

# SQL Queries

## 1. KPI's

-- Total Sales of Pizza

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

	Total_Sales
▶	817860.0508384705

-- Average Order value

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

	Avg_order_value
▶	38.30726233435459

-- Total Pizza's sold

```
SELECT sum(quantity) AS Total_pizza_sold FROM pizza_sales;
```

	Total_pizza_sold
▶	49574

-- Total Quantity Sold

```
SELECT COUNT( DISTINCT order_id) AS Total_Quantity_sold FROM pizza_sales;
```

	Total_Quantity_sold
▶	21350

-- Average Pizzas per order

```
SELECT round(sum(quantity)/COUNT( DISTINCT order_id),2) AS Avg_pizzas_per_order FROM pizza_sales;
```

	Avg_pizzas_per_order
▶	2.32

## 2. Chart Requirements

-- Hourly Trend For Total Pizzas Sold

```
SELECT DATE_FORMAT(order_time, '%H') AS Order_Hour, SUM(quantity) AS
Total_pizzas_sold
```

```
FROM pizza_sales
```

```
GROUP BY DATE_FORMAT(order_time, '%H')
```

```
ORDER BY DATE_FORMAT(order_time, '%H');
```

	Order_Hour	Total_pizzas_sold
▶	09	4
	10	18
	11	2728
	12	6776
	13	6413
	14	3613
	15	3216
	16	4239
	17	5211
	18	5417
	19	4406
	20	3534
	21	2545
	22	1386
	23	68

-- Weekly Trend for the Total Orders

```
SELECT week(order_date,3) AS Week_Number,year(order_date) AS Year ,COUNT( DISTINCT
order_id) AS Total_Orders
```

```
FROM pizza_sales
```

```
GROUP BY Week_Number,Year
```

```
ORDER BY Week_Number,Year;
```

	Week_Number	Year	Total_Orders		Week_Number	Year	Total_Orders
▶	1	2015	254		18	2015	423
	2	2015	427		19	2015	399
	3	2015	400		20	2015	458
	4	2015	415		21	2015	414
	5	2015	436		22	2015	390
	6	2015	422		23	2015	423
	7	2015	423		24	2015	418
	8	2015	393		25	2015	410
	9	2015	409		26	2015	416
	10	2015	420		27	2015	474
	11	2015	404		28	2015	417
	12	2015	416		29	2015	420
	13	2015	427		30	2015	433
	14	2015	433		31	2015	419
	15	2015	408		32	2015	426
	16	2015	414		33	2015	435
	17	2015	437		34	2015	407

	Week_Number	Year	Total_Orders
	35	2015	394
	36	2015	397
	37	2015	435
	38	2015	423
	39	2015	288
	40	2015	433
	41	2015	334
	42	2015	386
	43	2015	352
	44	2015	371
	45	2015	394
	46	2015	400
	47	2015	392
	48	2015	491
	49	2015	424
	50	2015	417
	51	2015	430
	52	2015	298
	53	2015	171

-- % of Sales By Category

```
SELECT pizza_category,sum(total_price) AS Total_sales_by_Category,
sum(total_price) * 100 / (SELECT sum(total_price) FROM pizza_sales) AS Percent_Of_Total
FROM pizza_sales
GROUP BY pizza_category;
```

	pizza_category	Total_sales_by_Category	Percent_Of_Total
▶	Classic	220053.1000213623	26.905960230697634
	Veggie	193690.45100402832	23.682591025867666
	Supreme	208196.99981307983	25.456311211146232
	Chicken	195919.5	23.95513753228847

### With Filter

```
SELECT pizza_category,sum(total_price) AS Total_sales_by_Category,
sum(total_price) * 100 / (SELECT sum(total_price) FROM pizza_sales WHERE
month(order_date) = 1) AS Percent_Of_Total
FROM pizza_sales
WHERE month(order_date) = 1
GROUP BY pizza_category;
```

\*\*\* WHERE month(order\_date) = 1 to get the % for a particular month 1 indicates Jan

	pizza_category	Total_sales_by_Category	Percent_Of_Total
▶	Classic	18619.40000152588	26.677918917603815
	Veggie	17055.400077819824	24.437016248970597
	Supreme	17929.74998664856	25.689786798582062
	Chicken	16188.75	23.195278034843525

-- % of Sales By Size

```
SELECT pizza_size, cast(sum(total_price) AS DECIMAL(10,2)) AS Total_sales_by_size,
round(sum(total_price) * 100 / (SELECT sum(total_price) FROM pizza_sales),2) AS
Percent_Of_Total
FROM pizza_sales
GROUP BY pizza_size
ORDER BY Percent_Of_Total DESC;
```

	pizza_size	Total_sales_by_size	Percent_Of_Total
▶	L	375318.70	45.89
	M	249382.25	30.49
	S	178076.50	21.77
	XL	14076.00	1.72
	XXL	1006.60	0.12

-- % of Sales By Size Quarter

```
SELECT pizza_size, cast(sum(total_price) AS DECIMAL(10,2)) AS Total_sales_by_size,
round(sum(total_price) * 100 / (SELECT sum(total_price) FROM pizza_sales WHERE
quarter(order_date) = 1),2) AS Percent_Of_Total
FROM pizza_sales
WHERE quarter(order_date) = 1
GROUP BY pizza_size
ORDER BY Percent_Of_Total DESC;
```

	pizza_size	Total_sales_by_size	Percent_Of_Total
▶	L	95229.65	46.37
	M	61159.00	29.78
	S	45384.25	22.1
	XL	3289.50	1.6
	XXL	287.60	0.14

-- Top 5 best Sellers by **Revenue , Total Quantity and Orders**

```
SELECT pizza_name, SUM(total_price) AS Total_Revenue
FROM pizza_sales
```

```
GROUP BY pizza_name
ORDER BY Total_Revenue DESC
LIMIT 5;
```

	pizza_name	Total_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 Spicy Italian Pizza	34831.25

## -- QUANTITY

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

	pizza_name	Total_Quantity
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

## -- ORDERS

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

	pizza_name	Total_Orders
▶	The Classic Deluxe Pizza	2329
	The Hawaiian Pizza	2280
	The Pepperoni Pizza	2278
	The Barbecue Chicken Pizza	2273
	The Thai Chicken Pizza	2225

-- Top 5 least Sellers by **Revnuue , Total Quantity and Orders**

## -- REVENUE

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

	pizza_name	Total_Revenue
►	The Brie Carre Pizza	11588.499813079834
	The Green Garden Pizza	13955.75
	The Spinach Supreme Pizza	15277.75
	The Mediterranean Pizza	15360.5
	The Spinach Pesto Pizza	15596

## -- QUANTITY

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

	pizza_name	Total_Quantity
►	The Brie Carre Pizza	490
	The Mediterranean Pizza	934
	The Calabrese Pizza	937
	The Spinach Supreme Pizza	950
	The Soppressata Pizza	961

## -- ORDERS

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

	pizza_name	Total_Orders
►	The Brie Carre Pizza	480
	The Mediterranean Pizza	912
	The Calabrese Pizza	918
	The Spinach Supreme Pizza	918
	The Chicken Pesto Pizza	938