

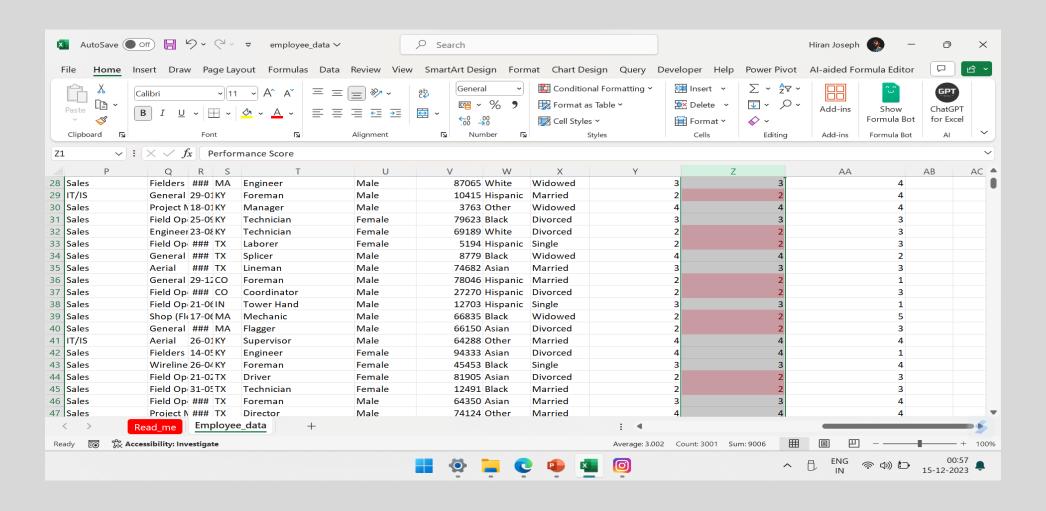
EMPLOYEE ANALYSIS

HIRAN JOSEPH

1. Can you create a pivot table to summarize the total number of employees in each department?

total number of employees in	each department
Department	✓ Count of Employee ID
Admin Offices	80
Executive Office	24
IT/IS	430
Production	2020
Sales	331
Software Engineering	115

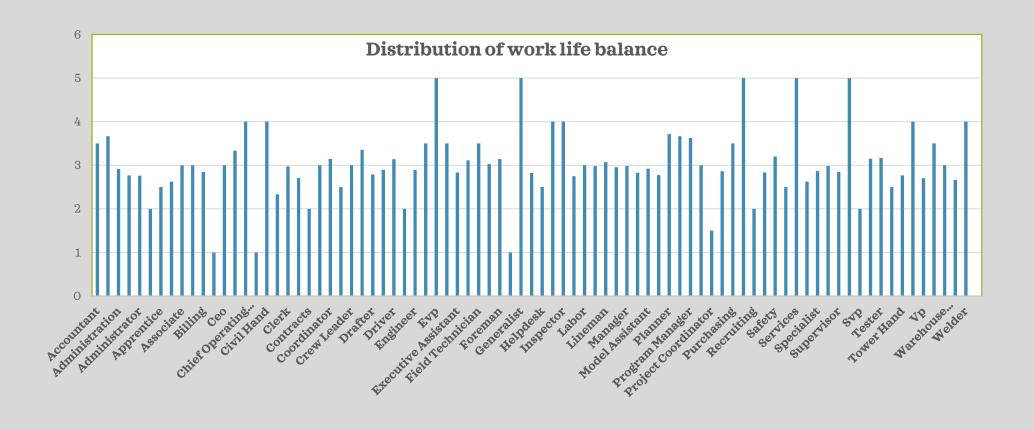
2. Apply conditional formatting to highlight employees with a "Performance Score" below 3 in red.



