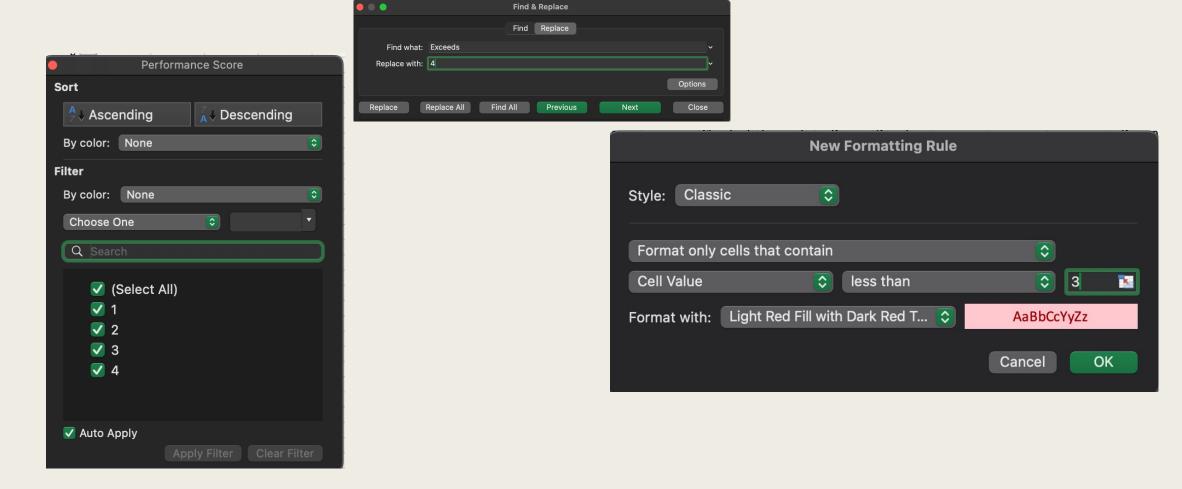
EMPLOYEE DATA ANALYSIS

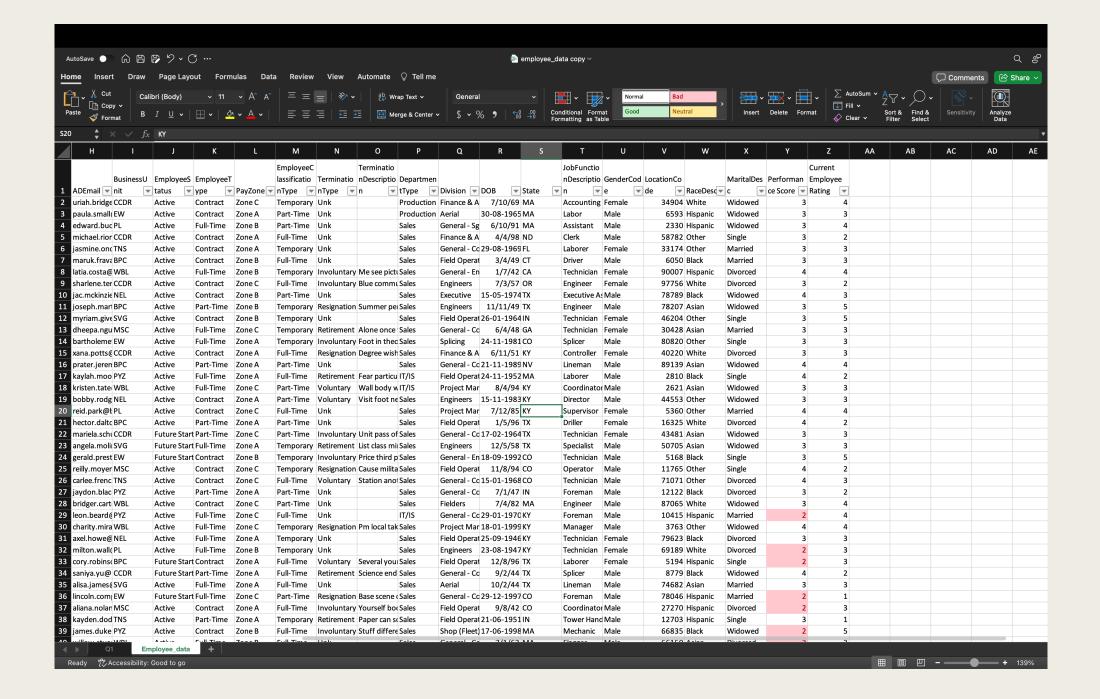
Aditya Dube

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

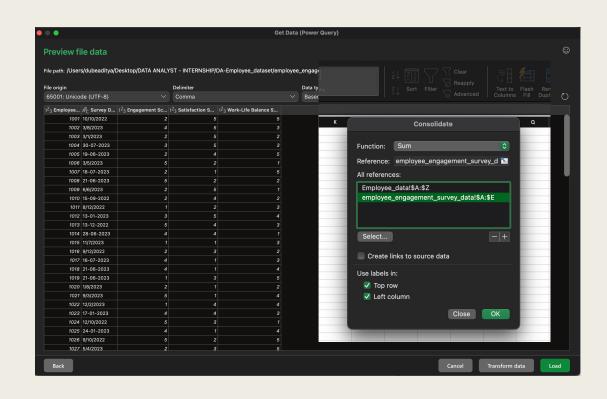
Department -T	Total number of Employees
Admin Offices	80
Executive Office	24
IT/IS	430
Production	2020
Sales	331
Software Engineering	115
Grand Total	3000

