# DATA ANALYST PORTFOLIO PROJECT SQL + POWER BI **BY:- R Arvind**



### Project Overview

Through this project we need to analyze key indicators for our pizza sales data to gain our insights into our business performance. Specially, I calculated the following metrices:

- Total Revenue
- Average Order Value
- Total Pizzas sold
- Total Orders
- Average Pizzas Per Order, etc.

I would also like to visualize our pizza sales data to gain insights & understand key trends such as daily trend, monthly trend, yearly trend with the help of bar graphs and charts and DAX Expressions.



# PART-1 MYSQL SERVER

#### **IMPORTING THE DATA**





WRITING SQL QUERIES





**CREATION OF DATABASE** 

**CREATING REPORT** 

# PART-2 POWER BI

CONNECTING TO MYSQL SERVER





**CLEANING OF DATA** 

**DATA PROCESSING** 

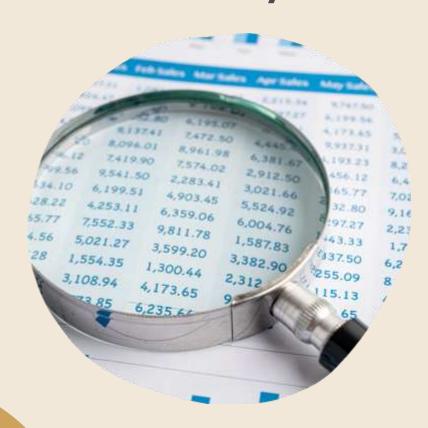




**DATA VISUALIZATION** 

### SOFTWARE USED

### MS OFFICE/EXCEL





MYSQL WORKBENCH 8.0

#### **POWER BI**



Selecting all records from the particular table i.e pizza\_sales

pizza_id	order_id	pizza_name_id	quantity	order_date	order_time	unit_price	total_price	pizza
1	1	hawaiian_m	1	01-01-2015	11:38:36	13.25	13.25	M
2	2	dassic_dlx_m	1	01-01-2015	11:57:40	16	16	M
3	2	five_cheese_l	1	01-01-2015	11:57:40	18.5	18.5	L
4	2	ital_supr_l	1	01-01-2015	11:57:40	20.75	20.75	L
5	2	mexicana_m	1	01-01-2015	11:57:40	16	16	M
6	2	thai_dkn_l	1	01-01-2015	11:57:40	20.75	20.75	L
7	3	ital_supr_m	1	01-01-2015	12:12:28	16.5	16.5	M
8	3	prsc_argla_l	1	01-01-2015	12:12:28	20.75	20.75	L
9	4	ital_supr_m	1	01-01-2015	12:16:31	16.5	16.5	M
10	5	ital_supr_m	1	01-01-2015	12:21:30	16.5	16.5	M
11	6	bbq_dkn_s	1	01-01-2015	12:29:36	12.75	12.75	S
12	6	the greek s	1	01-01-2015	12:29:36	12	12	S

SYNTAX:

use sales\_pizza;

SELECT \* FROM

pizza\_orders;

### QUERY-2 (KPI's)

Total Revenue- Sum of the total price of all orders

total\_revenue 817860.05

**SYNTAX:** 

SELECT SUM(total\_price) AS total\_revenue FROM pizza\_orders;

### QUERY-3 (KPI's)

Average Order value- The average amount spent per order, calculated by dividing the total revenue by total orders



#### **SYNTAX:**

SELECT (SUM(total\_price) / COUNT(DISTINCT order\_id)) AS avg\_order from pizza\_orders;

### QUERY-4 (KPI's)

Total Pizzas Sold- The sum of quantities of all pizzas sold

total\_pizza\_sold

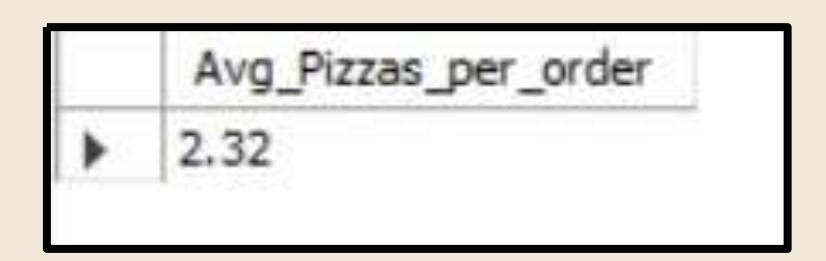
49574

#### **SYNTAX:**

SELECT SUM(quantity) AS Total\_pizza\_sold FROM pizza\_orders;