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

Row Labels	Average of Satisfaction Score
Female	3.020214031
Male	3.024279211
Grand Total	3.022

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



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

Row Labels	▼ Count of Employee ID
■ Terminated for Cause	66
Involuntary	21
Resignation	22
Retirement	10
Voluntary	13
■ Voluntarily Terminate	ed 321
Involuntary	86
Resignation	74
Retirement	76
Voluntary	85
Grand Total	387

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

Department	▼ Average of Engagement Score
Admin Offices	3
Executive Office	2.875
IT/IS	2.934883721
Production	2.95049505
Sales	2.876132931
Software Engineeri	ng 2.92173913

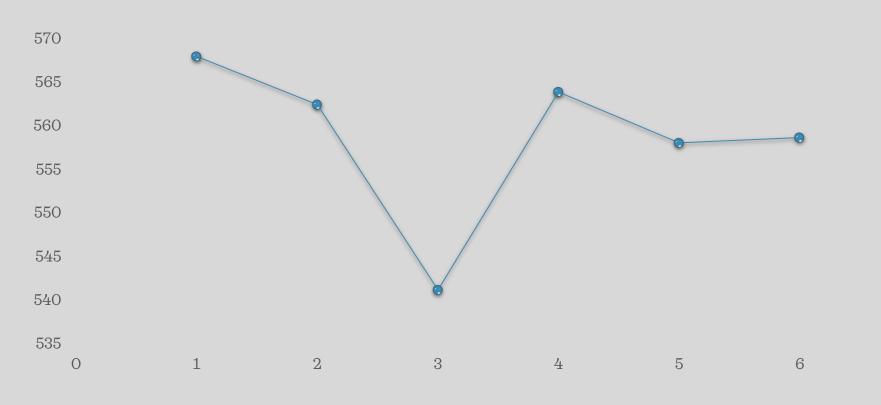
7. Use VLOOKUP to find the supervisor's email address for a specific employee.

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

Row Labels	Average of Current Employee Rating
Admin Offices	3.025
Executive Office	2.791666667
IT/IS	2.969767442
Production	2.982178218
Sales	2.909365559
Software Engineeri	ng 2.904347826

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

Average of Training Cost



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

Row Labels	Female		Male G	rand Total
Asian		346	283	629
Black		346	272	618
Hispanic		325	247	572
Other		318	264	582
White		347	252	599

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

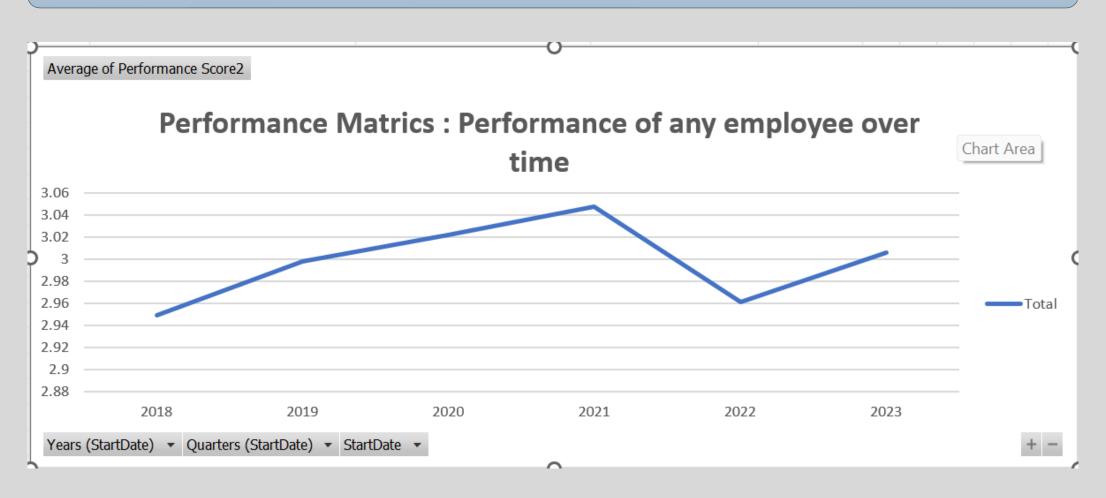
Employee ID	1	Training Date	Training Program	Training Type	Training Outcom	Location	Trainer	Training Dura	raining Cost	
	1001	21-Sep-22	Customer Service	e Internal	Failed	Port Greg	Amanda Daniels	4	511	
	1002	19-Jul-23	Leadership Devel	l Internal	Failed	Brandonview	Brittany Chambers	2	582	
	1003	24-Feb-23	Technical Skills	Internal	Incomplete	Port Briannahaven	Mark Roberson	4	777	
	1004	12-Jan-23	Customer Service	e Internal	Completed	Knightborough	Richard Fisher	2	824	
	1005	12-May-23	Communication :	S External	Passed	Bruceshire	Heather Shaffer	4	146	
	1006	08-May-23	Project Managen	n Internal	Failed	Erinfort	Michael Duke	2	838	

