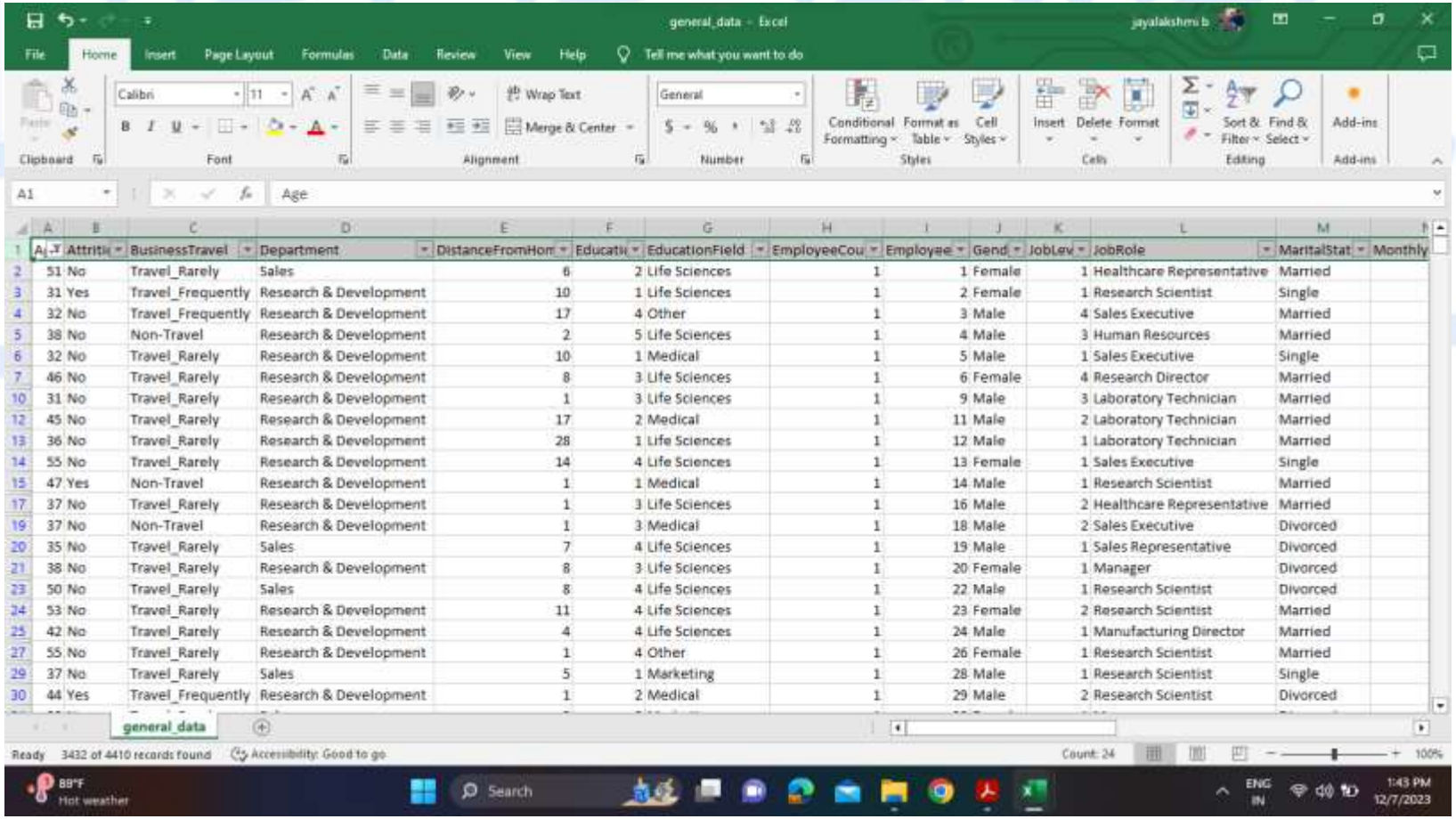
PROJECT 3 HR DATA ANALYSIS

Using Excel, how would you filter the dataset to only show employees aged 30 and above?

