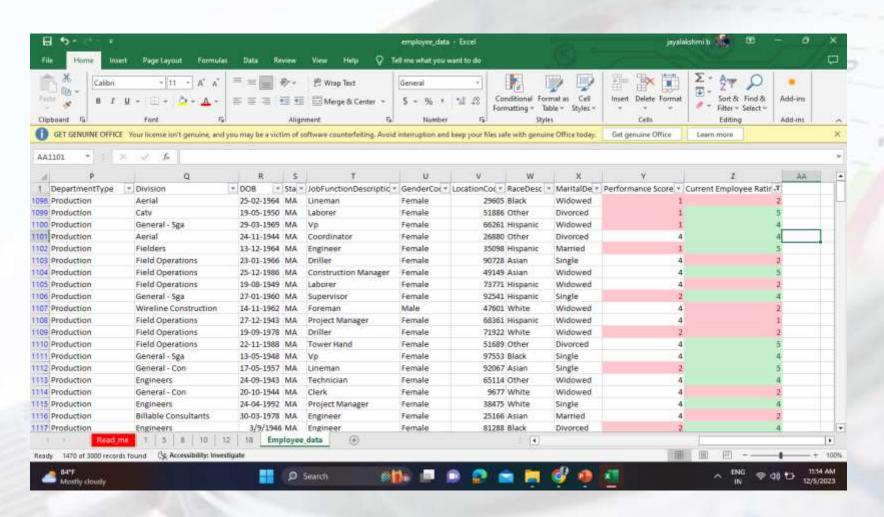
PROJECT 1 EMPLOYEE DATA ANALYSIS



Create a pivot table to summarize the total number of employees in each department

	Admin	Executive				Software	Grand
Department	Offices	Office	IT/IS	Production	Sales	Engineering	Total
Count of							
Employees	80	24	430	2020	331	115	3000

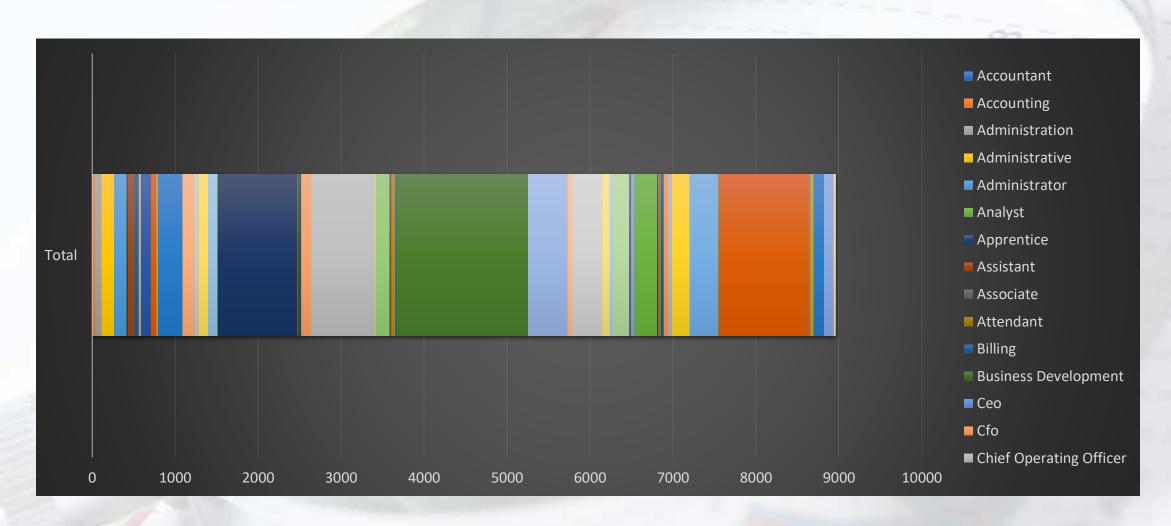
Apply conditional formatting to highlight employees with a "Performance Score" below 3 in red



Calculate the average "Satisfaction Score" for male and female employees separately using a pivot table

GENDER	Female	Male	Grand Total
Average of Satisfaction Score	3.006	3.042	3.022

Create a chart to visualize the distribution of "Work-Life Balance Score" for different job functions



Filter the data to display only terminated employees and find out the most common "Termination Type."

