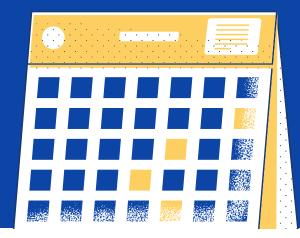
Data Fundamentals

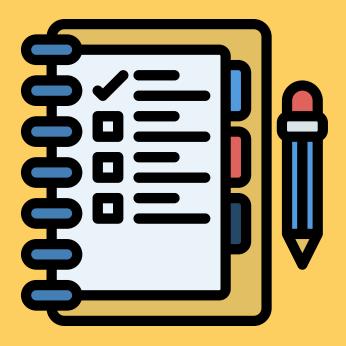
Spreadsheets Part 3 - Part 4



GOALS



- Our goal is to analyze the financial data and extract meaningful insights regarding revenue trends and performance over the fiscal years.
- We will review the previous session's content and build upon it to deepen our understanding of financial data analysis.
- Through the application of various functions and visualization techniques, we will uncover key patterns, trends, and relationships within the provided data.



AGENDA

Welcome

Review & Roadmap

Aggregation Functions

Comparison Operators

Logical Functions

Conditional Aggregation

Pivot Tables

Named Ranges

Lookup Functions

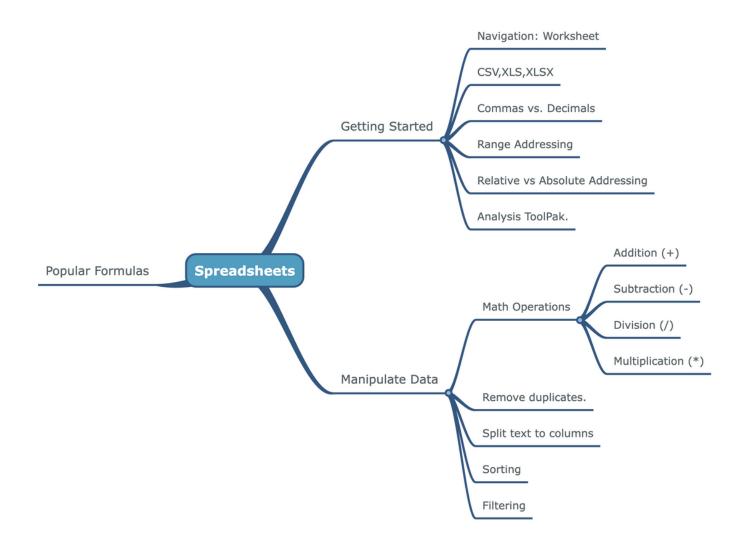
Visualize Data

Q&A



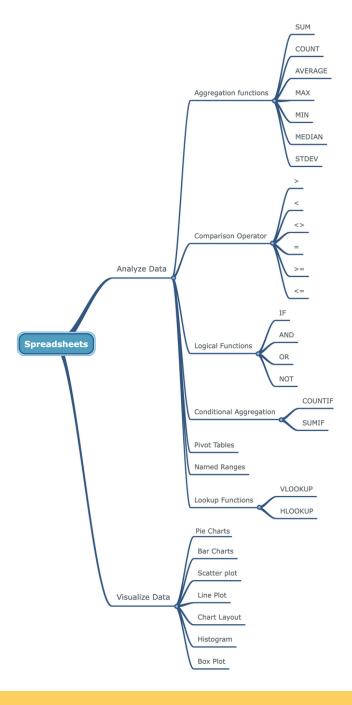
Behind every data point, there's a story waiting to be told.

REVIEW



ROADMAP





ANALYZING FINANCIAL DATA

Today, we will dive into the financial data of Bank Muscat **SAOG** and apply various functions and visualization techniques to gain insights into its revenue trends and performance over the fiscal years.

AGGREGATION FUNCTIONS

Example	Function	Result
Calculate the total revenue.	=SUM(data!C2:C11)	\$ 3,852.01
Count the number of years for which data is available.	=COUNT(data!A2:A11)	10
Calculate the average revenue growth rate.	=AVERAGE(data!D2:D11)	4.29%
Find the maximum revenue growth rate.	=MAX(data!D2:D11)	10.60%
Find the minimum revenue growth rate.	=MIN(data!D2:D11)	-9.70%
Find the median revenue growth rate.	=MEDIAN(data!D2:D11)	5.40%
Calculate the standard deviation of revenue growth.	=STDEV(data!D2:D11)	6%