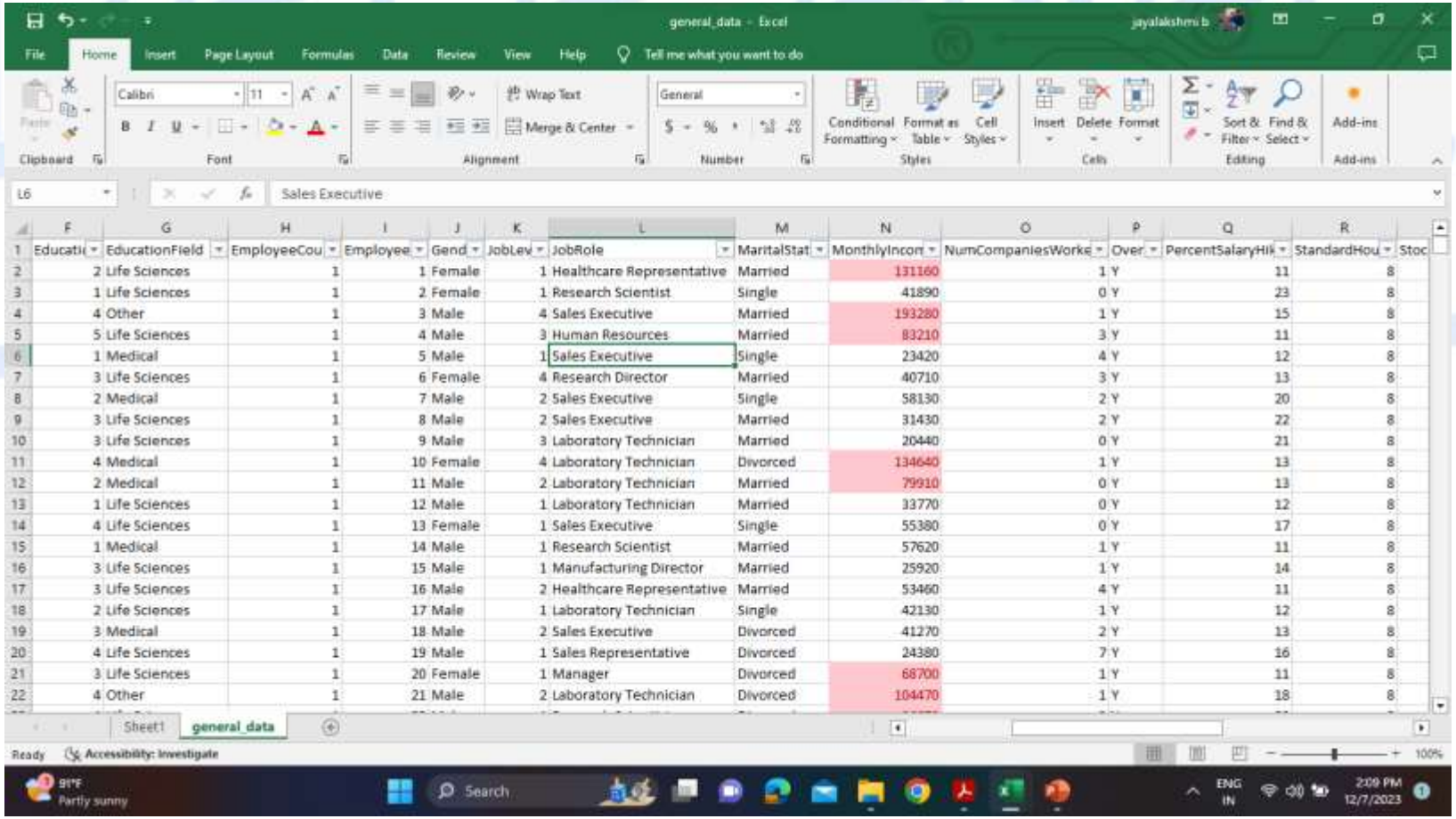


A	Attriti	BusinessTravel	Department	DistanceFromHom	Educatio	EducationField	EmployeeCou	Employee	Gend	JobLev	JobRole	MaritalStat	Monthly
51	No	Travel_Rarely	Sales	6	2	Life Sciences	1	1	Female	1	Healthcare Representative	Married	
31	Yes	Travel_Frequently	Research & Development	10	1	Life Sciences	1	2	Female	1	Research Scientist	Single	
32	No	Travel_Frequently	Research & Development	17	4	Other	1	3	Male	4	Sales Executive	Married	
38	No	Non-Travel	Research & Development	2	5	Life Sciences	1	4	Male	3	Human Resources	Married	
32	No	Travel_Rarely	Research & Development	10	1	Medical	1	5	Male	1	Sales Executive	Single	
46	No	Travel_Rarely	Research & Development	8	3	Life Sciences	1	6	Female	4	Research Director	Married	
31	No	Travel_Rarely	Research & Development	1	3	Life Sciences	1	9	Male	3	Laboratory Technician	Married	
45	No	Travel_Rarely	Research & Development	17	2	Medical	1	11	Male	2	Laboratory Technician	Married	
36	No	Travel_Rarely	Research & Development	28	1	Life Sciences	1	12	Male	1	Laboratory Technician	Married	
55	No	Travel_Rarely	Research & Development	14	4	Life Sciences	1	13	Female	1	Sales Executive	Single	
47	Yes	Non-Travel	Research & Development	1	1	Medical	1	14	Male	1	Research Scientist	Married	
