

Data Analysis in Excel



Learning Objectives







Apply Excel tools and formulas to transform and structure data



Create pivot tables to slice and dice data



Visualize data with pivot charts and Excel charts



Explore the landscape of data analysis and visualization

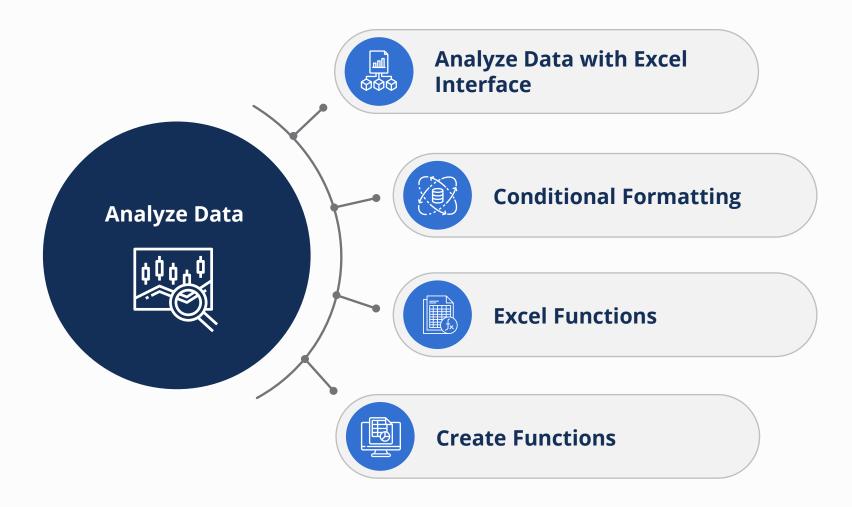


Chapter Introduction - Analyze Data



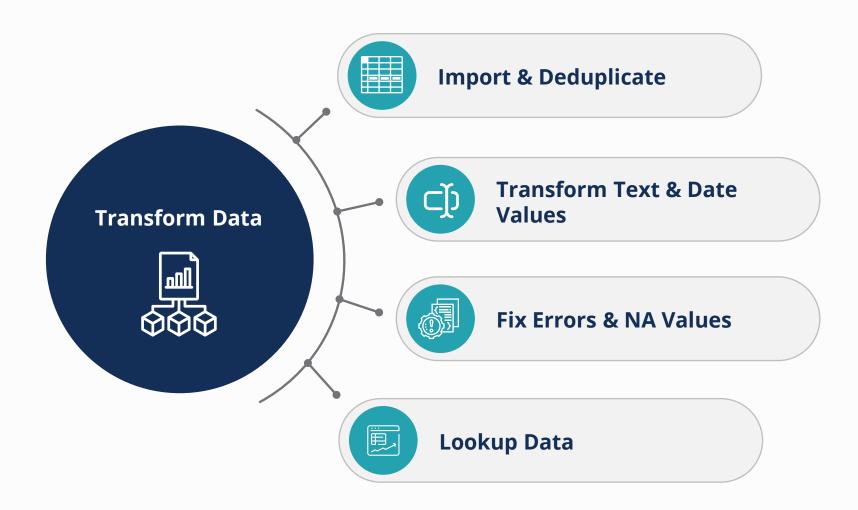


Chapter Review - Analyze Data



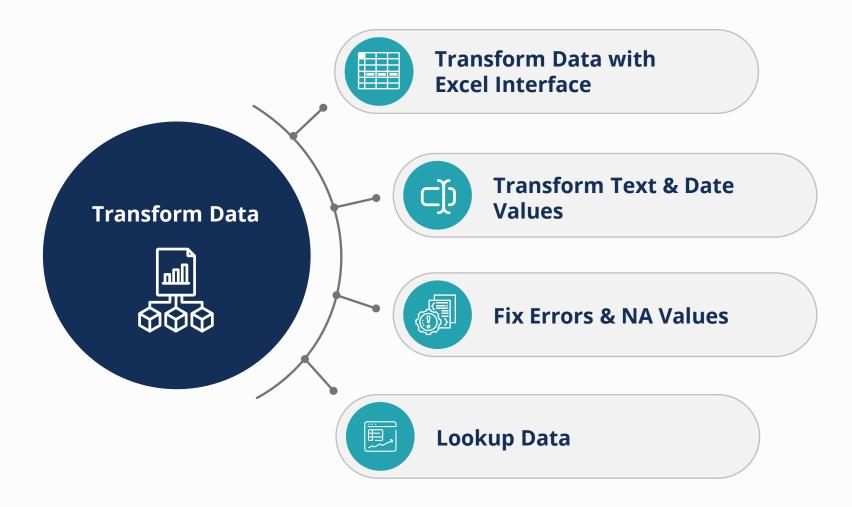


Chapter Introduction – Transform Data





Chapter Review - Transform Data





Chapter Introduction – Excel Tables



Chapter Review - Excel Tables

Excel tables are important to a modern data analysis



Power Query



Linked Data Types



Dynamic Arrays



Pivot Tables



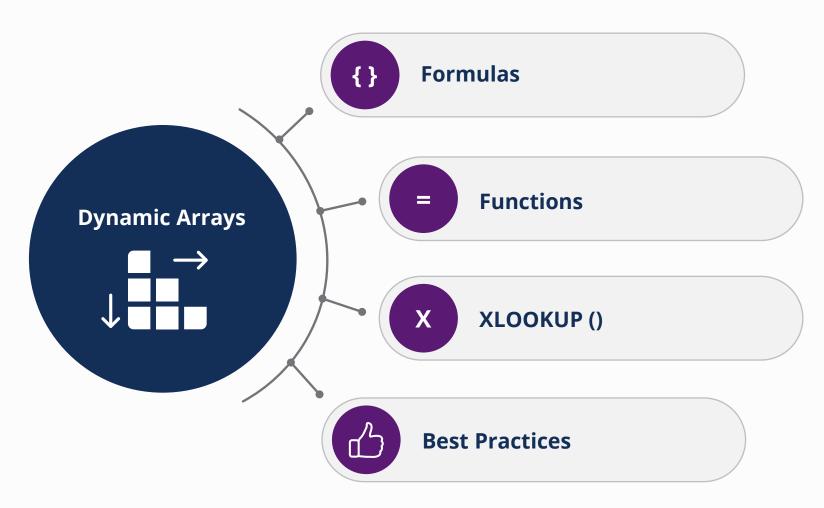
Data Visualizations

udentID 🕶 FirstName 🔽	LastName -	GradeAverage 🔻	Faculty -	Tuition 🔽 C	officeHoursParticipated 🔽	TutorialsAttended 🔻	ClassesSkipped 🔽
20123456 John	Park	В	Arts	44191	0	10	5
20123457 Alex	Great	В	Science	32245	4	10	10
20123458 Sebastian	Taylor	В	Business	42679	6	3	7
20123459 Michael	Bay	Α	Math	46478	15	3	2
20123460 Scott	Foster	Α	Engineering	36784	5	9	8
