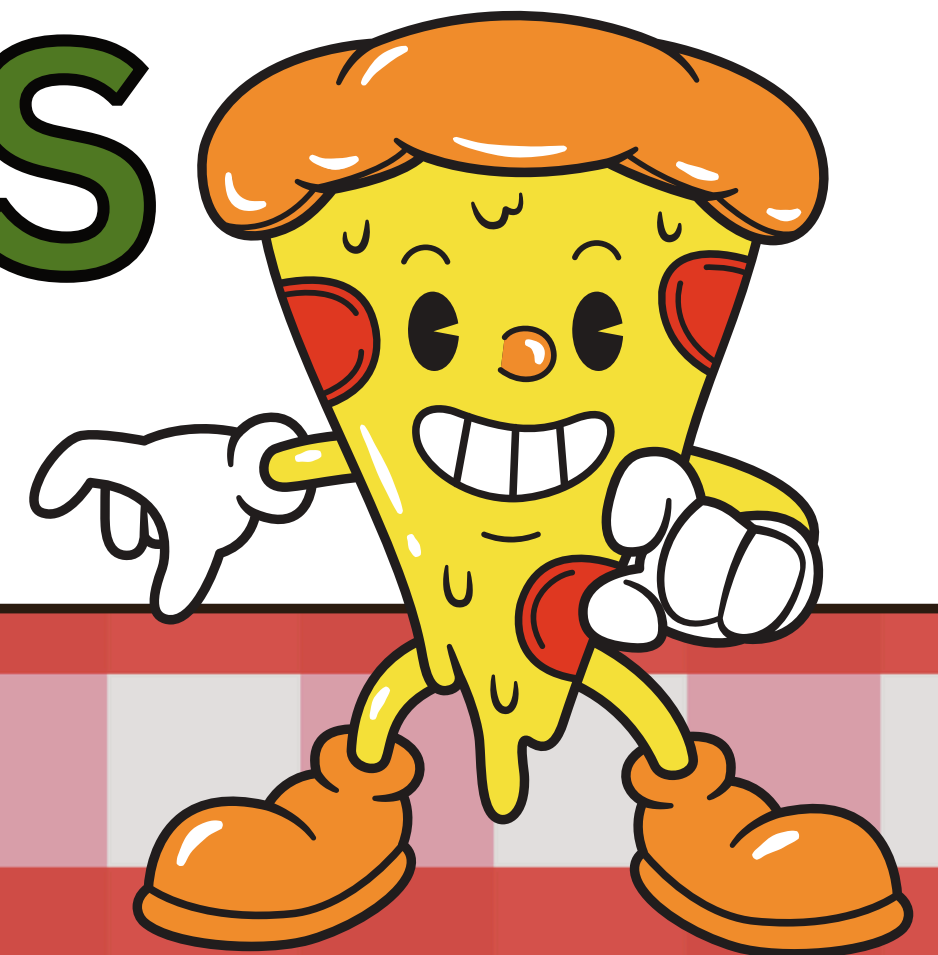


PIZZA SALES

DATA ANALYSIS




Retrieve the total number of orders placed.

```
SELECT  
    COUNT(Order_id) AS Total_orders  
FROM  
    orders;
```

	Total_orders
▶	21350

Calculate the total revenue generated from pizza sales.

■ **SELECT**


 ROUND(SUM((Order_details.Quantity * Pizzas.Price)),
2) Total_Sales

FROM

order_details

JOIN

pizzas **ON** Pizzas.Pizza_id = Order_details.Pizza_id;

	Total_Sales
	817860.05

Identify the highest-priced pizza.

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

|   | name            | Price |
|---|-----------------|-------|
| ▶ | The Greek Pizza | 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 order_details.Pizza_id = pizzas.pizza_id
GROUP BY pizzas.size
ORDER BY Order_count DESC;
```

	size	Order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

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

```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS Total_order
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 Total_order DESC
LIMIT 5;
```

name	Total_order
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(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
ORDER BY Quantity DESC;
```

category	Quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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;
```

Hour	Order_Count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1000

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

```
SELECT Category,  
COUNT(Name) FROM pizza_types  
GROUP BY category;
```

Category	COUNT(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(Quantity), 0) AS Avg_order_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
    ORDER BY Quantity) AS Order_quantity;
```


Avg_order_per_day
138

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

```
SELECT
    pizza_types.name,
    SUM(order_details.Quantity * pizzas.price) AS Total
FROM
    pizza_types
    JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
    order_details ON Order_details.Pizza_id = pizzas.Pizza_id
GROUP BY pizza_types.name
ORDER BY Total DESC
LIMIT 3;
```

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

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) 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 pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
    order_details ON Order_details.Pizza_id = pizzas.Pizza_id
GROUP BY pizza_types.category
ORDER BY Revenue DESC;
```

category	Revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Analyze the cumulative revenue generated over time.

```
SELECT order_date,  
ROUND(SUM(Revenue) OVER(order by order_date),2)  
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;
```

order_date	Cum_revenue
2015-01-01	2713.85
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14058.5

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

```
SELECT Name, Revenue FROM
(
  (SELECT Category, Name, Revenue,
    RANK() OVER(partition by category ORDER BY Revenue DESC) AS rn FROM
    (SELECT pizza_types.category, pizza_types.name,
      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 pizza_types.category, pizza_types.name) AS A) AS B
  WHERE RN <=3;
```

Name	Revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The

THANK YOU!