37	No	Travel_Rarely	Research & Development	1	3	Life Sciences	1	16	Male	2	Healthcare Representative	Married	
37	No	Non-Travel	Research & Development	1	3	Medical	1	18	Male	2	Sales Executive	Divorced	
35	No	Travel_Rarely	Sales	7	4	Life Sciences	1	19	Male	1	Sales Representative	Divorced	
38	No	Travel_Rarely	Research & Development	8	3	Life Sciences	1	20	Female	1	Manager	Divorced	
50	No	Travel_Rarely	Sales	8	4	Life Sciences	1	22	Male	1	Research Scientist	Divorced	
53	No	Travel_Rarely	Research & Development	11	4	Life Sciences	1	23	Female	2	Research Scientist	Married	
42	No	Travel_Rarely	Research & Development	4	4	Life Sciences	1	24	Male	1	Manufacturing Director	Married	
55	No	Travel_Rarely	Research & Development	1	4	Other	1	26	Female	1	Research Scientist	Married	
37	No	Travel_Rarely	Sales	5	1	Marketing	1	28	Male	1	Research Scientist	Single	
44	Yes	Travel_Frequently	Research & Development	1	2	Medical	1	29	Male	2	Research Scientist	Divorced	

Create a pivot table to summarize the average Monthly Income by Job Role.

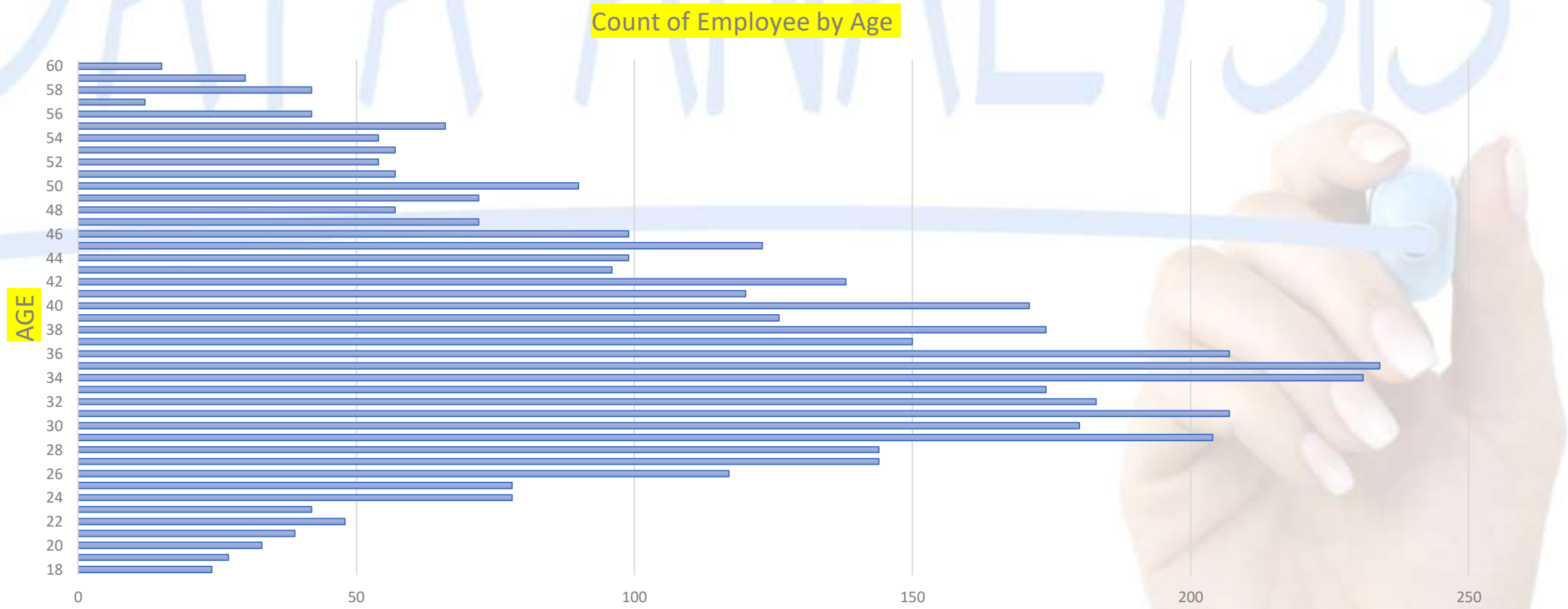
Job Role	Average of Monthly Income
Healthcare Representative	60984
Human Resources	58528
Laboratory Technician	66314
Manager	63396
Manufacturing Director	69184
Research Director	65473
Research Scientist	64976
Sales Executive	65187
Sales Representative	65371
Grand Total	65029

