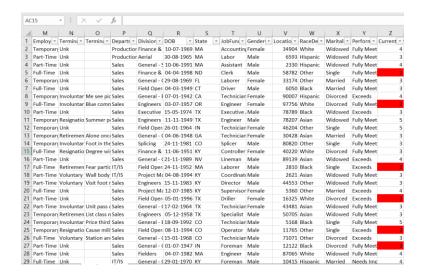
1. Can you create a pivot table to summarize the total number of employees in each department?

Row Labels	Sum of Employee ID
Admin Offices	115863
Executive Office	82789
IT/IS	1219763
Production	4960723
Sales	956182
Software Engineeri	ng 166180
Grand Total	7501500

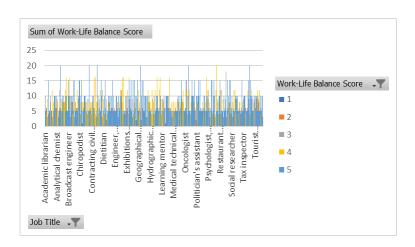
2. Apply conditional formatting to highlight employees with a "Performance Score" below 3 in red.



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

Row Labels	*	Average of Satisfaction Score
Female		3.019648397
Male		3.075728155
Other		2.969092722
Grand Total		3.022

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



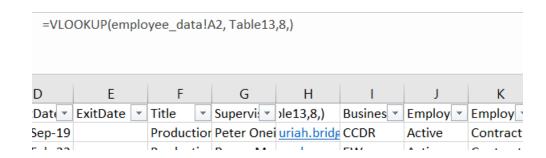
5. Filter the data to display only terminated employees and find out the most common "Termination Type."

Row Labels	Count of TerminationType
Involuntary	388
Resignation	380
Retirement	377
Unk	1467
Voluntary	388
Grand Total	3000

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

Row Labels	Average of Engagement Score
Admin Offices	3.00
Executive Office	2.88
IT/IS	2.93
Production	2.95
Sales	2.88
Software Engineeri	ng 2.92

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	3.03
Executive Office	2.79
IT/IS	2.97
Production	2.98
Sales	2.91
Software Engineeri	ng 2.90

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	Employee ID
⊟ Asian	629
Female	346
Male	283
⊟ Black	618
Female	346
Male	272
⊟ Hispanic	572
Female	325
Male	247
 Other	582
Female	318
Male	264
■ White	599
Female	347
Male	252
Grand Total	3000

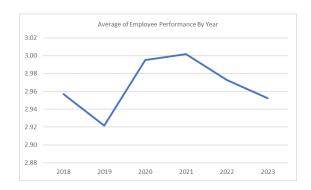
11. Use INDEX and MATCH functions to find the "Training Program Name" for an employee with a specific ID.

=INDEX(training[Training Program Name], MATCH([@[Employee ID]], training[Employee ID], 0)] Employee ID 💌 FirstName 💌 LastName 💌 StartDate 💌 ExitDate 💌 Title ▼ Training Program 3427 Uriah Bridges 20-sep-19 Production Technician I Leadership Development 3428 Paula 11-feb-23 Production Technician I Small Customer Service 3429 Edward Buck 10-dic-18 Area Sales Manager Leadership Development 3430 Michael Riordan 21-jun-21 Area Sales Manager Project Management 3431 Jasmine Onque 29-jun-19 Area Sales Manager Technical Skills 3432 Maruk 17-ene-20 Area Sales Manager Project Management Fraval 06-abr-22 03-jul-23 Area Sales Manager Costa 3433 Latia Customer Service 3434 Sharlene Terry 06-nov-20 29-ene-23 Area Sales Manager Leadership Development 3435 Jac McKinzie 18-ago-18 Area Sales Manager Customer Service 3436 Joseph Martins 21-ene-22 29-jun-23 Area Sales Manager Leadership Development 3437 Myriam Givens 04-ago-23 Area Sales Manager 3438 Dheepa 10-ago-18 04-nov-19 Area Sales Manager Technical Skills Nguyen

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

Business_Unit / Job_Func 🔻 Average of P	erformance Score
BPC	3.00
Administration	3.00
Administrative	3.29
Administrator	3.44
Assistant	3.00
Associate	2.00
Billing	4.00
Ceo	2.00
Cio	3.00
Clerk	3.00
Construction Manager	2.00
Controller	4.00
Coordinator	3.00
Director	2.50
Driller	2.33
Driver	2.75
Electrician	1.00
Engineer	3.12
Executive Assistant	3.00
Field Project Manager	3.00
Flagger	2.00
Foreman	3.17
Groundman	2.75
Helper	3.00
Inspector	3.00
Labor	3.00

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.

Q	R	S	T	U	V	W	X	Υ	Z
Division 🔻	DOB -	State 💌	JobFunc▼	Gender	Locatio 🔻	RaceDe ▼	Marital ▼	Perforn 🔻	Current
Finance &	10-07-1969	MA	Accounting	Female	34904	White	Widowed	Fully Meet	4
Aerial	30-08-1965	MA	Labor	Male	6593	Hispanic	Widowed	Fully Meet	3
General - 9	10-06-1991	MA	Assistant	Male	2330	Hispanic	Widowed	Fully Meet	4
Finance &	04-04-1998	ND	Clerk	Male	58782	Other	Single	Fully Meet	2
General - 0	29-08-1969	FL	Laborer	Female	33174	Other	Married	Fully Meet	3
Field Oper	04-03-1949	CT	Driver	Male	6050	Black	Married	Fully Meet	3
General - E	07-01-1942	CA	Technician	Female	90007	Hispanic	Divorced	Exceeds	4
Engineers	03-07-1957	OR	Engineer	Female	97756	White	Divorced	Fully Meet	2
Executive	15-05-1974	TX	Executive	Male	78789	Black	Widowed	Exceeds	3
Engineers	11-11-1949	TX	Engineer	Male	78207	Asian	Widowed	Fully Meet	5
Field Oper	26-01-1964	IN	Technician	Female	46204	Other	Single	Fully Meet	5
General - 0	04-06-1948	GA	Technician	Female	30428	Asian	Married	Fully Meet	3

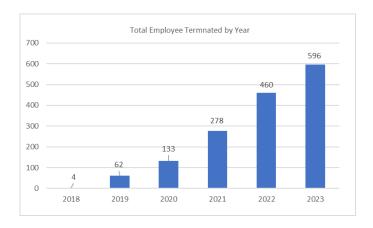
16. Use a calculated field in a pivot table to determine the average "Engagement Score" per year

Row Labels 🕶 Average	of Engagement Score
2022	2.92
2023	2.95
Grand Total	2.94

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

```
| Sub RefreshAllPivotTables()
| Dim ws As Worksheet |
| Dim the As PivotTable |
| 'Loop through each worksheet in the workbook |
| For Each ws In ThisWorkbook.Worksheets |
| 'Loop through each pivot table in the worksheet |
| For Each pt In ws.PivotTables |
| 'Refresh the pivot table |
| pt.RefreshTable |
| Next pt |
| Next ws |
| 'Display a message when all pivot tables are refreshed |
| MsgBox "All pivot tables have been refreshed.", vbInformation |
| End Sub |
```

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.

Row Labels 🗷 S	Sum of Training Cost
East Michael	₹ 2,707.39
Jenniferfurt	₹ 2,764.90
Lake Michael	₹ 2,557.70
New David	₹ 2,415.75
New Eric	₹ 2,549.00
North Rebecca	₹ 2,677.17
Port John	₹ 2,481.91
Smithborough	₹ 2,696.67
Smithchester	₹ 3,105.41
South Jennifer	₹3,349.21

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

