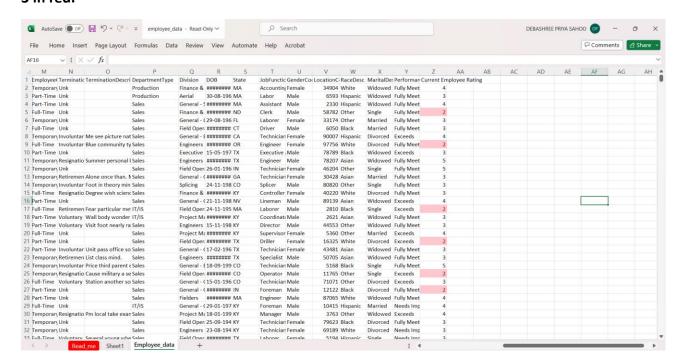


#### Name- Debashree Priya Sahoo

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

Row Labels	¥	Count of Employee ID
Admin Offices		80
Executive Office		24
IT/IS		430
Production		2020
Sales		331
Software Engineerin	g	115
(blank)		
Grand Total		3000

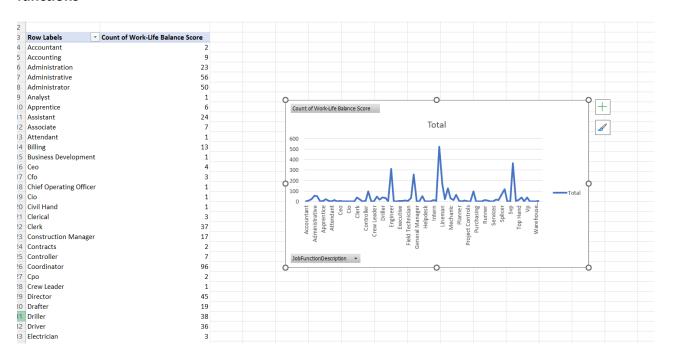
2. Apply conditional formatting to highlight employees with a "Performance Score" below 3 in red.



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
(blank)		
<b>Grand Total</b>		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 TerminationType
Involuntary	388
Resignation	380
Retirement	377
Unk	1467
Voluntary	388
(blank)	
<b>Grand Total</b>	3000

Unk is the most common termination type

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

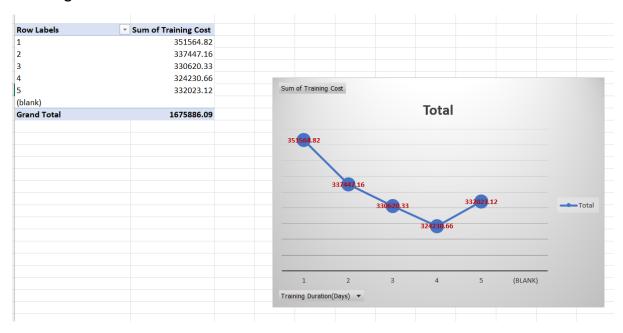
Row Labels	Average of Engagement Score
Admin Offices	2.75
Executive Office	2.583333333
IT/IS	2.853488372
Production	2.976237624
Sales	2.933534743
Software Engineering	2.843478261
(blank)	
Grand Total	2.939666667

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

Row Labels	Average of Current Employee Rating
Admin Offices	3.025
xecutive Office	2.791666667
T/IS	2.969767442
roduction	2.982178218
ales	2.909365559
oftware Engineering	2.904347826
blank)	
Grand Total	2.969

Admin offices has the highest average Employee Rating

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



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

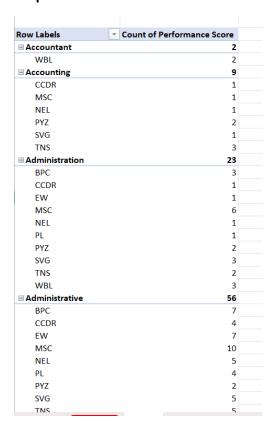
"GenderCode.