### QUERY-5 (KPI's)

Average Pizzas Per Order-Calculated by dividing the total Number of pizzas sold by total number of orders



#### **SYNTAX:**

SELECT ROUND(SUM(quantity) / COUNT(DISTINCT order\_id), 2) AS Avg\_Pizzas\_per\_order FROM pizza\_orders;

**Daily Trend for Total Orders** 

Results	Messages
order_day	total_orders
Friday	3538
Monday	2794
Saturday	3158
Sunday	2624
Thursday	3239
Tuesday	2973
Wednesday	3024
	050001100000000000000000000000000000000

SELECT DAYNAME(order\_date) AS order\_day, COUNT(DISTINCT order\_id) AS total\_orders FROM pizza\_orders GROUP BY dayname(order\_date);

### **Monthly Trend for Total Orders**

SELECT MONTHNAME(order\_date) AS
Month\_Name, COUNT(DISTINCT order\_id) AS
Total\_orders FROM pizza\_orders GROUP BY
Month\_Name;

	Month_Name	Total_Orders
1	February	1685
2	June	1773
3	August	1841
4	April	1799
5	May	1853
6	December	1680
7	January	1845
8	September	1661
9	October	1646
10	July	1935
11	November	1792
12	March	1840

% of Sales by Pizza Category

pizza_category	total_revenue	percent
Classic	220053.10	26.905960
Veggie	193690.45	23.682591
Supreme	208197.00	25.456311
Chicken	195919.50	23.955138

SELECT pizza\_category, SUM(total\_price) AS total\_revenue, (SUM(total\_price) / (SELECT SUM(total\_price) FROM pizza\_orders)) \* 100 AS percent FROM pizza\_orders GROUP BY pizza\_category;

% of Sales by Pizza Size

	pizza_size	total_revenue	percent
١	L	375318.70	45.890333
	M	249382.25	30.492044
	S	178076.50	21.773468
	XL	14076.00	1.721077
	XXL	1006.60	0.123077

SELECT pizza\_size, SUM(total\_price) AS total\_revenue, (SUM(total\_price) / (SELECT SUM(total\_price) FROM pizza\_orders)) \* 100 AS percent FROM pizza\_orders GROUP BY pizza\_size ORDER BY pizza\_size;

**Total Pizzas Sold by Pizza Category** 

	pizza_category	Total_Quantity_Sold	
-91		1	
1	Classic	14888	
2	Supreme	11987	
3	Veggie	11649	
4	Chicken	11050	

SELECT pizza\_category, SUM(quantity) AS total\_quantity\_sold FROM pizza\_orders GROUP BY pizza\_category;

Top 5 Pizzas by Revenue

	pizza pame	Total_Revenue
	pizza_name	1
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5
4	The Classic Deluxe Pizza	38180.5
5	The Spicy Italian Pizza	34831.25

SELECT pizza\_name, SUM(total\_price) AS Total\_Revenue FROM pizza\_orders GROUP BY pizza\_name ORDER BY Total\_Revenue DESC LIMIT 5;

Bottom 5 Pizzas by Revenue

pizza_name	Total_Revenue
The Brie Carre Pizza	11588.4998130798
The Green Garden Pizza	13955.75
The Spinach Supreme Pizza	15277.75
The Mediterranean Pizza	15360.5
The Spinach Pesto Pizza	15596

SELECT pizza\_name, SUM(total\_price) AS Total\_Revenue FROM pizza\_orders GROUP BY pizza\_name ORDER BY Total\_Revenue LIMIT 5;

### INSIGHTS

### PART-2 (INSIGHTS)



### **INSIGHTS**

### PART-2 (INSIGHTS)