COMPARISON OPERATORS & LOGICAL FUNCTIONS

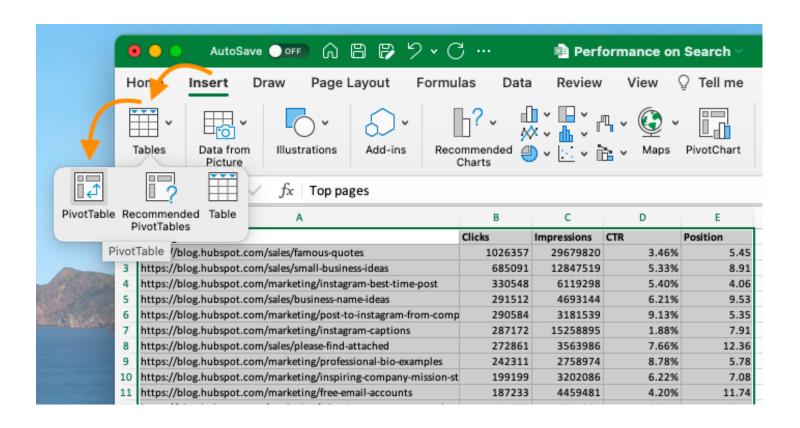
Identify the relationship between each year's revenue and the mean

Revenue	Year	Higher > 385.2007	Lower < 385.2007	Higher or equal >= 385.2007	Lower or equal <= 385.2007	Equal = 385.2007	Not Equal <> 385.2007
317.617	2013	No	Yes	No	Yes	No	Yes
343.501	2014	No	Yes	No	Yes	No	Yes
366.613	2015	No	Yes	No	Yes	No	Yes
377.324	2016	No	Yes	No	Yes	No	Yes
392.687	2017	Yes	No	Yes	No	No	Yes
403.494	2018	Yes	No	Yes	No	No	Yes
416.044	2019	Yes	No	Yes	No	No	Yes
375.501	2020	No	Yes	No	Yes	No	Yes
415.43	2021	Yes	No	Yes	No	No	Yes
443.796	2022	Yes	No	Yes	No	No	Yes

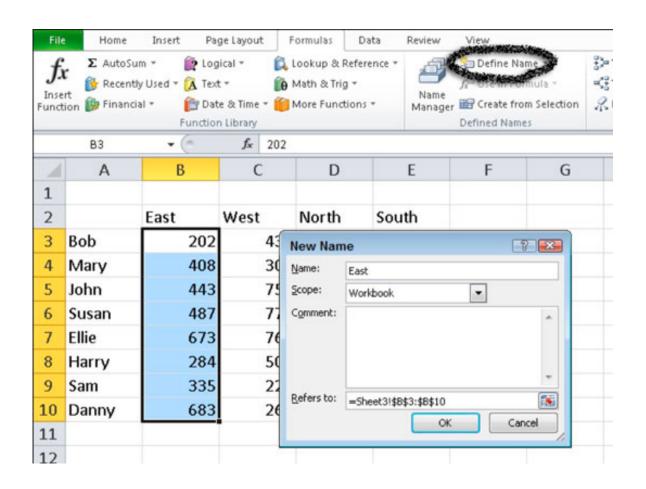
CONDITIONAL AGGREGATION

Example	Function	Result
Calculate the total revenue for years where the revenue is greater than 400 million	=SUMIFS(data!C2:C11,data!C2:C11,">400")	\$ 1,678.76
Count the number of years where the revenue is greater than 400 million	=COUNTIFS(data!C2:C11,">400")	4