Termination Type	Involuntary	Resignation	Retirement	Unk	Voluntary	Grand Total
Termination Type	involuntar y	Kesignation	Retifement	Olik	voruntar y	Orana Total
Count of						
EmployeeStatus	388	380	377	1467	388	3000

Calculate the average "Engagement Score" for each department using a pivot table

Department	Admin Offices	Executive Office	IT/IS	Production	Sales	Software Engineering	Grand Total
Average of							
Engagement Score	2.925	3.375	3.026	2.906	2.991	2.974	2.940

Use VLOOKUP to find the supervisor's email address for a specific employee

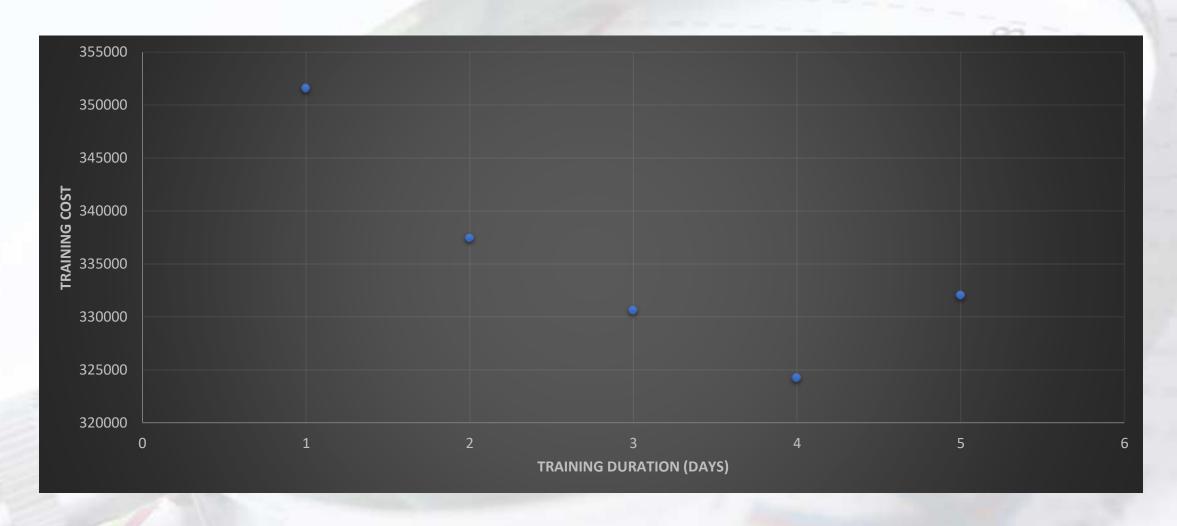
• VLOOKUP(D2,A:C,3,FALSE)

Employee ID	First Name	Email
1014	Heidi	brentswanson@example.org
	110101	orems wanson c example.org
1020	Cheryl	corey49@example.net
1027	Cory	condroforrall@avampla_nat
1027	Cory	sandraferrell@example.net
1060	Susan	zmoore@example.com

Can you identify the department with the highest average "Employee Rating?"

Department	Admin Offices	Executive Office	IT/IS	Production	Sales	Software Engineering	Grand Total
_ C		0 2220 0					
Average of Current Employee Rating	3.025	2.792	2.970	2.982	2.909	2.904	2.969

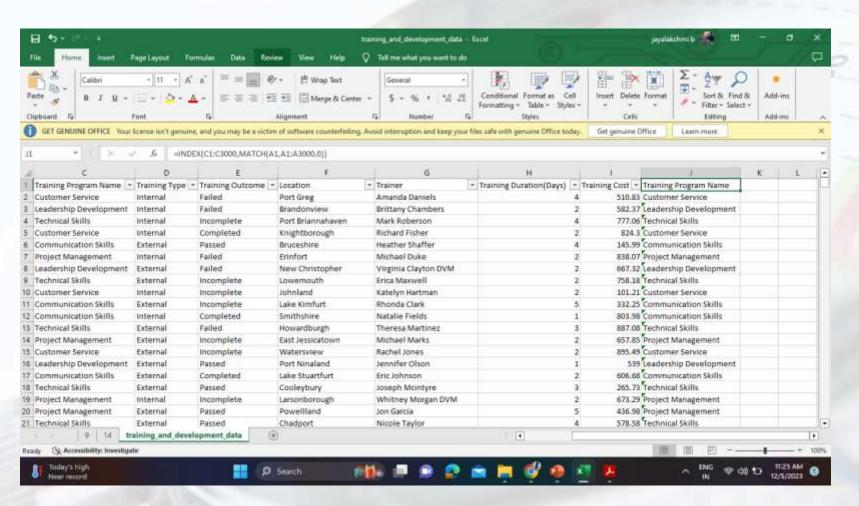
Create a scatter plot to explore the relationship between "Training Duration (Days)" and "Training Cost."



Build a pivot table that shows the count of employees by "RaceDesc" and "GenderCode."

