

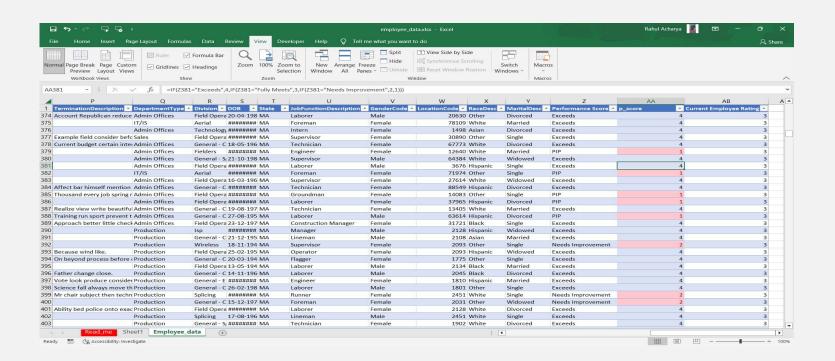
#### **EMPLOYEE DATA ANALYSIS**

By Rahul Acharya

#### CAN YOU CREATE A PIVOT TABLE TO SUMMARIZE THE TOTAL NUMBER OF EMPLOYEES IN EACH DEPARTMENT?

	Departments Admin Offices	Execu	itive Office IT/IS	Proc	duction	Sales	Software	Engineering	Grand Total
Count		80	24	430	2020		331	115	3000

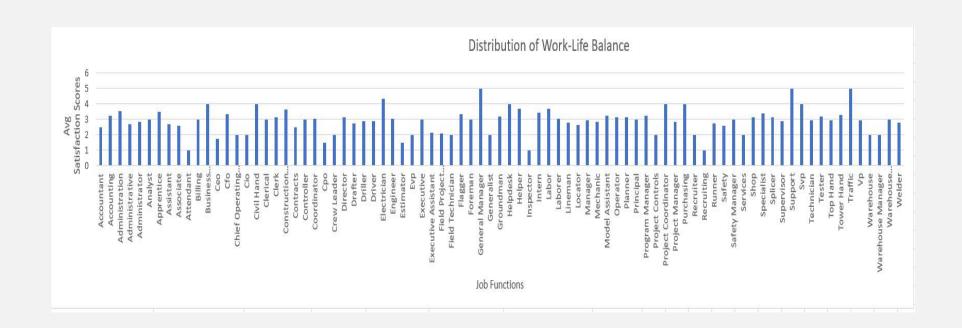
#### APPLY CONDITIONAL FORMATTING TO HIGHLIGHT EMPLOYEES WITH A "PERFORMANCE SCORE" BELOW 3 IN RED.



CALCULATE THE AVERAGE "SATISFACTION SCORE" FOR MALE AND FEMALE EMPLOYEES SEPARATELY USING A PIVOT TABLE.

Row Labels	Ţ	Average of Satisfaction	Score
Female		3.005945303	
Row Labels	<b>.</b> T	Average of Satisfaction	Score
Male		3.042488619	

#### 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."

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
The most common 'Ter	mination Type' among 'Terminated for Cause' is 'Resignation'	
The most common 'Ter	mination Type' among 'Voluntarily Terminated' is 'Involuntary'	

## CALCULATE THE AVERAGE "ENGAGEMENT SCORE" FOR EACH DEPARTMENT USING A PIVOT TABLE

Row Labels	<ul> <li>Average of Engagement Score</li> </ul>				
Admin Offices	2.925				
Executive Office	3.375				
IT/IS	3.025581395				
Production	2.906435644				
Sales	2.990936556				
Software Engineering	2.973913043				