Apply conditional formatting to highlight employees with Monthly Income above the company's average income.



	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Educati	EducationField	EmployeeCou	Employee	Gend	JobLev	JobRole	MaritalStat	MonthlyIncom	NumCompaniesWorke	Over	PercentSalaryHik	StandardHou	Stoc
2	2	Life Sciences	1	1	Female	1	Healthcare Representative	Married	131160	1	Y	11	8	
3	1	Life Sciences	1	2	Female	1	Research Scientist	Single	41890	0	Y	23	8	
4	4	Other	1	3	Male	4	Sales Executive	Married	193280	1	Y	15	8	
5	5	Life Sciences	1	4	Male	3	Human Resources	Married	83210	3	Y	11	8	
6	1	Medical	1	5	Male	1	Sales Executive	Single	23420	4	Y	12	8	
7	3	Life Sciences	1	6	Female	4	Research Director	Married	40710	3	Y	13	8	
8	2	Medical	1	7	Male	2	Sales Executive	Single	58130	2	Y	20	8	
9	3	Life Sciences	1	8	Male	2	Sales Executive	Married	31430	2	Y	22	8	
10	3	Life Sciences	1	9	Male	3	Laboratory Technician	Married	20440	0	Y	21	8	
11	4	Medical	1	10	Female	4	Laboratory Technician	Divorced	134640	1	Y	13	8	
12	2	Medical	1	11	Male	2	Laboratory Technician	Married	79910	0	Y	13	8	
13	1	Life Sciences	1	12	Male	1	Laboratory Technician	Married	33770	0	Y	12	8	
14	4	Life Sciences	1	13	Female	1	Sales Executive	Single	55380	0	Y	17	8	
15	1	Medical	1	14	Male	1	Research Scientist	Married	57620	1	Y	11	8	
16	3	Life Sciences	1	15	Male	1	Manufacturing Director	Married	25920	1	Y	14	8	
17	3	Life Sciences	1	16	Male	2	Healthcare Representative	Married	53460	4	Y	11	8	
18	2	Life Sciences	1	17	Male	1	Laboratory Technician	Single	42130	1	Y	12	8	
19	3	Medical	1	18	Male	2	Sales Executive	Divorced	41270	2	Y	13	8	
20	4	Life Sciences	1	19	Male	1	Sales Representative	Divorced	24380	7	Y	16	8	
21	3	Life Sciences	1	20	Female	1	Manager	Divorced	68700	1	Y	11	8	
22	4	Other	1	21	Male	2	Laboratory Technician	Divorced	104470	1	Y	18	8	

Create a bar chart in Excel to visualize the distribution of employee ages.