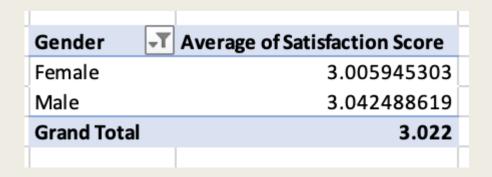
2. Apply conditional formatting to highlight employees with a "Performance Score" below 3 in red.



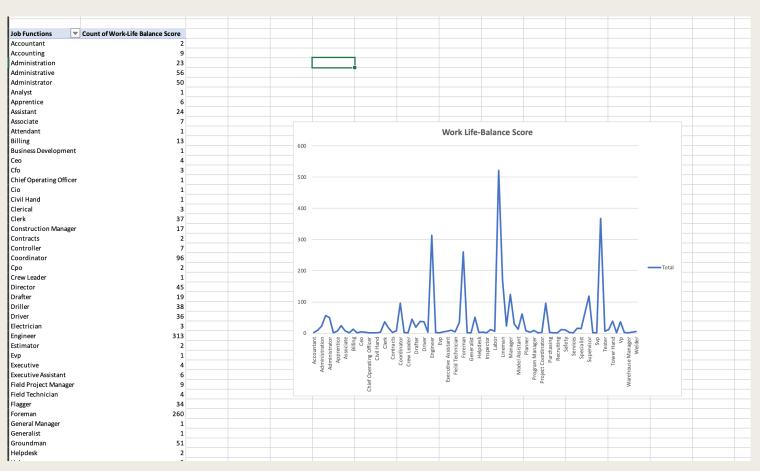


3. Calculate the average "Satisfaction Score" for male and female employees separately using a pivot table.





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."

Termination Type	→▼ Count of Employee ID	
Involuntary	388	
Resignation	380	
Retirement	377	
Unk	1467	
Voluntary	388	
Grand Total	3000	
According to this "l	Jnk" is most common termin	ation type.

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

Department Type 🔻	Average of Engagement Score	
Admin Offices	2.925	
Executive Office	3.375	
IT/IS	3.025581395	
Production	2.906435644	
Sales	2.990936556	
Software Engineering	2.973913043	
Grand Total	2.939666667	

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

=VLOOKUP(@A:A,A1:Z3001,8,FALSE)

	AA	АВ
П		
e		
₩	Using VLOOKUP	
4		
3	paula.small@bilearner.com	
4	edward.buck@bilearner.com	
2	michael.riordan@bilearner.com	
3	jasmine.onque@bilearner.com	
3	maruk.fraval@bilearner.com	
4	latia.costa@bilearner.com	
2	sharlene.terry@bilearner.com	
3	jac.mckinzie@bilearner.com	
5	joseph.martins@bilearner.com	
5	myriam.givens@bilearner.com	
3	dheepa.nguyen@bilearner.com	
3	bartholemew.khemmich@bilear	ner.com
3	xana.potts@bilearner.com	
4	prater.jeremy@bilearner.com	
2	kaylah.moon@bilearner.com	
3	kristen.tate@bilearner.com	
3	bobby.rodgers@bilearner.com	
4	reid.park@bilearner.com	
2	hector.dalton@bilearner.com	
3	mariela.schultz@bilearner.com	
3	angela.molina@bilearner.com	
5	gerald.preston@bilearner.com	
2	reilly.moyer@bilearner.com	
3	carlee.french@bilearner.com	
2	jaydon.blackburn@bilearner.com	
4	bridger.carter@bilearner.com	

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

Department Type 🔻	Average of Current Employee Rating
Admin Offices	3.025
Executive Office	2.791666667
IT/IS	2.969767442
Production	2.982178218
Sales	2.909365559
Software Engineering	2.904347826
Grand Total	2.969

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."