### USE VLOOKUP TO FIND THE SUPERVISOR'S EMAIL ADDRESS FOR A SPECIFIC EMPLOYEE

Employee ID	Application Date	First Name	Last Name	Gender	Date of Birth	Phone Number	Email
1001	03-Jun-2	3 Scott	Sheppard	Male	31-08-1992	421-429-7655x39421	perezjanet@example.org
1002	2 15-May-2	3 Stanley	Lewis	Male	29-04-1965	+1-451-574-5308x168	1 grossmark@example.com
1003	04-Aug-2	3 Javier	Li	Female	10-03-1973	(858)901-5499	katiemaldonado@example.com
1004	28-Jul-2	3 Christopher	Johnston	Other	04-04-2001	(853)681-1839x2010	sheila73@example.com
1005	05-Jun-2	3 Melissa	Hicks	Other	17-06-1978	364-575-8478x67812	emilypatterson@example.org
1006	26-Jul-2	23 Christian	Maddox	Female	14-06-1983	(894)940-2919	pvelasquez@example.net
1007	7 09-Jun-2	3 Paul	Hammond	Female	16-08-1963	*********	# aclayton@example.net
1008	3 15-Jul-2	3 Madison	Williamson	Male	07-09-1978	001-902-992-9557x69	2 jeffreyellis@example.com
Formula	Supervisor's mail id:						
VLOOKUP(A55,recruitment_data.csv!\$A\$1:\$R\$3001,8,0)	pvelasquez@example	.net					

### CAN YOU IDENTIFY THE DEPARTMENT WITH THE HIGHEST AVERAGE "EMPLOYEE RATING?"

Row Labels	<ul> <li>Average of Current Employee Rating</li> </ul>			
Admin Offices	3.025			
Executive Office	2.791666667			
IT/IS	2.969767442			
Production	2.982178218			
Sales	2.909365559			
Software Engineering	2.904347826			

### 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."

RaceDesc	•	GenderCode	~	Count of Employee ID
Asian		Female		346
		Male		283
Asian Total				629
Black		Female		346
		Male		272
Black Total				618
Hispanic		Female		325
		Male		247
Hispanic Total				572
Other		Female		318
-111		Male		264
Other Total				582
White		Female		347
		Male		252
White Total				599
Grand Total				3000

#### USE INDEX AND MATCH FUNCTIONS TO FIND THE "TRAINING PROGRAM NAME" FOR AN EMPLOYEE WITH A SPECIFIC ID.

Employee ID	Trainin	g Date Training Program Training Ty	pe Training Outc	or Location	Trainer	Training Dura Training Cost	
	1001	21-Sep-22 Customer Service Internal	Failed	Port Greg	Amanda Daniels	4 511	
	1002	19-Jul-23 Leadership Develonternal	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 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 Managem Internal	Failed	Erinfort	Michael Duke	2 838	

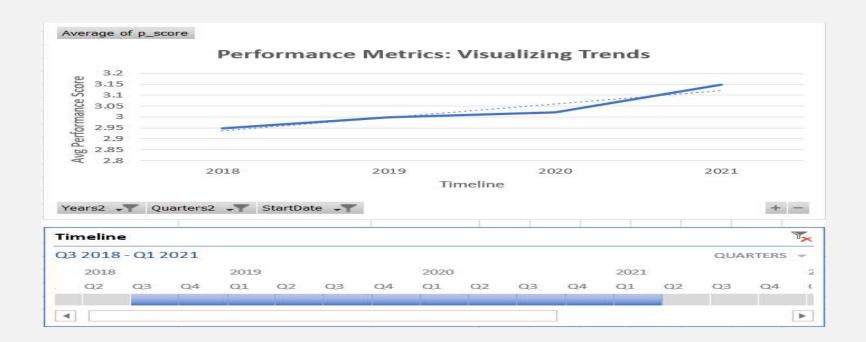
Training Program Name	Formula
	INDEX([training_and_development_data1.xlsx]training_and_development_data!\$A\$1:\$I\$3001, MATCH(\$A\$124,[training_and_development_data1.xlsx]training_and_development_data!\$A\$1:
Technical Skills	\$A\$3001,0),3)

# CREATE A MULTI-LEVEL PIVOT TABLE TO ANALYZE THE "PERFORMANCE SCORE" BY "BUSINESSUNIT" AND "JOBFUNCTIONDESCRIPTION."

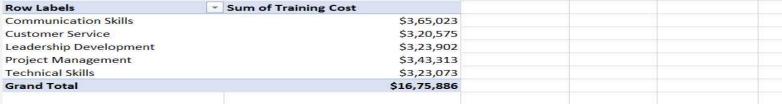
Row Labels	▼ Count of Performance Score	
<b>⊞ BPC</b>		303
⊕ CCDR		300
⊕ EW		302
⊕ MSC		296
⊕ NEL		304
⊕ PL		301
⊕ PYZ		299
⊕SVG		304
⊕ TNS		297
⊕ WBL		294
Grand Total		3000

If you expanded the 'Business Unit' you will see a list of 'JobFunctionDescription' and their 'PerformanceScores'

DESIGN A DYNAMIC CHART THAT ALLOWS USERS TO SELECT AND VISUALIZE THE PERFORMANCE OF ANY EMPLOYEE OVER TIME.

