**PIZZA SQL QUERIES**

**A.KPI**

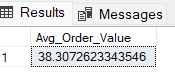
**1. Total Revenue**

SELECT SUM(total\_price) FROM pizza\_sales



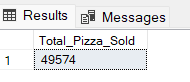
**2. Average Order Value**

SELECT SUM(total\_price) / COUNT(DISTINCT order\_id) AS Avg\_Order\_Value from pizza\_sales

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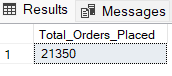
**3. Total Pizza Sold**

SELECT SUM(quantity) AS Total\_Pizza\_Sold from pizza\_sales

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**4. Total Orders Placed**

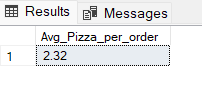
SELECT COUNT(DISTINCT order\_id) AS Total\_Orders\_Placed from pizza\_sales

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**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



**B.CHARTS REQUIREMENT**

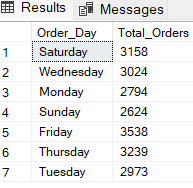
**1. Daily Trend for Total Orders**

We will have to find the daily trend on the daily basis which includes the days of the week (Mon – Sun).

DW is Day of the week. Always group by when using Aggregate Function.

SELECT DATENAME(DW, order\_date) AS Order\_Day, COUNT(DISTINCT order\_id) AS Total\_Orders From pizza\_sales

GROUP BY DATENAME(DW, order\_date)



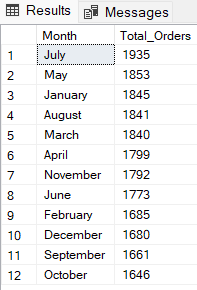
**2. Monthly Trend for Total Orders**

If you want to view the orders list in Descending order, use ORDER BY Function

SELECT DATENAME(MONTH, order\_date) AS Month, COUNT(DISTINCT order\_id) AS Total\_Orders FROM pizza\_sales

GROUP BY DATENAME(MONTH, order\_date)

ORDER BY Total\_Orders DESC

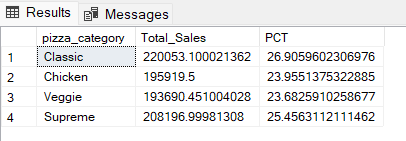


**3. Percentage of Sales by Pizza Category**

SELECT pizza\_category, SUM(total\_price) AS Total\_Sales, SUM(total\_price) \* 100 / (SELECT SUM(total\_price) FROM pizza\_sales) AS PCT

FROM pizza\_sales

GROUP BY pizza\_category



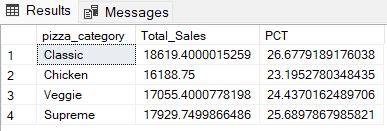
If wanted to use Filter, where want to view the percentage of month of January, use WHERE Clause.

SELECT pizza\_category, SUM(total\_price) AS Total\_Sales, SUM(total\_price) \* 100 / (SELECT SUM(total\_price) FROM pizza\_sales WHERE MONTH(order\_date) = 1) AS PCT

FROM pizza\_sales

WHERE MONTH(order\_date) = 1

GROUP BY pizza\_category



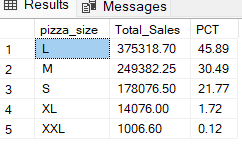
**4. Percentage of Sales by Pizza Size**

SELECT pizza\_size, CAST(SUM(total\_price) AS DECIMAL (10,2)) AS Total\_Sales, CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) FROM pizza\_sales) AS DECIMAL (10,2)) AS PCT

FROM pizza\_sales

GROUP BY pizza\_size

ORDER BY PCT DESC



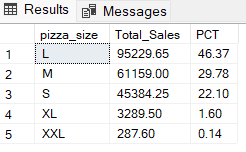
SELECT pizza\_size, CAST(SUM(total\_price) AS DECIMAL (10,2)) AS Total\_Sales, CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) FROM pizza\_sales WHERE DATEPART(QUARTER, order\_date) =1) AS DECIMAL (10,2)) AS PCT

FROM pizza\_sales

WHERE DATEPART(QUARTER, order\_date) = 1

GROUP BY pizza\_size

ORDER BY PCT DESC



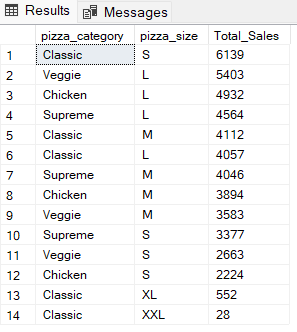
Always use the WHERE Clause before GROUP BY and After the FROM Function.

**5. Total Pizza Sold by Pizza Category & Size**

SELECT pizza\_category, pizza\_size, SUM(quantity) AS Total\_Sales FROM pizza\_sales

GROUP BY pizza\_category, pizza\_size

ORDER BY Total\_Sales DESC

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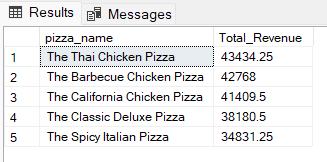
**6. Top 5 Pizza by Revenue**

SELECT TOP 5 pizza\_name, SUM(total\_price) AS Total\_Revenue FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Revenue DESC

Always add GROUP BY function when using Aggregation for Categorical Variables.

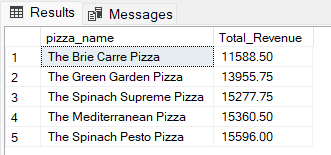
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**7. Bottom 5 Pizza by Revenue**

SELECT TOP 5 pizza\_name, CAST (SUM(total\_price) AS DECIMAL (10,2))AS Total\_Revenue FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Revenue ASC

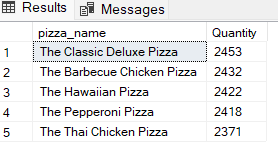
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**8. Top 5 Pizzas by Quantity**

SELECT TOP 5 pizza\_name, SUM(quantity) AS Quantity FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Quantity DESC

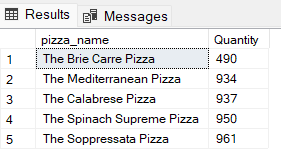
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**9. Bottom 5 Pizzas by Quantity**

SELECT TOP 5 pizza\_name, SUM(quantity) AS Quantity FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Quantity ASC

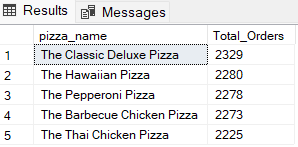


**10. Top 5 Pizzas by Orders**

SELECT TOP 5 pizza\_name, COUNT(DISTINCT order\_id) AS Total\_Orders FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Orders DESC

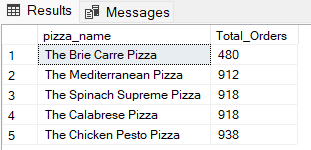


**11. Bottom 5 Pizzas by Orders**

SELECT TOP 5 pizza\_name, COUNT(DISTINCT order\_id) AS Total\_Orders FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Orders ASC

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