20123461 Amy	Winehouse	В	Arts	36537	10	6	3
20123462 Ralph	Wiggins	В	Business	40762	2	6	8
20123463 Homer	Simpson	C	Engineering	47669	4	8	7
20123464 Marge	Simpson	В	Math	39429	10	5	3
20123465 Peter	Gryffin	D	Arts	31956	7	9	7
20123466 Louise	King	D	Business	33227	6	2	7
20123467 Megan	Botts	A	Science	34751	25	5	1
20123468 Cyrus	Wong	A	Science	49298	20	0	0
20123469 Michelle	Chang	В	Business	35046	5	10	4
20123470 Zachary	Chua	Α	Business	31210	10	8	0
20123471 Angus	Helmsworth	В	Business	47515	10	6	1
20123472 Aaron	McDowell	В	Business	43421	13	7	2
20123473 Carol	Kuo	В	Engineering	43063	7	0	4
20123474 Tim	James	В	Science	46775	9	3	4
20123475 Johnson	Curry	В	Engineering	40539	9	4	3
20123476 Paul	Reed	Α	Business	41397	14	2	2
20123477 Josh	Hart	Α	Engineering	46468	4	8	8
20123478 Justin	Kang	Α	Engineering	35859	2	4	9
20123479 Kevin	Yoo	Α	Arts	41048	8	9	1
20123480 Rosaline	Jun	Α	Arts	44915	25	6	3
20123481 Jimin	Park	В	Engineering	34570	20	1	3
20123482 Joseph	Kim	A	Math	33376	12	5	6
20123483 Chris	Dang	F	Business	44737	3	8	8
20123484 Robbie	Tee	В	Engineering	49682	10	5	6
20123485 Shelly	Yoon	Α	Math	33585	5	7	10
20123486 Namjoon	Yoongi	A	Arts	53585	7	8	2