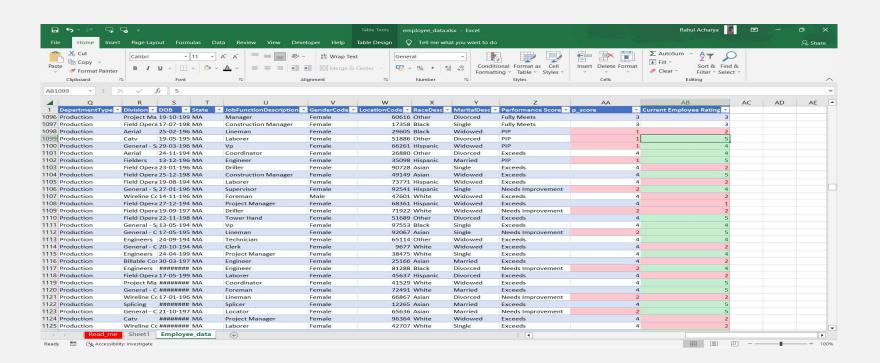


#### CALCULATE THE TOTAL TRAINING COST FOR EACH "TRAINING PROGRAM NAME" AND DISPLAY IT IN A BAR CHART.





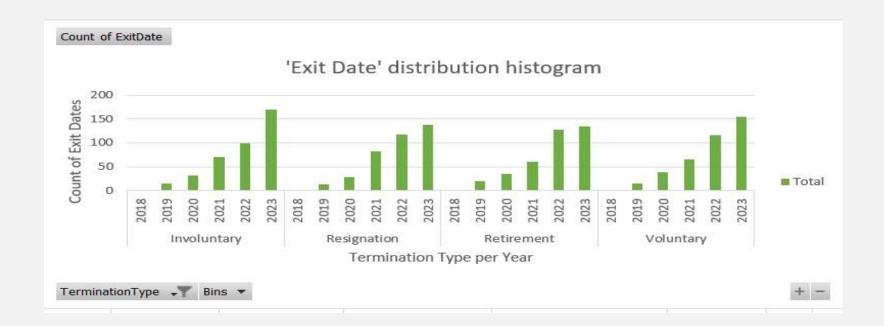
APPLY ADVANCED CONDITIONAL FORMATTING TO HIGHLIGHT THE TOP 10% AND BOTTOM 10% OF EMPLOYEES BASED ON "CURRENT EMPLOYEE RATING."



USE A CALCULATED FIELD IN A PIVOT TABLE TO DETERMINE THE AVERAGE "ENGAGEMENT SCORE" PER YEAR..

Row Labels	<ul> <li>Average of Engagement Score</li> </ul>
<b>□ 2022</b>	2.918281382
Qtr3	2.96347032
Qtr4	2.891855808
<b>□ 2023</b>	2.953667954
Qtr1	2.902216428
Qtr2	3.013679891
Qtr3	2.93968254
Grand Total	2.939666667

CREATE A HISTOGRAM TO UNDERSTAND THE DISTRIBUTION OF "EXITDATE" FOR TERMINATED EMPLOYEES.



UTILIZE THE SUMPRODUCT FUNCTION TO CALCULATE THE TOTAL TRAINING COST FOR EMPLOYEES IN A SPECIFIC LOCATION.

SumProduct for "Port Greg"	Formula
	SUMPRODUCT(([training_and_development_data1.xlsx]training_and_development_data!\$F\$2:\$F\$3001="Port
510.8	83 Greg")*([training_and_development_data1.xlsx]training_and_development_data!\$ \$2:\$ \$3001))

DEVELOP A DASHBOARD THAT PROVIDES AN OVERVIEW OF KEY HR METRICS, INCLUDING HEADCOUNT, PERFORMANCE, AND TRAINING COSTS, USING CHARTS AND PIVOT TABLES.