INDEX([training_and_development_data1.xlsx]training_and_development_data!\$A\$1:\$I\$3001, MATCH(\$A\$124,[training_and_development_data1.xlsx]training_and_development_data!\$A\$1: \$A\$3001,0),3)

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

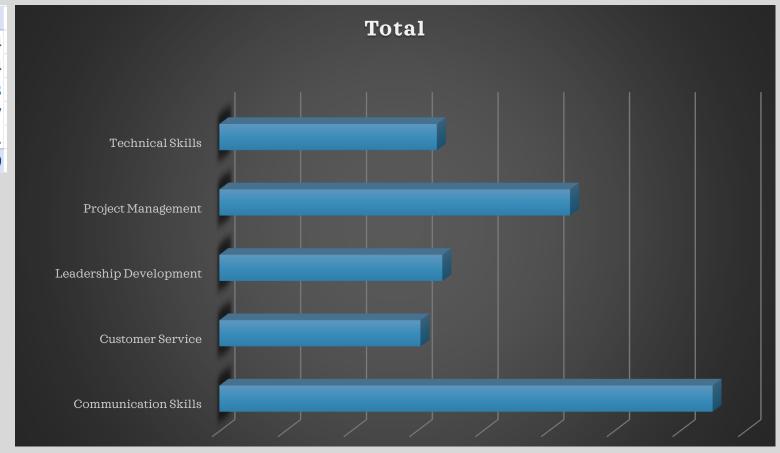
Row Labels 🔻 Count of Perform	mance Score
⊞ BPC	303
⊞ CCDR	300
⊞ EW	302
⊞ MSC	296
⊞ NEL	304
⊞ PL	301
⊞ PYZ	299
⊞ SVG	304
⊞TNS	297
⊞ WBL	294
Grand Total	3000

13. Design a dynamic chart that allows users to select and visualize the performance of any employee over time.

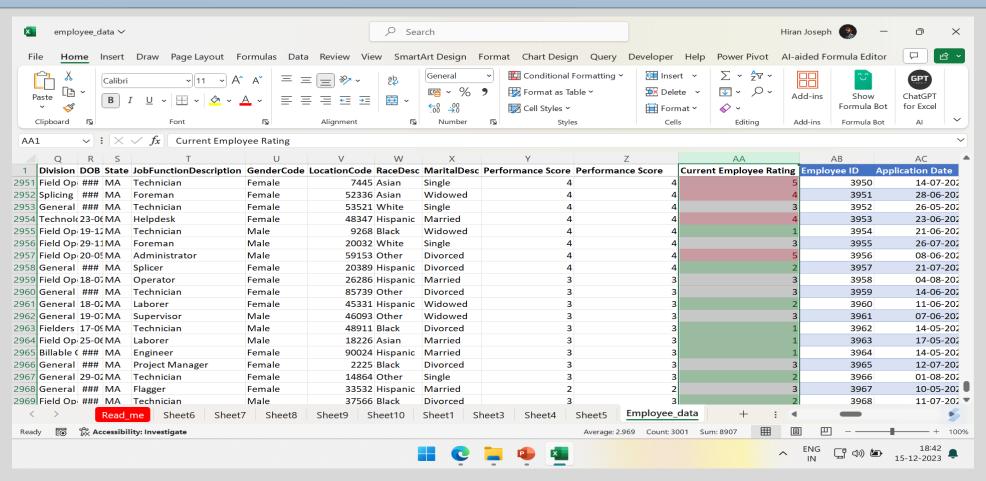


14. Calculate the total training cost for each "Training Program Name" and display it in a bar chart.

Row Labels	Sum of Training Cost
Communication Skills	365023.24
Customer Service	320575.04
Leadership Development	323902.03
Project Management	343313.17
Technical Skills	323072.61
Grand Total	1675886.09