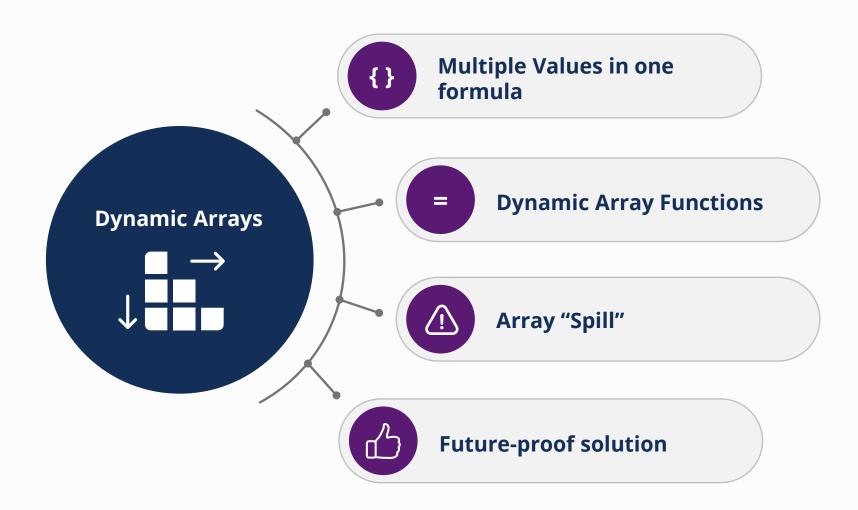
Chapter Introduction - Dynamic Arrays

Dynamic array formulas allow us to reference multiple values of data at once.





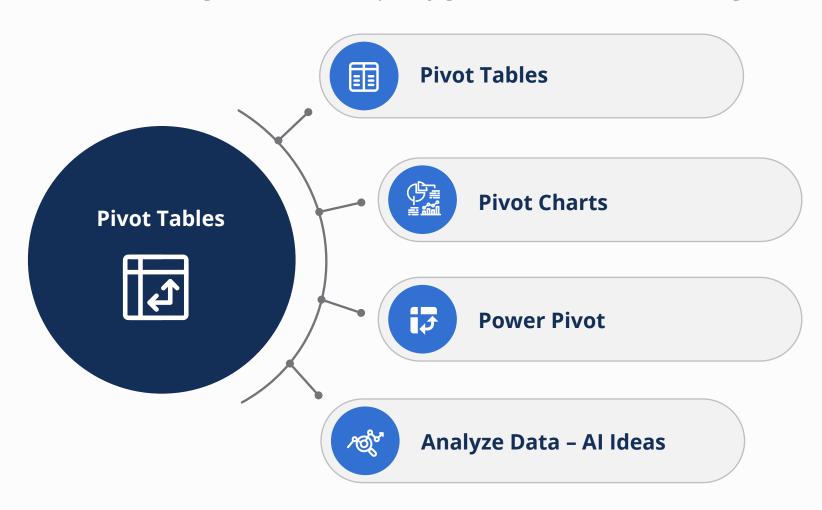
Chapter Review - Dynamic Arrays





Chapter Introduction – Pivot Tables

Pivot tables can be used to summarize large data sets and quickly generate lots of different insights.





Chapter Review - Pivot Tables





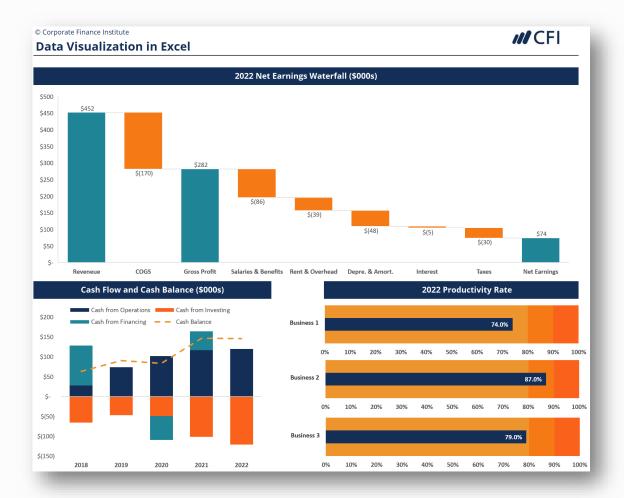
Chapter Introduction - Visualize Data

Visualizing Data with Excel Charts:



Select Chart

Format Chart





Chapter Review - Visualize Data