PIVOT TABLES

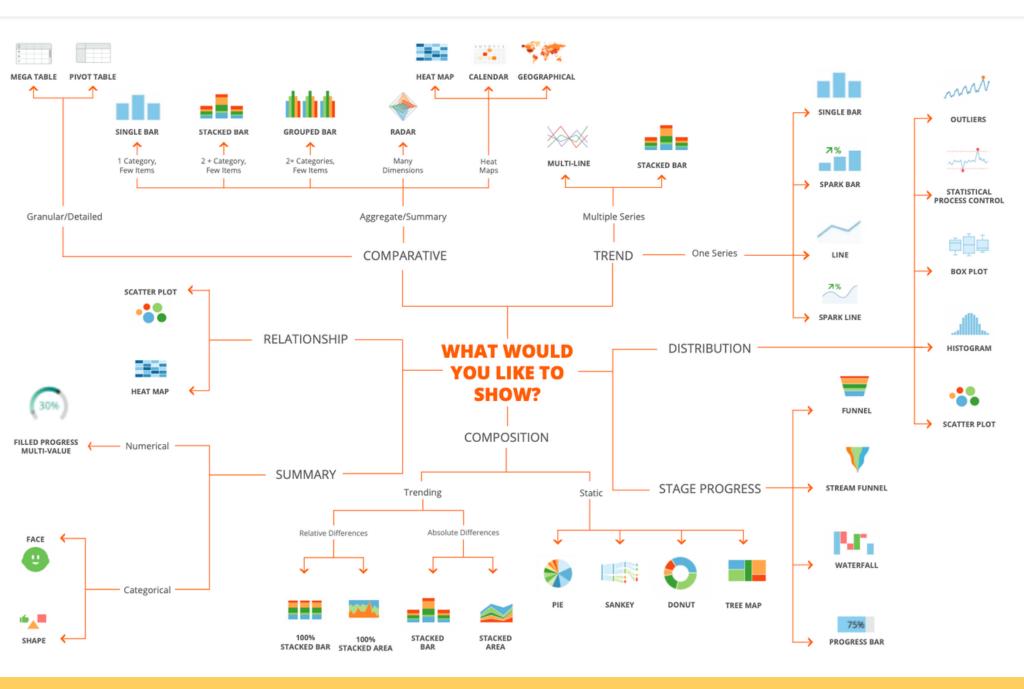


NAMED RANGES

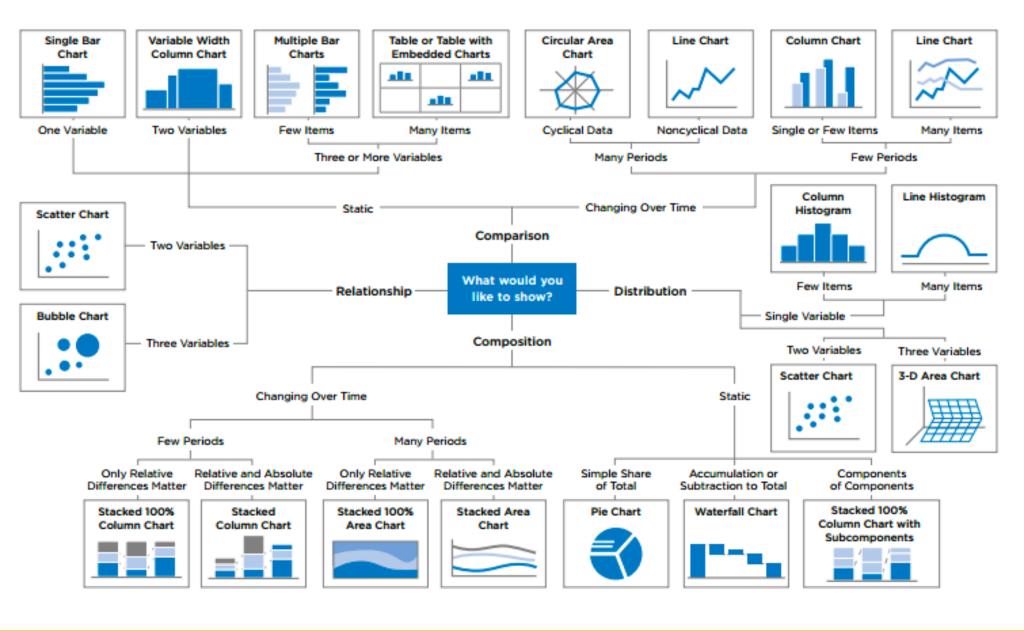


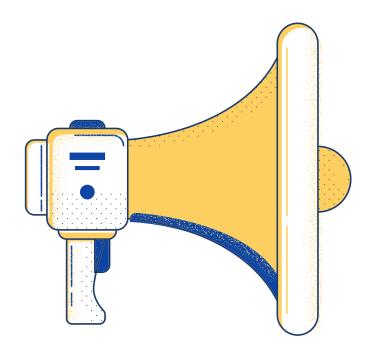
LOOKUP FUNCTIONS

Example	Function	Result
Use VLOOKUP to retrieve the revenue for a specific year	=VLOOKUP(2019, data!A2:C11, 3, FALSE)	\$ 416.044



SELECTING THE APPROPRIATE CHART FOR STRATEGY PRESENTATIONS





Q&A Session: Let's explore and understand together

RESOURCES

- Named range
- Pivot tables
- Pivot tables
- Lookup
- Conditional aggregation
- Pie chart
- Line chart
- Scatter plot
- Box plot
- Best Practices for Choosing Chart Types



Your presence today has added value to our shared learning journey. Thank you for joining us!