Pizza sales dashboard

Using power Bi and sql tool

1. Use ms sql server using importing the data
2. Install mssql on the system
3. Configure ms sql darabase studio
4. Create data by query option (create database sales;) For checking all reports
5. Problems statements KPI: Total Revenue, Average Order Values, Total Pizzas sold, Total Orders, Average Pizzas Per orders.
6. Charts requirements: Percentage of sales by pizzas size, Total pizzas sold by pizzas category ,Top 5 best seller by revenue ‘total quantity and total orders , bottom 5 best seller by revenue ‘total quantity and total orders .
7. Software used; ms sql server , Microsoft sql , power bi
8. Create a data base in ms sql server name by pizzasalesdb
9. Import file in ms sql server R/c on server name and click on task and import option for import pizza sales files.
10. Changes the format nvarcgar to varchar and tinyint ti int format
11. Pizza sales query
12. After import check the files select \* from pizza\_sales;
13. Fire first query : select sum(total\_price) from pizza\_sales;
14. Make alies command for creating coloumns: select sum(total\_price) as Total\_Revenue from pizza\_sales; 817860.05083847
15. Average Order Values, : select SUM(total\_price) / COUNT(Distinct(order\_id)) from pizza\_sales; 38.3072623343546

Provide name to column : select SUM(total\_price) / COUNT(Distinct(order\_id)) as Average\_order\_value from pizza\_sales;

Total Pizzas sold: select Sum(quantity) as Total\_pizzas\_sold from pizza\_sales; 49574

1. Total Orders: select SUM(DISTINCT(order\_id)) as Total\_order from pizza\_sales; 227921925

Average Pizzas Per orders: select Sum(quantity) / Count(Distinct order\_id) as Average\_Pizzas\_Per\_orders from pizza\_sales; 2

If you want decimal values : select Cast(Sum(quantity) as decimal(10,2)) / cast(Count(Distinct order\_id) as decimal(10,2)) AS average\_pizzas\_per\_order from pizza\_sales; 2.3219672131147

or

SELECT CAST(CAST(SUM(quantity) AS DECIMAL(10, 2)) / CAST(COUNT(DISTINCT order\_id) AS DECIMAL(10, 2)) AS DECIMAL(10, 2)) AS average\_pizzas\_per\_order FROM pizza\_sales; 2.32

select Sum(quantity) / Count(Distinct order\_id) as Average\_Pizzas\_Per\_orders from pizza\_sales; 2

1. Charts requirements :

select DATENAME(DW, order\_date) as order\_day, count(distinct order\_id) as Total\_Orders from pizza\_sales group by DATENAME(DW, order\_date) ;

Saturday 3158

Wednesday 3024

Monday 2794

Sunday 2624

Friday 3538

Thursday 3239

Tuesday 2973

1. # 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)

February 1685

June 1773

August 1841

April 1799

May 1853

December 1680

January 1845

September 1661

October 1646

July 1935

November 1792

March 1840

1. Or

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;

July 1935

May 1853

January 1845

August 1841

March 1840

April 1799

November 1792

June 1773

February 1685

December 1680

September 1661

October 1646

1. #percentage of sales by pizzas catagory#

select pizza\_category ,sum(total\_price) \* 100 / (select sum(total\_price) from pizza\_sales) as total\_sales

from pizza\_sales

group by pizza\_category; Classic 26.9059602306976

Chicken 23.9551375322885

Veggie 23.6825910258677

Supreme 25.4563112111462

Or

or

SELECT pizza\_category,SUM(total\_price) AS TSale,SUM(total\_price) \* 100 / (SELECT SUM(total\_price) FROM pizza\_sales) AS percentage\_of\_total\_sales FROM pizza\_sales

GROUP BY pizza\_category;

Classic 220053.100021362 26.9059602306976

Chicken 195919.5 23.9551375322885

Veggie 193690.451004028 23.6825910258677

Supreme 208196.99981308 25.4563112111462

1. Filter data :

SELECT pizza\_category,SUM(total\_price) AS TSale,SUM(total\_price) \* 100 / (SELECT SUM(total\_price) FROM pizza\_sales) AS percentage\_of\_total\_sales

FROM pizza\_sales

where MONTH (order\_date) = 2

GROUP BY pizza\_category; Classic 17336.1000022888 2.11969028008103

Chicken 15468.25 1.89130768572715

Veggie 15636.4000892639 1.91186744886652

Supreme 16718.8499832153 2.04421893037509

# filter By Month #

SELECT pizza\_category,SUM(total\_price) AS TSale,SUM(total\_price) \* 100 /

(SELECT SUM(total\_price) FROM pizza\_sales WHERE MONTH(order\_date) = 1) AS percentage\_of\_total\_sales

FROM pizza\_sales

WHERE MONTH(order\_date) = 1

GROUP BY pizza\_category;