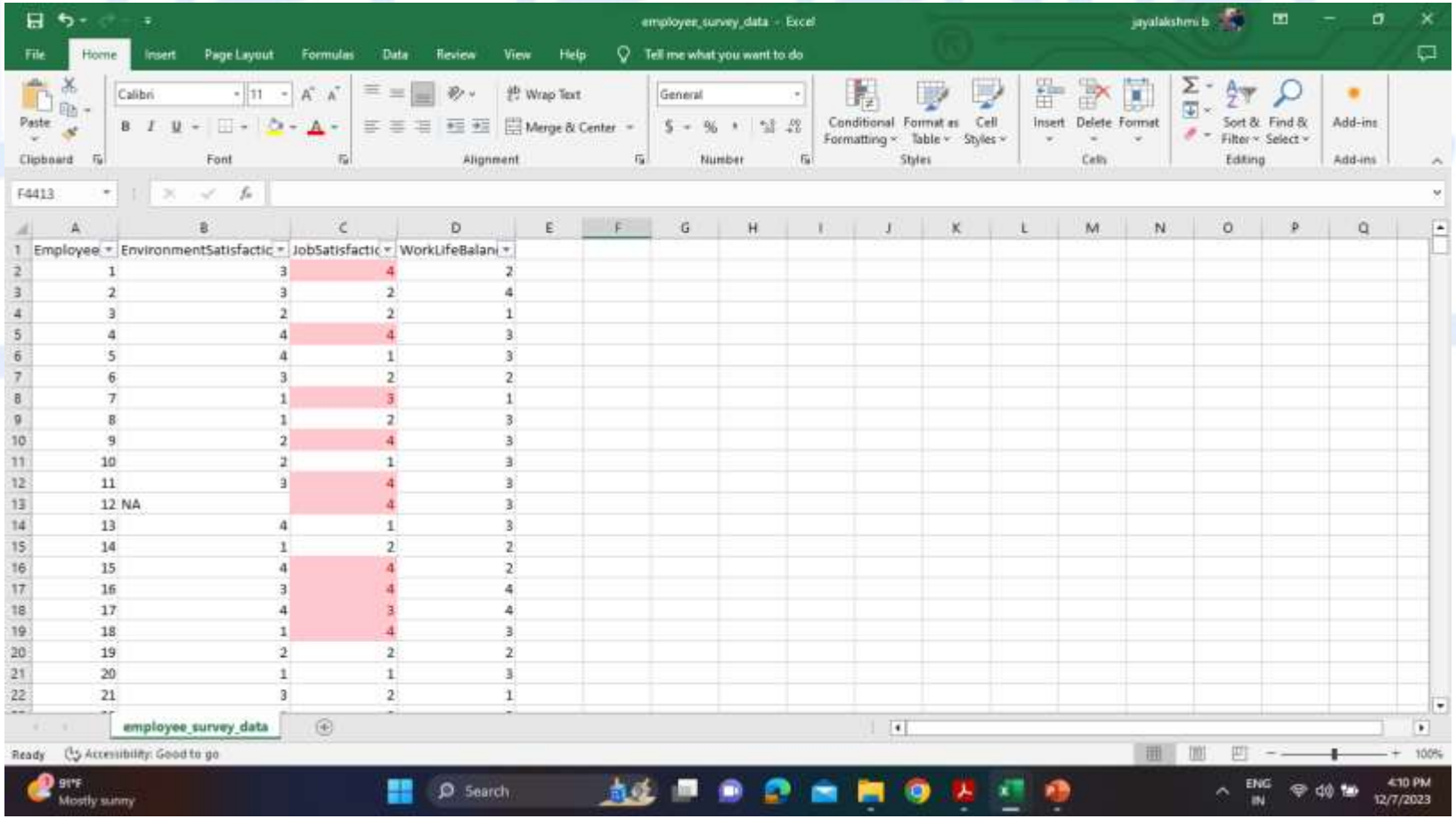
Identify and clean any missing or inconsistent data in the "Department" column.

- There’s no missing or inconsistent data in the “Department” column.

Using Excel, create a pivot table that displays the count of employees in each Marital Status category, segmented by Department.

Count of Employee	Marital Status		
Department	Divorced	Married	Single
Human Resources	21	96	72
Research & Development	621	1350	912
Sales	339	573	426

Apply conditional formatting to highlight employees with both above-average Monthly Income and above-average Job Satisfaction.



	A	B	C	D
1	Employee	EnvironmentSatisfactic	JobSatisfactic	WorkLifeBalan
2	1	3	4	2
3	2	3	2	4
4	3	2	2	1
5	4	4	4	3
6	5	4	1	3
7	6	3	2	2
8	7	1	3	1
9	8	1	2	3
10	9	2	4	3
11	10	2	1	3
12	11	3	4	3
13	12	NA	4	3
14	13	4	1	3
15	14	1	2	2
16	15	4	4	2
17	16	3	4	4
18	17	4	3	4
19	18	1	4	3
20	19	2	2	2
21	20	1	1	3
22	21	3	2	1

In Excel, calculate the total Monthly Income for each Department, considering only the employees with a Job Level greater than or equal to 3.

Total Monthly Income	Job Level greater than or equal to 3	
Department	No	Yes
Human Resources	7684800	3259140
Research & Development	140199990	53502900
Sales	59158110	22974330

POWER BI DASHBOARD