

# Pizza Sales SQL Queries

## A. KPIs

### 1. Total Revenue

```
SELECT SUM(total_price) as total_revenue FROM pizza_sales;
```

	total_revenue numeric 
1	817860.05


### 2. Average Order Value

```
WITH order_values AS (SELECT order_id, SUM(total_price) AS order_value  
FROM pizza_sales  
GROUP BY order_id)
```

```
SELECT AVG(order_value) as avg_order_value FROM order_values;
```


-- ALTERNATIVELY:

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

	avg_order_value numeric 
1	38.3072622950819672

### 3. Total Pizzas Sold

```
SELECT SUM(quantity) AS total_pizzas_sold FROM pizza_sales;
```

	total_pizzas_sold bigint 
1	49574

#### 4. Total Orders Placed

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


	total_orders bigint 
1	21350

#### 5. Average Pizzas Per Order

```
WITH order_quants AS (SELECT order_id, SUM(quantity) AS order_quantity  
                      FROM pizza_sales  
                      GROUP BY order_id)  
SELECT AVG(order_quantity) AS avg_pizzas_per_order  
FROM order_quants;
```

--ALTERNATIVELY:

```
SELECT (SUM(quantity) * 1.0 / COUNT(DISTINCT order_id)) AS  
avg_pizzas_per_order  
FROM pizza_sales;
```

	avg_pizzas_per_order numeric 
1	2.3219672131147541

## B. Trends / Insights

### 1. Daily Orders Trend

```
SELECT TO_CHAR(order_date, 'Day') AS day_name,  
       COUNT(DISTINCT order_id) as total_orders  
FROM pizza_sales  
GROUP BY day_name  
ORDER BY MIN(order_date)
```

	day_name text	totalOrders bigint
1	Thursday	3239
2	Friday	3538
3	Saturday	3158
4	Sunday	2624
5	Monday	2794
6	Tuesday	2973
7	Wednesday	3024

### 2. Hourly Orders Trend

```
SELECT EXTRACT (HOUR FROM order_time) as hour_of_day,  
       COUNT(DISTINCT order_id) AS total_orders  
FROM pizza_sales  
GROUP BY hour_of_day  
ORDER BY hour_of_day;
```

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

### 3. Monthly Orders Trend

```
SELECT TO_CHAR(order_date, 'Month') AS month_name,  
       COUNT(DISTINCT order_id) AS total_orders  
FROM pizza_sales  
GROUP BY month_name  
ORDER BY MIN(order_date);
```

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

#### 4. Percentage of Sales by Category

```
SELECT pizza_category,  
       SUM(total_price) AS total_sales,  
       ROUND((SUM(total_price) / (SELECT SUM(total_price) FROM  
pizza_sales)) * 100, 2) AS percent_contribution  
FROM pizza_sales  
GROUP BY pizza_category;
```

	<b>pizza_category</b> character varying (30) 🔒	<b>total_sales</b> numeric 🔒	<b>percent_contribution</b> numeric 🔒
1	Supreme	208197.00	25.46
2	Chicken	195919.50	23.96
3	Veggie	193690.45	23.68
4	Classic	220053.10	26.91

Note: If you wish to filter for a specific month (January for example), do the following:

```
SELECT pizza_category,  
       SUM(total_price) AS total_sales,  
       ROUND((SUM(total_price) / (SELECT SUM(total_price) FROM  
pizza_sales WHERE EXTRACT(MONTH FROM order_date) = 1)) * 100, 2) AS  
percent_contribution  
FROM pizza_sales  
WHERE EXTRACT(MONTH FROM order_date) = 1  
GROUP BY pizza_category;
```

Note: Important to also include WHERE condition within the subquery, or else percentages won't be correct

	<b>pizza_category</b> character varying (30) 🔒	<b>total_sales</b> numeric 🔒	<b>percent_contribution</b> numeric 🔒
1	Chicken	16188.75	23.20
2	Classic	18619.40	26.68
3	Supreme	17929.75	25.69
4	Veggie	17055.40	24.44