Row Labels	Count of GenderCode
<b>■</b> Asian	629
Female	346
Male	283
<b>■ Black</b>	618
Female	346
Male	272
<b>⊟</b> Hispanic	572
Female	325
Male	247
<b>⊟</b> Other	582
Female	318
Male	264
<b>■ White</b>	599
Female	347
Male	252
⊟ (blank)	
(blank)	
<b>Grand Total</b>	3000

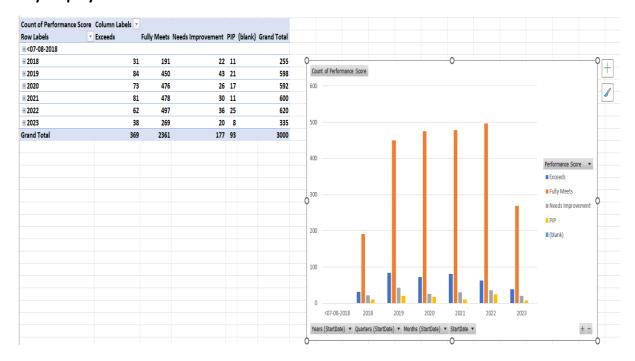
### 11. Use INDEX and MATCH functions to find the "Training Program Name" for an employee with a specific ID.



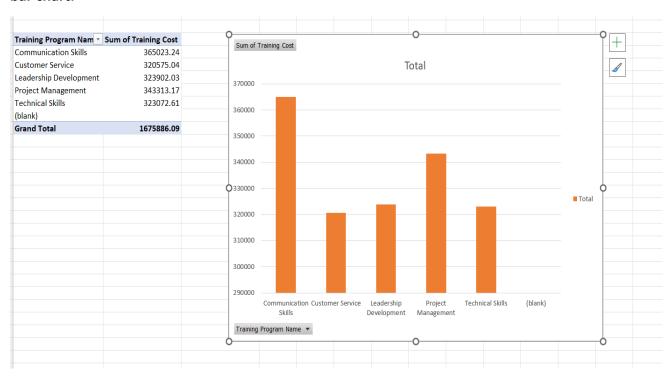
# 12. Create a multi-level pivot table to analyze the "Performance Score" by "BusinessUnit" and "JobFunctionDescription.



## 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.



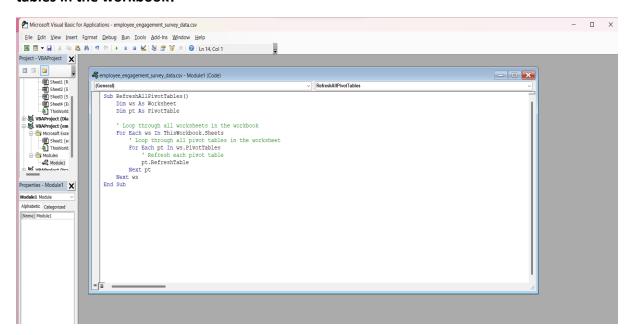
# 15. Apply advanced conditional formatting to highlight the top 10% and bottom 10% of employees based on "Current Employee Rating."

Туре	Division	DOB	State	JobFunctio	GenderCo	LocationC	RaceDesc	MaritalDe	Performance Scor	Current Employee Rati Satisfaction Score	Work-	Life Engagement Score	
	General - I	########	CA	Technician	Female	90007	Hispanic	Divorced	Exceeds	4	1	5	2
	Engineers	########	OR	Engineer	Female	97756	White	Divorced	Fully Meets	2	2	2	4
	Splicing	24-11-198	CO	Splicer	Male	80820	Other	Single	Fully Meets	3	4	3	2
	General - (	17-02-196	TX	Technician	Female	43481	Asian	Widowed	Fully Meets	3	1	4	3
	General - I	18-09-199	CO	Technician	Male	5168	Black	Single	Fully Meets	5	4	3	2
	Field Oper	########	CO	Coordinate	Male	27270	Hispanic	Divorced	Needs Improveme	3	2	1	5
	Shop (Flee	17-06-199	MA	Mechanic	Male	66835	Black	Widowed	Needs Improveme	5	1	2	2
	Project Ma	17-05-196	TX	Technician	Female	96336	Hispanic	Widowed	Fully Meets	2	1	4	5
	Fielders	14-11-199	IN	Engineer	Male	19665	Other	Widowed	Fully Meets	4	5	4	2
	Field Oper	16-01-197	KY	Technician	Female	61457	Asian	Widowed	Fully Meets	5	4	2	2
	General - (	13-11-195	TX	Laborer	Male	93051	Other	Married	Fully Meets	5	5	2	1
	General - I	24-05-196	CA	Coordinate	Female	13249	Hispanic	Married	Fully Meets	2	4	1	3
	Project Ma	#######	ND	Manager	Female	18983	Black	Divorced	Fully Meets	1	4	5	5
	Field Oper	27-10-199	IN	Technician	Male	78938	Black	Married	Exceeds	2	1	3	4
	Field Oper	#######	MA	Foreman	Male	2478	Asian	Divorced	Fully Meets	2	4	4	1
	Catv	19-07-199	MA	Supervisor	Female	2763	Hispanic	Divorced	Fully Meets	2	4	2	2
	Field Oper	26-10-198	MA	Driller	Female	2346	Asian	Divorced	Exceeds	4	3	5	4
	Undergrou	#######	MA	Laborer	Female	2124	Hispanic	Widowed	Fully Meets	1	1	3	4
	Engineers	#######	MA	Engineer	Female	30766	Hispanic	Married	Fully Meets	5	2	5	1
	Billable Co	13-03-196	MA	Engineer	Male	95618	Other	Divorced	Fully Meets	3	3	1	2
	General -	17-03-198	MA	Technician	Male	76278	Asian	Married	Fully Meets	3	2	3	5
	General - I	#######	MA	Specialist	Male	77580	Hispanic	Married	Fully Meets	2	4	2	1
	Field Oper	#######	MA	Foreman	Male	37983	Asian	Married	Fully Meets	3	4	2	4
	Engineers	24-07-196	MA	Engineer	Female	20847	Black	Single	Fully Meets	3	5	3	5
	Project Ma	25-11-196	MA	Technician	Female	95682	Black	Divorced	Fully Meets	3	1	5	4
	Executive	22-05-195	MA	Vp	Male	21624	Asian	Married	Fully Meets	3	5	3	5
	Field Oper	15-08-195	MA	Locator	Female	2667	Other	Widowed	Fully Meets	3	3	3	2
	Field Oper	19-05-195	MA	Laborer	Male	16052	Hispanic	Single	Fully Meets	3	4	3	5
	Splicing	29-12-198	MA	Splicer	Female	45376	Asian	Divorced	Needs Improveme	3	5	5	3
	Finance &	########	MA	Administra	Male	33204	Other	Divorced	Fully Meets	3	1	1	4
	Field Oper	#######	MA	Technician	Male	76198	Hispanic	Widowed	Fully Meets	3	5	4	5
	Wireline C	19-09-195	МΔ	Manager	Female	42113	Δsian	Divorced	Evreeds	3	Δ	1	5

