**This page is the SQL queries report for cross-validation**

**analytical results purposes.**

**The Analysis Project Report and Recommendations:**

<https://github.com/NguyenDangXuanLinh/The-Pizza-Analysis-Report-with-PowerBI-SQL>

**Power BI Dashboard:** <https://app.powerbi.com/view?r=eyJrIjoiMDMwMjRjMjQtYzJlNC00OTgwLWIxYmEtNDRkMjZkNjg3NDI0IiwidCI6ImRmODY3OWNkLWE4MGUtNDVkOC05OWFjLWM4M2VkN2ZmOTVhMCJ9>

**PIZZA SALES SQL QUERIES**

1. **KPI’S**
2. **Total Revenue:**

SELECT SUM(total\_price) AS Total\_Revenue

FROM pizza\_sales;

1. **Average Order Value**:A screenshot of a number

   Description automatically generated

SELECT SUM(total\_price) / COUNT(DISTINCT (order\_id)) AS Average\_Total\_Value

FROM pizza\_sales;A screenshot of a phone

Description automatically generated

1. **Total Pizza Sold:**

SELECT SUM(quantity) AS Total\_Pizza\_Sold

FROM pizza\_sales;A screenshot of a phone

Description automatically generated

1. **Total Orders:**

SELECT COUNT(DISTINCT (order\_id)) AS Total\_Orders

FROM pizza\_sales;A screenshot of a cell phone

Description automatically generated

1. **Average Pizza 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;A close-up of a box

Description automatically generated

1. **Daily Trends for Total Orders:**

*--Convert order\_date column’s data type to Datetime--*

*UPDATE pizza\_sales*

*SET order\_date = STR\_TO\_DATE(order\_date, "%d/%m/%Y");*

-------------------------------------------------------------------------------

SELECT DATE\_FORMAT(order\_date, "%W") AS Order\_Day,

COUNT(DISTINCT order\_id) AS Total\_Orders

FROM pizza\_sales

GROUP BY DATE\_FORMAT(order\_date, "%W")

ORDER Total\_Orders DESC;

**Output:**A screenshot of a number

Description automatically generated

1. **Hourly Trend for Total Orders:**

SELECT DATE\_FORMAT (order\_date, "%M") AS Month\_Name,

COUNT(DISTINCT order\_id) AS Total\_Orders

FROM pizza\_sales

GROUP BY DATE\_FORMAT (order\_date, "%M")

ORDER BY Total\_Orders DESC;A screenshot of a table

Description automatically generated

1. **Percentage of Sales by Pizza Category:**

SELECT pizza\_category,

CAST(SUM(total\_price) AS DECIMAL( 10,2) ) AS Total\_sales,

CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price)

FROM pizza\_sales

WHERE MONTH(order\_date) = 1) AS DECIMAL (10,2)) AS Percentage\_Total\_Sales

FROM pizza\_sales

WHERE MONTH(order\_date) = 1

GROUP BY pizza\_category;

**Output**A screenshot of a graph

Description automatically generated

1. **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 PTC

FROM pizza\_sales

GROUP BY pizza\_size

ORDER BY PTC DESC;

**Output**A screenshot of a graph

Description automatically generated

1. **Total of Pizzas Sold by Category (per month):**

SELECT pizza\_category,

CAST(SUM(quantity) AS DECIMAL(10,2)) AS Total\_sales

FROM pizza\_sales

WHERE MONTH(order\_date) = 2

GROUP BY pizza\_category;A screenshot of a graph

Description automatically generated

1. **Top 5 Pizzas By Revenue:**

SELECT pizza\_name,

SUM(total\_price) AS Total\_Revenue

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Revenue DESC

LIMIT 5;A screenshot of a menu

Description automatically generated

1. **Bottom 5 Pizzas By Revenue:**

SELECT pizza\_name,

SUM(total\_price) AS Total\_Revenue

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Revenue

LIMIT 5;A screenshot of a pizza menu

Description automatically generated

1. **Top 5 Pizzas By Quantity:**

SELECT pizza\_name,

SUM(quantity) AS Total\_Quantity

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Quantity DESC

LIMIT 5;A screenshot of a menu

Description automatically generated

1. **Bottom 5 Pizzas By Quantity:**

SELECT pizza\_name,

SUM(quantity) AS Total\_Quantity

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Quantity

LIMIT 5;A screenshot of a menu

Description automatically generated

1. **Top 5 Pizzas By Order:**

SELECT pizza\_name,

COUNT(DISTINCT order\_id) AS Total\_Order

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Order DESC

LIMIT 5;A screenshot of a menu

Description automatically generated

1. **Bottom 5 Pizzas By Order:**

SELECT pizza\_name,

COUNT(DISTINCT order\_id) AS Total\_Order

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Order

LIMIT 5; A screenshot of a menu

Description automatically generated

NOTE

If you want to apply the Month, Quarter, Week filters to the queries you can use WHERE clause. Follow some of below examples:

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 Percentage\_Total\_Sale

FROM pizza\_sales

WHERE MONTH(order\_date) = 1

GROUP BY pizza\_category;

***\**** *Here MONTH(order\_date) = 1 indicates that the output is for the month of January.*

*\* MONTH(order\_date) = 4 is output for April*

SELECT pizza\_category, SUM(total\_price) AS Total\_sales,

SUM(total\_price) \* 100 / (SELECT SUM(total\_price)

FROM pizza\_sales

WHERE QUARTER (order\_date) = 1

) AS Percentage\_Total\_Sales

FROM pizza\_sales

WHERE QUARTER (order\_date) = 1

GROUP BY pizza\_category;

***\**** *Here QUARTER(order\_date) = 1 indicates that the output is for the Quarter 1.*

*\* QUARTER(order\_date) = 4 is output for Quarter 4.*