### 5. Percentage of Pizza Sales by Pizza Size

```
SELECT pizza_size, SUM(total_price) AS total_sales,  
       ROUND(SUM(total_price) / (SELECT SUM(total_price) FROM  
pizza_sales) * 100, 2) AS percent_contribution  
FROM pizza_sales  
GROUP BY pizza_size  
ORDER BY pizza_size;
```

	<b>pizza_size</b> character varying (5) 🔒	<b>total_sales</b> numeric 🔒	<b>percent_contribution</b> numeric 🔒
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

### 6. Total Pizzas Sold by Category

```
SELECT pizza_category,  
       SUM(quantity) AS pizzas_sold  
FROM pizza_sales  
GROUP BY pizza_category  
ORDER BY pizzas_sold DESC;
```

	<b>pizza_category</b> character varying (30) 🔒	<b>pizzas_sold</b> bigint 🔒
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050

## 7. Top 5 Best Sellers by Total Pizzas Sold

```
WITH quant_sold_rankings AS (SELECT pizza_name, SUM(quantity) AS
total_sold,
                                RANK() OVER(ORDER
                                BY SUM(quantity) DESC) AS ranking
FROM pizza_sales
GROUP BY pizza_name)
SELECT * FROM quant_sold_rankings
WHERE ranking <= 5;
```

	<b>pizza_name</b> character varying	<b>total_sold</b> bigint	<b>ranking</b> bigint
1	The Classic Deluxe Pizza	2453	1
2	The Barbecue Chicken Pizza	2432	2
3	The Hawaiian Pizza	2422	3
4	The Pepperoni Pizza	2418	4
5	The Thai Chicken Pizza	2371	5

## 8. Bottom 5 Worst Sellers by Total Pizzas Sold

```
WITH quant_sold_rankings AS (SELECT pizza_name, SUM(quantity) AS
total_sold,
                                RANK() OVER(ORDER
                                BY SUM(quantity)) AS ranking
FROM pizza_sales
GROUP BY pizza_name)
SELECT * FROM quant_sold_rankings
WHERE ranking <= 5;
```

	<b>pizza_name</b> character varying	<b>total_sold</b> bigint	<b>ranking</b> bigint
1	The Brie Carre Pizza	490	1
2	The Mediterranean Pizza	934	2
3	The Calabrese Pizza	937	3
4	The Spinach Supreme Pizza	950	4
5	The Soppressata Pizza	961	5

## 9. Top 5 Best Sellers by Revenue

```
WITH revenue_rank AS (SELECT pizza_name,
                             SUM(total_price) AS total_revenue,
                             RANK() OVER(ORDER BY
SUM(total_price) DESC) AS revenue_ranking
FROM pizza_sales
GROUP BY pizza_name)

SELECT *
FROM revenue_rank
WHERE revenue_ranking <= 5;
```

	<b>pizza_name</b> character varying	<b>total_revenue</b> numeric	<b>revenue_ranking</b> bigint
1	The Thai Chicken Pizza	43434.25	1
2	The Barbecue Chicken Pizza	42768.00	2
3	The California Chicken Pizza	41409.50	3
4	The Classic Deluxe Pizza	38180.50	4
5	The Spicy Italian Pizza	34831.25	5

## 10. Bottom 5 Sellers by Revenue

```
WITH revenue_rank AS (SELECT pizza_name,
                             SUM(total_price) AS total_revenue,
                             RANK() OVER(ORDER BY
SUM(total_price)) AS revenue_ranking
FROM pizza_sales
GROUP BY pizza_name)

SELECT *
FROM revenue_rank
WHERE revenue_ranking <= 5;
```

	<b>pizza_name</b> character varying	<b>total_revenue</b> numeric	<b>revenue_ranking</b> bigint
1	The Brie Carre Pizza	11588.50	1
2	The Green Garden Pizza	13955.75	2
3	The Spinach Supreme Pizza	15277.75	3
4	The Mediterranean Pizza	15360.50	4
5	The Spinach Pesto Pizza	15596.00	5