

DATA ANALYST PORTFOLIO PROJECT

ON PIZZA SALES



DATA ANALYST PORTFOLIO PROJECT STEPS

- IMPORT DATA
- > CREATING DB
- WRITING QUERIES
- CREATING REPORT
- > CONNECTING TO MS SQL SERVER WITH POWER BI
- DATA CLEANING
- > DATA PROCESSING
- > DATA VISUALIZATION

POWER BI DASHBOARD

SIZE

Large size pizza contributes to

maximum sales.

23.96%



30.49%

Veggie

25.46%

Veggie

Chicken

X-Large

XX-Large

11649

11050

POWER BI DASHBOARD

The Brie Carr...

12K



The Brie Carr...

490

The Brie Carr...

480

PROBLEM STATEMENT REQUIREMENT

We need to analyze key indicators for our pizza sales data to gain insights into our business performance. Specifically, we want to calculate the following metrics:

- 1. Total Revenue: The sum of the total price of all pizza orders.
- 2. Average Order Value: The average amount spent per order, calculated by dividing the total revenue by the total number of orders.
- 3. Total Pizzas Sold: The Sum of the quantities of all pizzas sold.
- 4. Total Orders: The total number of orders placed.
- 5. Average Pizzas Per Order: The average number of pizzas sold per order, calculated by dividing the total number of pizzas sold by the total number of orders.

PROBLEM STATEMENT

CHARTS REQUIREMENT

We would like to visualize various aspects of our pizza sales data to gain insights and understand key trends. We have identified the following requirements for creating charts:

1. Daily Trend for Total Orders:

Create a bar chart that displays the daily trend of total orders over a specific time period. This chart will help us identify any patterns or fluctuations in order volumes on a daily basis.

2. Monthly Trend for Total Orders:

Create a area chart that illustrates the hourly trend of total orders throughout the day. This chart will allow us to identify peak hours or periods of high order activity.

3. Percentage of Sales by Pizza Category:

Create a pie chart that shows the distribution of sales across different pizza categories. This chart will provide insights into the popularity of various pizza categories and their contribution to overall sales.

PROBLEM STATEMENT

CHARTS REQUIREMENT

4. Percentage of Sales by Pizza Size:

Generate a donut chart that represents the percentage of sales attributed to different pizza sizes. This chart will help us understand customer preferences for pizza sizes and their impact on sales.

5. Total Pizzas Sold by Pizza Category:

Create a funnel chart that presents the total number of pizzas sold for each pizza category. This chart will allow us to compare the sales performance of different pizza categories.

6. Top 5 Best Sellers by Revenue, Total Quantity and Total Orders

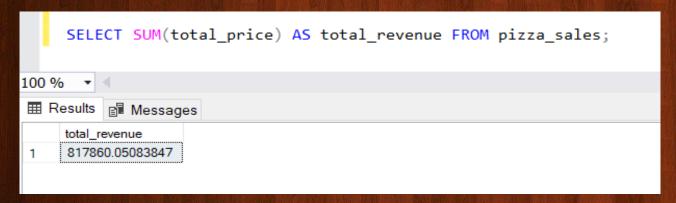
Create a bar chart highlighting the top 5 best-selling pizzas based on the Revenue, Total Quantity, Total Orders. This chart will help us identify the most popular pizza options.

7. Bottom 5 Best Sellers by Revenue, Total Quantity and Total Orders

Create a bar chart showcasing the bottom 5 worst-selling pizzas based on the Revenue, Total Quantity, Total Orders. This chart will enable us to identify underperforming or less popular pizza options.

PIZZA SALES SQL QUERIES

1. Total Revenue:



2. Average Order Value:

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

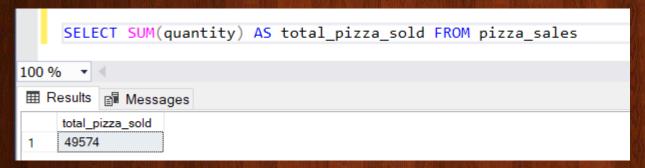
FROM pizza_sales

100 % 
Results Messages

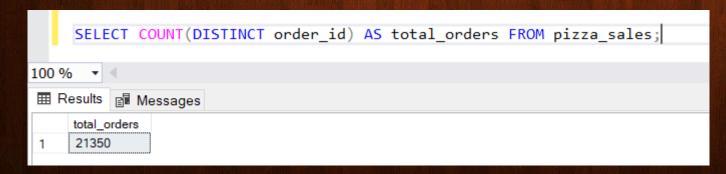
avg_order_value
1 38.3072623343546
```

PIZZA SALES SQL QUERIES

3. Total Pizzas Sold:



4. Total Orders:



PIZZA SALES SQL QUERIES

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;

100 %

Results Messages

avg_pizza_per_order

1 2.32
```