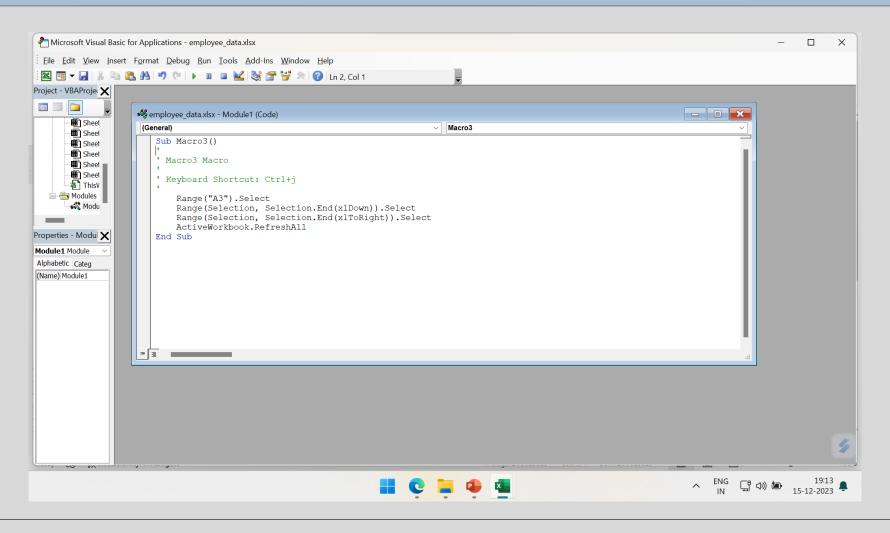
15. Apply advanced conditional formatting to highlight the top 10% and bottom 10% of employees based on "Current Employee Rating."



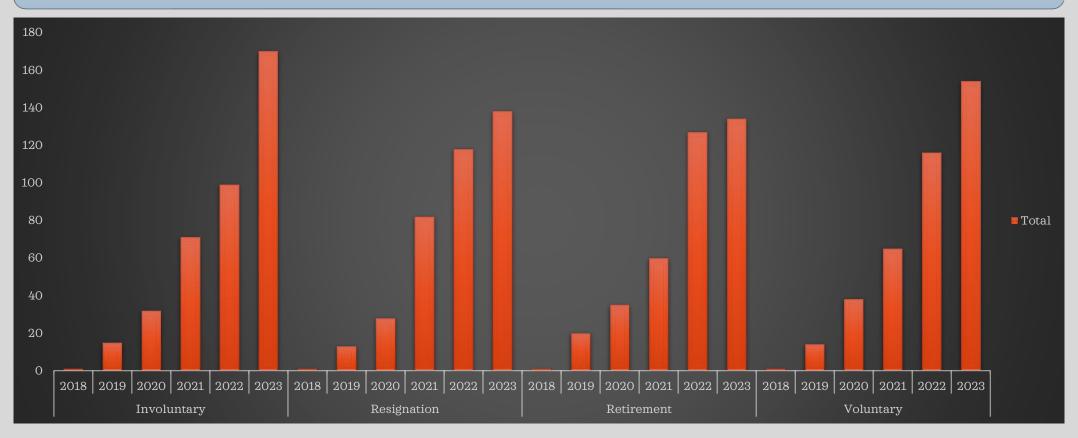
16. Use a calculated field in a pivot table to determine the average "Engagement Score" per year.

Quarters (StartDate)	(All)						
	Column Labels 🔻						
	2018	2019	2020	2021	2022	2023	Grand Total
Average of Engagement Score	2.988235294	2.894648829	2.964527027	2.951666667	2.908064516	2.976119403	2.939666667

17. Can you build a macro that automates the process of updating and refreshing all pivot tables in the workbook?



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



19. Utilize the SUMPRODUCT function to calculate the total training cost for employees in a specific location.

SumProduct for "Port Greg"	Formula
120300	SUMPRODUCT(([training_and_development_data1.xlsx]training_and_development_data!\$F\$2:\$F\$3001="Port
510	.83 Greg")*([training_and_development_data1.xlsx]training_and_development_data!\$I\$2:\$I\$3001))

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