Classic 18619.4000015259 26.6779189176038

Chicken 16188.75 23.1952780348435

Veggie 17055.4000778198 24.4370162489706

Supreme 17929.7499866486 25.6897867985821

1. # percenatge of sales by pizzas size #

SELECT pizza\_size,SUM(total\_price) AS TSale,SUM(total\_price) \* 100 /

(SELECT SUM(total\_price) FROM pizza\_sales ) AS PCT

FROM pizza\_sales

GROUP BY pizza\_size;

L 375318.701004028 45.8903330244889

XXL 1006.6000213623 0.123077294254725

M 249382.25 30.492044420599

XL 14076 1.72107684995364

S 178076.49981308 21.7734684107037

1. Check descding values; SELECT pizza\_size,SUM(total\_price) AS TSale,SUM(total\_price) \* 100 /

(SELECT SUM(total\_price) FROM pizza\_sales) AS PCT

FROM pizza\_sales

GROUP BY pizza\_size

ORDER BY PCT DESC;

L 375318.701004028 45.8903330244889

M 249382.25 30.492044420599

S 178076.49981308 21.7734684107037

XL 14076 1.72107684995364

XXL 1006.6000213623 0.123077294254725

# check in decimal format #

SELECT pizza\_size,SUM(total\_price) AS TSale,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;

L 375318.701004028 45.89

M 249382.25 30.49

S 178076.49981308 21.77

XL 14076 1.72

XXL 1006.6000213623 0.12

# need to digit output#

SELECT pizza\_size,CAST(SUM(total\_price) AS DECIMAL(10, 2)) AS TSale,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; 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

1. Or
2. SELECT pizza\_size,CAST(SUM(total\_price) AS DECIMAL(10, 2)) AS TSale,CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) FROM pizza\_sales) AS DECIMAL(10, 2)) AS PCT

FROM pizza\_sales

WHERE DATEPART(quarter, order\_date)= 1

GROUP BY pizza\_size

ORDER BY PCT DESC;

L 95229.65 11.64

M 61159.00 7.48

S 45384.25 5.55

XL 3289.50 0.40

XXL 287.60 0.04

26. SELECT

pizza\_size,

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

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;

L 95229.65 46.37

M 61159.00 29.78

S 45384.25 22.10

XL 3289.50 1.60

XXL 287.60 0.14

1. # top 5 best sellers by revenues #

# top 5 best sellers by revenues #

select \* from pizza\_sales;

select pizza\_name, SUM(total\_price) AS Total\_REvenues FROM pizza\_sales

Group BY pizza\_name;

select pizza\_name, SUM(total\_price) AS Total\_Revenues FROM pizza\_sales

Group BY pizza\_name

ORDER BY Total\_Revenues desc;

select top 5 pizza\_name, SUM(total\_price) AS Total\_Revenues FROM pizza\_sales

Group BY pizza\_name

ORDER BY Total\_Revenues desc;

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

1. # Bottum 5 best sellers by revenues #

select top 5 pizza\_name, SUM(total\_price) AS Total\_Revenues FROM pizza\_sales

Group BY pizza\_name

ORDER BY Total\_Revenues asc;

The Brie Carre Pizza 11588.4998130798

The Green Garden Pizza 13955.75

The Spinach Supreme Pizza 15277.75

The Mediterranean Pizza 15360.5

The Spinach Pesto Pizza 15596

select top 5 pizza\_name, SUM(quantity) AS Total\_Quantity FROM pizza\_sales

Group BY pizza\_name

ORDER BY Total\_Quantity asc;

The Brie Carre Pizza 490

The Mediterranean Pizza 934

The Calabrese Pizza 937

The Spinach Supreme Pizza 950

The Soppressata Pizza 961

28.

select top 5 pizza\_name, COUNT(DISTINCT(order\_id)) AS Total\_Order FROM pizza\_sales

Group BY pizza\_name

ORDER BY Total\_Order asc;

The Brie Carre Pizza 480

The Mediterranean Pizza 912

The Spinach Supreme Pizza 918

The Calabrese Pizza 918

The Chicken Pesto Pizza 938

**Create a Dashboard**

* + 1. Open power bi dashboard and click sql server option and mention sql server name as mention as database name DESKTOP-R1O7HFG\SQLEXPRESS
    2. Do load data
    3. Cleaning the data and make it structure format.
    4. We need to mention size as full name as larg and small .click on home and transform option in transform data

Power query editor will open

5.M= Medium ,S= Small ,replace option Xlarge= X- large

6.cleaning the data regularLarge= Large

7.go to dashboard

Total revenues

Create Dax Function

Total\_Revenue = sum(pizza\_sales[total\_price])

8. Total\_orders = DISTINCT(pizza\_sales[order\_id])

9 AVG\_order\_Values = [Total\_Revenue] / [Total\_orders]

10. Total\_Pizzas\_store = sum(pizza\_sales[quantity])

11. AVG\_pizzas\_per\_orders = [Total\_Pizzas\_sold] / [Total\_orders]