

## POWER BI PROJECT – PIZZA SALES DASHBOARD

### A. KPI Requirements :

#### 1. Total Revenue :

```
SELECT SUM(total_price) AS Total_Revenue FROM pizza_sales;
```

Results		Messages	
		Total Revenue	
1		817860.05083847	

#### 2. Average Order Value :

```
SELECT SUM(total_price) / COUNT(DISTINCT(order_id)) AS "Avg_order_value" FROM  
pizza_sales;
```

Results		Messages	
		Avg_order_value	
1		38.3072623343546	

#### 3. Total Pizzas Sold :

```
SELECT SUM(quantity) AS "Total_Pizzas_Sold" FROM pizza_sales;
```

Results		Messages	
		Total_Pizzas_Sold	
1		49574	

#### 4. Total Orders :

```
SELECT COUNT(DISTINCT(order_id)) AS "Total_Pizzas_Sold" FROM pizza_sales;
```

Results		Messages	
		Total_Pizzas_Sold	
1		21350	

#### 5. Average Pizzas Per Order :

```
SELECT CAST( CAST(SUM(quantity) AS DECIMAL(10,2)) /  
CAST(COUNT(DISTINCT(order_id)) AS DECIMAL(10,2)) AS DECIMAL(10,2)) AS  
"Avg_Pizza_Per_Order" FROM pizza_sales;
```

Results		Messages	
		Avg_Pizza_Per_Order	
1		2.32	

## B. Chart Requirement :

### 1. Daily Trend for Total Orders :

```
SELECT      DATENAME(DW, order_date) AS "order_day",  
COUNT(DISTINCT(order_id)) AS total_orders  
FROM pizza_sales  
GROUP BY DATENAME(DW, order_date);
```

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

### 2. Monthly Trends for Total Orders :

```
SELECT      DATENAME(MONTH, order_date) AS "Month_Name",  
COUNT(DISTINCT(order_id)) AS Total_Orders  
FROM pizza_sales  
GROUP BY DATENAME(MONTH, order_date);
```

	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

### 3. % of Sales by Pizza Category :

```
SELECT      pizza_category, CAST(SUM(total_price) AS DECIMAL(10,2)) AS
Total_Revenue,SUM(total_price) * 100 / (SELECT SUM(total_price) FROM
pizza_sales) AS PCRT
FROM pizza_sales
GROUP BY pizza_category;
```

	pizza_category	Total_Revenue	PCRT
1	Classic	220053.10	26.9059602306976
2	Chicken	195919.50	23.9551375322885
3	Veggie	193690.45	23.6825910258677
4	Supreme	208197.00	25.4563112111462

### 4. % of Sales by Pizza Size :

```
SELECT      pizza_size, CAST(SUM(total_price) AS DECIMAL(10,2)) AS
Total_Revenue,CAST(SUM(total_price) * 100 / (SELECT SUM(total_price)
FROM pizza_sales)
AS DECIMAL(10,2)) AS PCRT
FROM pizza_sales
GROUP BY pizza_size
ORDER BY pizza_size;
```

	pizza_size	Total_Revenue	PCRT
1	L	375318.70	45.89
2	M	249382.25	30.49
3	S	178076.50	21.77
4	XL	14076.00	1.72
5	XXL	1006.60	0.12

### 5. Top 5 pizzas by revenue :

```
SELECT TOP 5 pizza_name, SUM(total_price) AS Total_Revenue FROM  
pizza_sales  
GROUP BY pizza_name  
ORDER BY Total_Revenue DESC;
```

	pizza_name	Total_Revenue
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

### 6. Bottom 5 pizzas by revenue :

```
SELECT TOP 5 pizza_name, SUM(total_price) AS Total_Revenue FROM  
pizza_sales  
GROUP BY pizza_name  
ORDER BY Total_Revenue;
```

	pizza_name	Total_Revenue
1	The Brie Carre Pizza	11588.4998130798
2	The Green Garden Pizza	13955.75
3	The Spinach Supreme Pizza	15277.75
4	The Mediterranean Pizza	15360.5
5	The Spinach Pesto Pizza	15596

### 7. Top 5 pizzas by quantity :

```
SELECT TOP 5 pizza_name, SUM(quantity) AS Total_Quantity FROM  
pizza_sales  
GROUP BY pizza_name ORDER BY Total_Quantity DESC;
```

	pizza_name	Total_Quantity
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

### 8. Bottom 5 pizzas by quantity :

```
SELECT TOP 5 pizza_name, SUM(quantity) AS Total_Quantity FROM  
pizza_sales  
GROUP BY pizza_name  
ORDER BY Total_Quantity;
```

Results Messages		
	pizza_name	Total_Quantity
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

### 9. Top 5 pizzas by orders :

```
SELECT TOP 5 pizza_name, COUNT(DISTINCT order_id) AS Total_Orders FROM  
pizza_sales  
GROUP BY pizza_name  
ORDER BY Total_Orders DESC;
```

Results Messages		
	pizza_name	Total_Orders
1	The Classic Deluxe Pizza	2329
2	The Hawaiian Pizza	2280
3	The Pepperoni Pizza	2278
4	The Barbecue Chicken Pizza	2273
5	The Thai Chicken Pizza	2225

### 10. Bottom 5 pizzas by orders :

```
SELECT TOP 5 pizza_name, COUNT(DISTINCT order_id) AS Total_Orders FROM  
pizza_sales  
GROUP BY pizza_name  
ORDER BY Total_Orders;
```

Results Messages		
	pizza_name	Total_Orders
1	The Brie Carre Pizza	480
2	The Mediterranean Pizza	912
3	The Spinach Supreme Pizza	918
4	The Calabrese Pizza	918
5	The Chicken Pesto Pizza	938