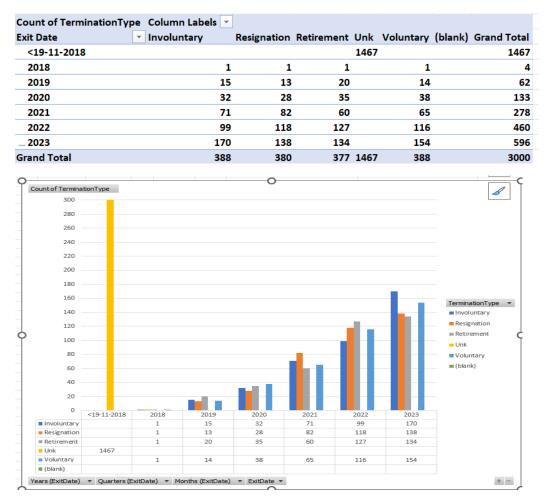
# 16. Use a calculated field in a pivot table to determine the average "Engagement Score" per year.

Years 🔻	Average of Engagement Score
<07-08-2018	
2018	2.917647059
2019	2.933110368
2020	2.967905405
2021	2.95
2022	2.980645161
2023	2.823880597
<b>Grand Total</b>	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.

Ľ	7 v:X <	fx =SUMPRODUCT((F2:F:	100="Port Greg")*(I2:I100))										
	A	В	С	D	Е	F	G	Н	1	J	K	L	
1	Employee ID	Training Date	Training Program Name	Training T	Training O	Location	Trainer	Training D	Training Cost				
2	1001	21-Sep-22	Customer Service	Internal	Failed	Port Greg	Amanda D	4	510.83				
3	1002	19-Jul-23	Leadership Development	Internal	Failed	Brandonvi	Brittany C	1 2	582.37				
4	1003	24-Feb-23	Technical Skills	Internal	Incomplet	Port Brian	Mark Rob	€ 4	777.06				
5	1004	12-Jan-23	Customer Service	Internal	Complete	Knightbord	Richard Fi	s 2	824.3				
6	1005	12-May-23	Communication Skills	External	Passed	Bruceshire	Heather S	ł 4	145.99		Location	Training cost	
7	1006	08-May-23	Project Management	Internal	Failed	Erinfort	Michael D	. 2	838.07		Port Greg	,	510.83
8	1007	14-May-23	Leadership Development	External	Failed	New Chris	Virginia Cl	i 2	667.32		Erinfort		838.07
٥	4000	00.400	T 1 1 16191	F 4 1	1.0		F 1 44	2	750.40				

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