Count of Employees	RaceDesc					
GenderCode	Asian	Black	Hispanic	Other	White	Grand Total
Female	346	346	325	318	347	1682
Male	283	272	247	264	252	1318
Grand Total	629	618	572	582	599	3000

Use INDEX and MATCH functions to find the "Training Program Name" for an employee with a specific ID



Create a multi-level pivot table to analyze the "Performance Score" by "BusinessUnit" and "JobFunctionDescription."

Count of JobFunctionDescription				Bu	siness	sUnit					
Performance Score	BPC	CCDR	EW	MSC	NEL	PL	PYZ	SVG	TNS	WBL	Grand Total
Exceeds	36	39	39	39	30	34	35	46	41	30	369
Fully Meets	235	234	240	226	251	241	228	233	233	240	2361
Needs Improvement	24	17	16	20	11	16	23	20	15	15	177
PIP	8	10	7	11	12	10	13	5	8	9	93
Grand Total	303	300	302	296	304	301	299	304	297	294	3000

Calculate the total training cost for each "Training Program Name" and display it in a bar chart

Training Program Name	Communication Skills	Customer Service	Leadership Development	Project Management	Technical Skills	Grand Total
Sum of Training Cost	365023.24	320575.04	323902.03	343313.17	323072.61	1675886.09
370000 36502	3.24					
360000		19 49	8			
350000	- 74			343313.17		
340000						
330000			323902.03		3	23072.61
320000	320	0575.04				25072.01
310000						
300000						

Leadership Development

Customer Service

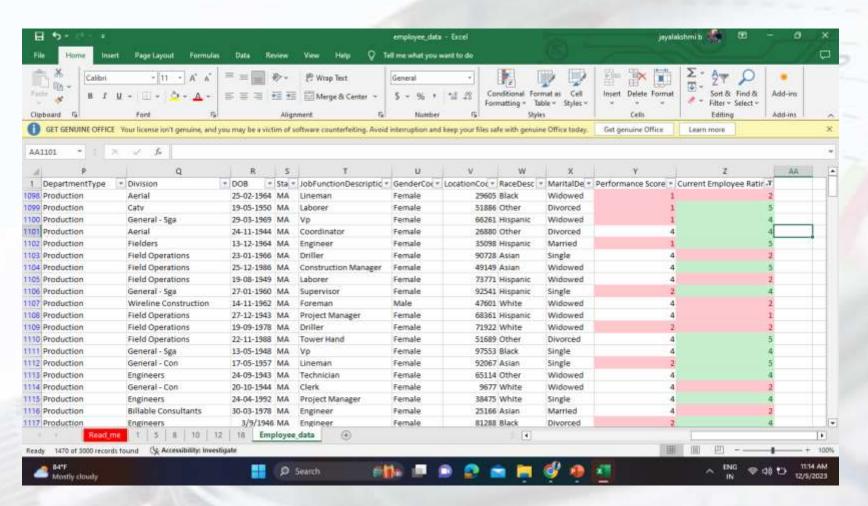
Project Management

Technical Skills

290000

Communication Skills

Apply advanced conditional formatting to highlight the top 10% and bottom 10% of employees based on "Current Employee Rating."

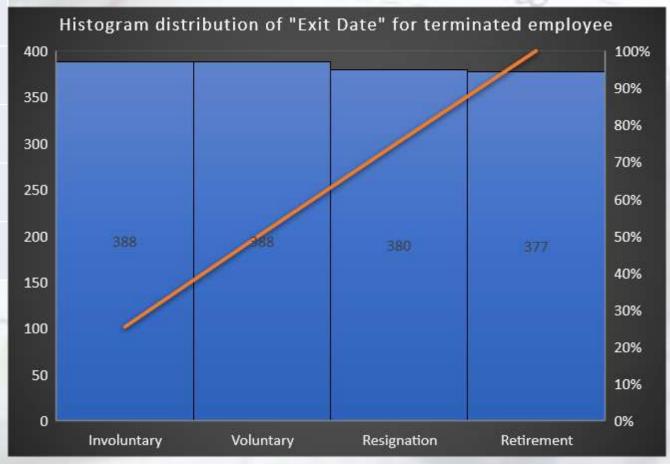


Use a calculated field in a pivot table to determine the average "Engagement Score" per year

Average of Engagement Score	2022	2023	Grand Total
Qtr1		2.902	2.902
Qtr2		3.014	3.014
Qtr3	2.963	2.940	2.954
Qtr4	2.892		2.892
Grand Total	2.918	2.954	2.940

Create a histogram to understand the distribution of "ExitDate" for terminated employees

TerminationType	Count of ExitDate
Involuntary	388
Resignation	380
Retirement	377
	388
Voluntary	300



Develop a dashboard that provides an overview of key HR metrics, including headcount, performance, and training costs, using charts and pivot tables

