## Pizza Sales SQL Queries: Extracting Key Performance Indicators

- 1. Find the total revenue of total pizza orders
- 2. Find the Average order value (per order) calculated by dividing the total revenue by the total number of orders
- 3. Find the total number of pizzas sold
- 4. Find the total number of orders ordered.
- 5. Find the Average number of pizzas ordered/sold per order, calculated by dividing the total number of pizzas sold by the total number of orders?
- 6. Find the What are the busiest Days & MONTHS & QUARTER and Times
- 7. Find the Percentage of Sales by each Pizza Category
- 8. Find the Percentage of Sales by each 'Pizza Size '
- 9. Find the Top 5 Best Sellers (pizza name)
- 10. Find the Lowest 5 Worst Sellers (pizza name) (bottom 5 pizzas sold)

### 1. Find the total revenue of total pizza orders

SELECT ROUND(SUM(total\_price),2) AS Total\_Revenue

FROM Pizza\_sales\_2023;

Total\_Revenue 1 817860.05

# 2. Find the Average order value (per order) calculated by dividing the total revenue by the total number of orders

**SELECT** 

ROUND(SUM(total\_price)/ COUNT(DISTINCT(order\_id)),2) AS Average\_order\_value\_per\_order

FROM Pizza\_sales\_2023;

Average\_order\_value\_per\_order

1 38.31

#### 3. Find the total number of pizzas sold

**SELECT** 

SUM(quantity) AS Total\_pizzas\_sold FROM Pizza\_sales\_2023;

	Total_pizzas_sold
1	49574

4. Find the total number of orders ordered.

**SELECT** 

COUNT(DISTINCT(order\_id)) AS Total\_orders

FROM Pizza\_sales\_2023;



5. Find the Average number of pizzas ordered/sold per order. calculated by dividing the total number of pizzas sold by the total number of orders?

--- This query gives the Integer output without decimal values

**SELECT** 

SUM(quantity) /COUNT(DISTINCT(order\_id)) AS pizzas\_sold\_per\_order FROM Pizza\_sales\_2023;

---- The CAST function is used to convert a value from one data type to another

**SELECT** 

CAST(SUM(quantity) AS DECIMAL(10,2)) /

CAST(COUNT(DISTINCT(order\_id)) AS DECIMAL(10,2))

FROM Pizza\_sales\_2023;

----- USE CAST() especially if you expect fractional averages

**SELECT** 

CAST(CAST(SUM(quantity) AS DECIMAL(10,2)) /
CAST(COUNT(DISTINCT(order\_id)) AS DECIMAL(10,2)) AS DECIMAL(10,2))

#### FROM Pizza\_sales\_2023;

1	pizzas_sold_per_order 2
1	(No column name) 2.3219672131147
1	(No column name)

# 6. Find the What are the busiest Days & MONTHS & QUARTER and Times

--DW for Day of the Week (e.g., 'Monday', 'Tuesday')

--MONTH for the Month Name (e.g., 'January',

'February')

--YEAR for the Year (e.g., '2023')

--DAY for the Day of the Month (e.g., '1', '15', '31')

--QUARTER for the Quarter (e.g., '1', '2', '3', '4')

#### -- DAILY TREND IN A WEEK OF PIZZA SALES

**SELECT** 

DATENAME(DW, order\_date) AS Order\_Day,

COUNT(DISTINCT order\_id) AS total\_orders

FROM Pizza\_sales\_2023

GROUP BY DATENAME(DW, order\_date)

ORDER BY COUNT(DISTINCT order\_id) DESC;

		_
	Order_Day	total_orders
1	Monday	3538
2	Sunday	3239
3	Tuesday	3158
4	Saturday	3024
5	Friday	2973
6	Thursday	2794
7	Wednesday	2624

#### -- MONTHLY TREND IN A WEEK OF PIZZA SALES

**SELECT** 

DATENAME(MONTH, order\_date) AS Order\_Month,

COUNT(DISTINCT order\_id) AS total\_orders

FROM Pizza\_sales\_2023

#### GROUP BY DATENAME (MONTH, order\_date)

## ORDER BY COUNT(DISTINCT order\_id) DESC;

Order_Month	total_orders
July	1935
May	1853
January	1845
August	1841
March	1840
April	1799
November	1792
June	1773
February	1685
December	1680
September	1661
October	1646
	July May January August March April November June February December September

# -- Quarterly TREND OF PIZZA SALES

#### **SELECT**

DATENAME(QUARTER, order\_date) AS Order\_QUARTER, COUNT(DISTINCT order\_id) AS total\_orders

FROM Pizza\_sales\_2023

GROUP BY DATENAME(QUARTER, order\_date)

ORDER BY COUNT(DISTINCT order\_id) DESC;

	Order_QUARTER	total_orders
1	3	5437
2	2	5425
3	1	5370
4	4	5118

#### -- HOURLY TREND OF PIZZA SALES

#### SELECT

DATEPART(HOUR, order\_time) AS Time\_of\_order\_placed,
COUNT(DISTINCT(order\_id)) AS total\_orders