Gender -T	Count of Employee ID
Female	1682
Asian	346
Black	346
Hispanic	325
Other	318
White	347
• Male	1318
Asian	283
Black	272
Hispanic	247
Other	264
White	252
Grand Total	3000

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

=INDEX(C:C,MATCH(J2,A:A,0))

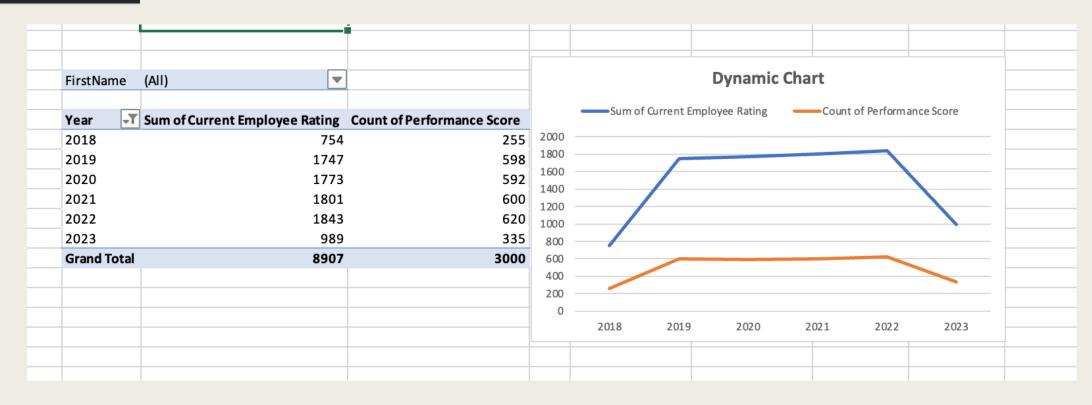
J	К	L	М	N	
Employee Search ID					
100	1		Customer Serv	vice	
100	2		Leadership De	evelopment	
j	0				
	0				
	0				

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

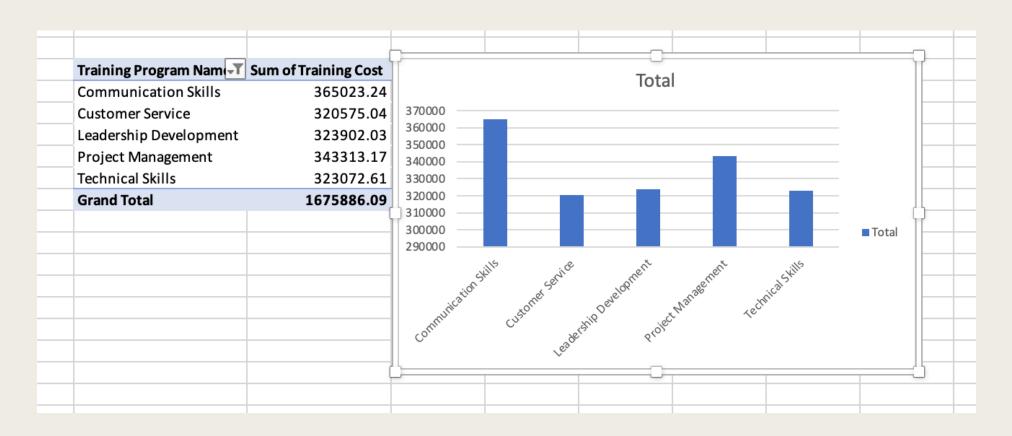
Job Functions	rformance Score
∘ BPC	303
∘ CCDR	300
⊙ EW	302
⊕ MSC	296
⊙ NEL	304
⊙ PL	301
⊕ PYZ	299
⊚ SVG	304
⊕ TNS	297
⊕ WBL	294
Accountant	2
Administration	3
Administrative	7
Administrator	6
Apprentice	1
Billing	2
Civil Hand	1
Clerical	1
Clerk	4
Construction Manager	2
Controller	1
Coordinator	15

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

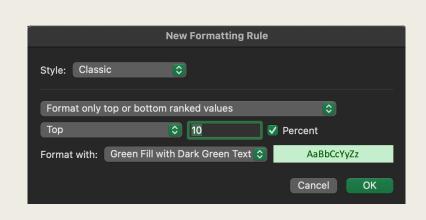
=YEAR(@D:D)

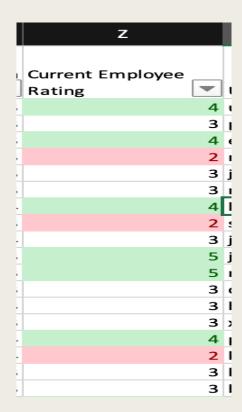


14. Calculate the total training cost for each "Training Program Name" and display it in a bar chart.



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





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

Year	Average of Engagement Score	
2018	2.898039216	
2019	3.065217391	
2020	2.939189189	
2021	2.888333333	
2022	2.943548387	
2023	2.832835821	
Grand Total	2.939666667	

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

Row Labels → T	Count of ExitDate	
© 2018	4	
© 2019	62	
© 2020	133	
© 2021	278	
◎ 2022	460	
© 2023	596	
Involuntary	170	
Resignation	138	
Retirement	134	
Voluntary	154	
Grand Total	1533	

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

Locations	Sum of Training Cost
Aaronboroug	h 841.22
Aaronburgh	633.96
Aaronstad	939.02
Abbottton	609.01
Grand Total	3023.21

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