CHARTS 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)
100 % ▼
order_day
              total_orders
     Saturday
              3158
     Wednesday
              3024
     Monday
              2794
     Sunday
              2624
              3538
     Friday
              3239
     Thursday
     Tuesday
              2973
```

2. Monthly Trend 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)
     ORDER BY total_orders DESC
100 %

    ⊞ Results

         month name
                total_orders
                 1935
     July
                 1853
     May
                1845
     January
     August
                1841
                1840
     March
     April
                1799
 6
                 1792
     November
                1773
 8
     June
                1685
     February
                 1680
     December
     September
                 1661
     October
                 1646
```

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
100 %
total_sales
    pizza_category
                               pct
                220053.100021362 26.9059602306976
     Classic
     Chicken
                195919.5
                               23.9551375322885
               193690.451004028 23.6825910258677
     Veggie
                208196.99981308 25.4563112111462
     Supreme
```

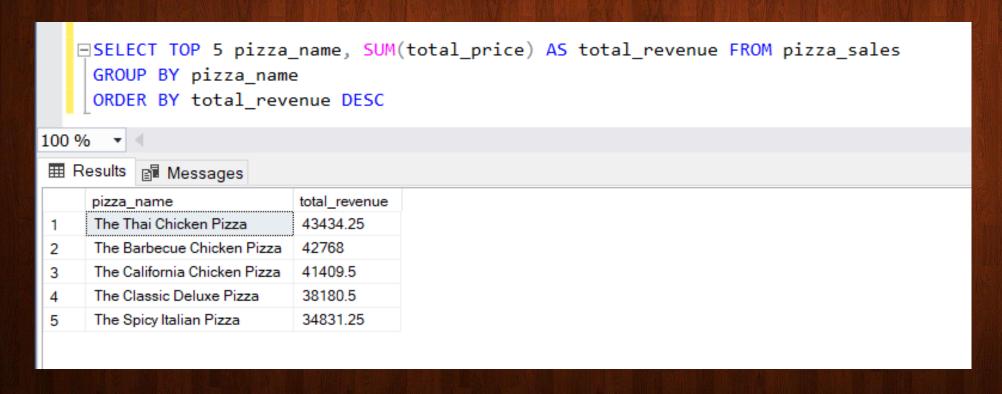
CHARTS REQUIREMENT

4. Percentage of Sales by Pizza Size:

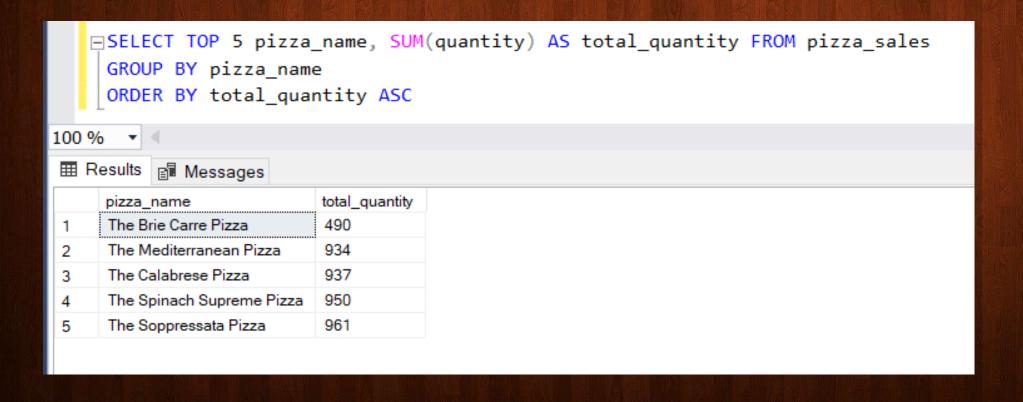
```
□SELECT pizza_size, SUM(total_price) AS total_sales, SUM(total_price) * 100 / (SELECT SUM(total_price) FROM pizza_sales) AS pct
    FROM pizza_sales
    GROUP BY pizza_size
    ORDER BY pct DESC;
100 %
total_sales
    pizza_size
             375318.701004028 45.8903330244889
             249382.25
                            30.492044420599
            178076.49981308 21.7734684107037
     XL
             14076
                            1.72107684995364
    XXL
             1006.6000213623
                           0.123077294254725
```

5. Total Pizzas Sold by Pizza Category:

6. Top 5 Best Sellers by Revenue, Total Quantity and Total Orders



7. Bottom 5 Best Sellers by Revenue, Total Quantity and Total Orders



SOFTWARE USED

- > MS OFFICE / EXCEL
- > MS SQL SERVER
- > SQL SERVER MANAGEMENT STUDIO
- > POWER BI