FROM Pizza\_sales\_2023

GROUP BY DATEPART(HOUR, order\_time)

ORDER BY COUNT(DISTINCT(order\_id)) DESC;

	Time_of_order_placed	total_orde
1	12	2520
2	13	2455
3	18	2399
4	17	2336
5	19	2009
6	16	1920
7	20	1642
8	14	1472
9	15	1468
10	11	1231
11	21	1198
12	22	663
13	23	28
14	10	8
15	9	1

	Time_of_order_placed	total_orders
1	9	1
2	10	8
3	23	28
4	22	663
5	21	1198
6	11	1231
7	15	1468
8	14	1472
9	20	1642
10	16	1920
11	19	2009
12	17	2336
13	18	2399
14	13	2455
15	12	2520

#### 7. Find the Percentage of Sales by each Pizza Category

--- Query 1 produces values in terms of the 'percentage of total sales' that each pizza category contributes.

SELECT

pizza\_category,

ROUND(SUM(total\_price),2) AS total\_sales,

ROUND(SUM(total\_price)\*100/ (SELECT SUM(total\_price) FROM Pizza\_sales\_2023),2) AS sales\_percentage\_each\_category

FROM Pizza\_sales\_2023

GROUP BY pizza\_category

ORDER BY pizza\_category;

	pizza_category	total_sales	sales_percentage_each_category
1	Chicken	195919.5	23.96
2	Classic	220053.1	26.91
3	Supreme	208197	25.46
4	Veggie	193690.45	23.68

## ----Query 2 produces values in terms of 'average revenue per order' for each pizza category.

SELECT

pizza\_category,

 ${\tt ROUND(SUM(total\_price)/COUNT(DISTINCT\ order\_id),2)\ AS\ sales\_percentage\_each\_category}$ 

FROM Pizza\_sales\_2023

GROUP BY pizza\_category

#### ORDER BY pizza\_category;

	pizza_category	sales_percentage_each_category
1	Chicken	22.95
2	Classic	20.26
3	Supreme	22.92
4	Veggie	21.66

#### 8. Find the Percentage of Sales by each 'Pizza Size '

**SELECT** 

pizza\_size,

ROUND(SUM(total\_price),2) AS total\_sales,

ROUND(SUM(total\_price)\*100/ (SELECT SUM(total\_price) FROM Pizza\_sales\_2023),2) AS sales\_percentage\_by\_size

FROM Pizza\_sales\_2023

GROUP BY pizza\_size

ORDER BY sales\_percentage\_by\_size DESC;

	pizza_size		sales_percentage_by_size
1	L	375318.7	45.89
2	M	249382.25	30.49
3	S	178076.5	21.77
4	XL	14076	1.72
5	XXL	1006.6	0.12

## -- Finding the values for 1st quarter

**SELECT** 

pizza\_size,

ROUND(SUM(total\_price),2) AS total\_sales,

ROUND(SUM(total\_price)\*100/ (SELECT SUM(total\_price) FROM Pizza\_sales\_2023 WHERE DATEPART(quarter, order\_date) = 1),2) AS sales\_percentage\_by\_size

FROM Pizza\_sales\_2023

WHERE DATEPART(quarter, order\_date) = 1

GROUP BY pizza\_size

ORDER BY sales\_percentage\_by\_size DESC;

	pizza_size	total_sales	sales_percentage_by_size
1	L	95229.65	46.37
2	M	61159	29.78
3	S	45384.25	22.1
4	XL	3289.5	1.6
5	XXL	287.6	0.14

## 9. Find the Total number of Pizzas sold by Pizza Category

**SELECT** 

pizza\_category,

SUM(quantity) AS total\_pizzas\_sold

FROM Pizza\_sales\_2023

GROUP BY pizza\_category

ORDER BY total\_pizzas\_sold DESC;

	pizza_category	total_pizzas_sold
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050

# 9. Find the Top 5 Best Sellers (pizza name)

SELECT TOP 5

pizza\_name AS Best\_sellers,

SUM(quantity) AS total\_pizzas\_sold

FROM Pizza\_sales\_2023

GROUP BY pizza\_name

ORDER BY total\_pizzas\_sold DESC;

	Best_sellers	total_pizzas_sold
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371

# 10. Find the Lowest 5 Worst Sellers (pizza name) (bottom 5 pizzas sold)

SELECT TOP 5

pizza\_name AS Worst\_sellers,

SUM(quantity) AS total\_pizzas\_sold

FROM Pizza\_sales\_2023

GROUP BY pizza\_name

# ORDER BY total\_pizzas\_sold;

	Worst_sellers	total_pizzas_sold
1	The Brie Carre Pizza	490
2	The Mediterranean Pizza	934
3	The Calabrese Pizza	937
4	The Spinach Supreme Pizza	950
5	The Soppressata Pizza	961

We've successfully addressed 10 business/client inquiries using SQL Server. Next, we'll transition to Excel for data visualization and further analysis.