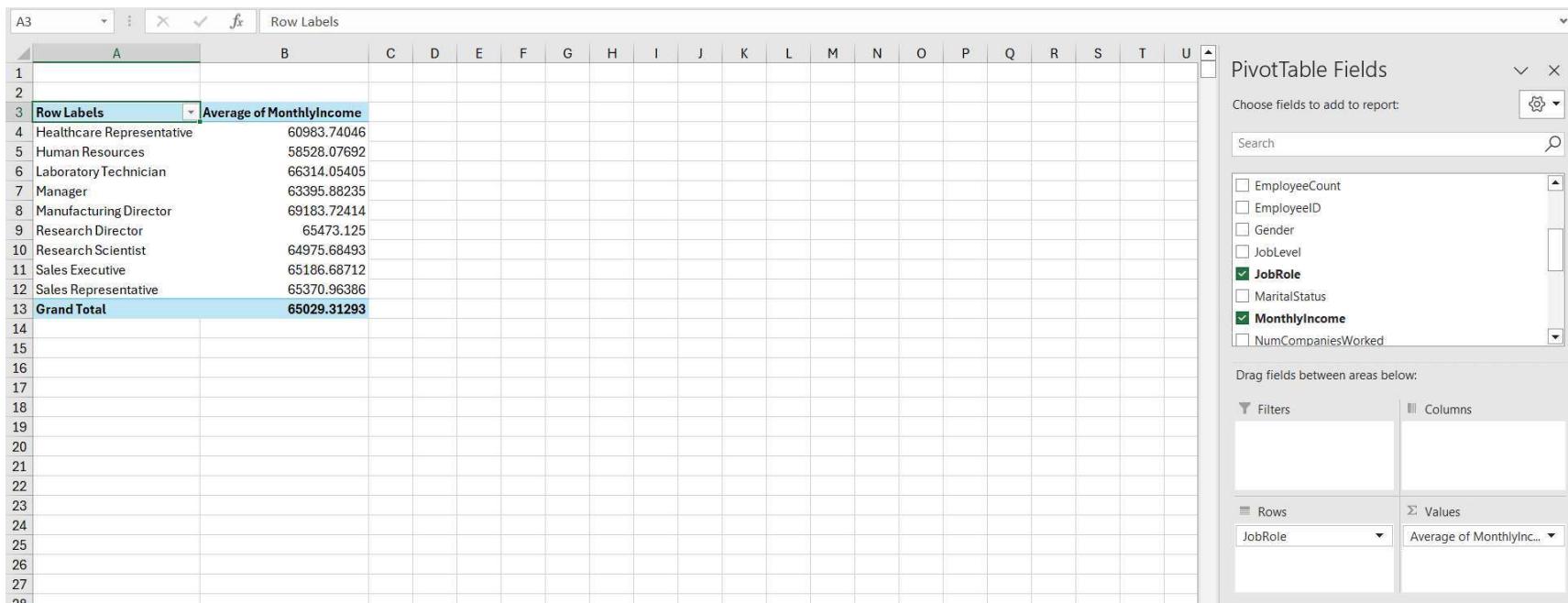


- Using Excel, how would you filter the dataset to only show employees aged 30 and above?

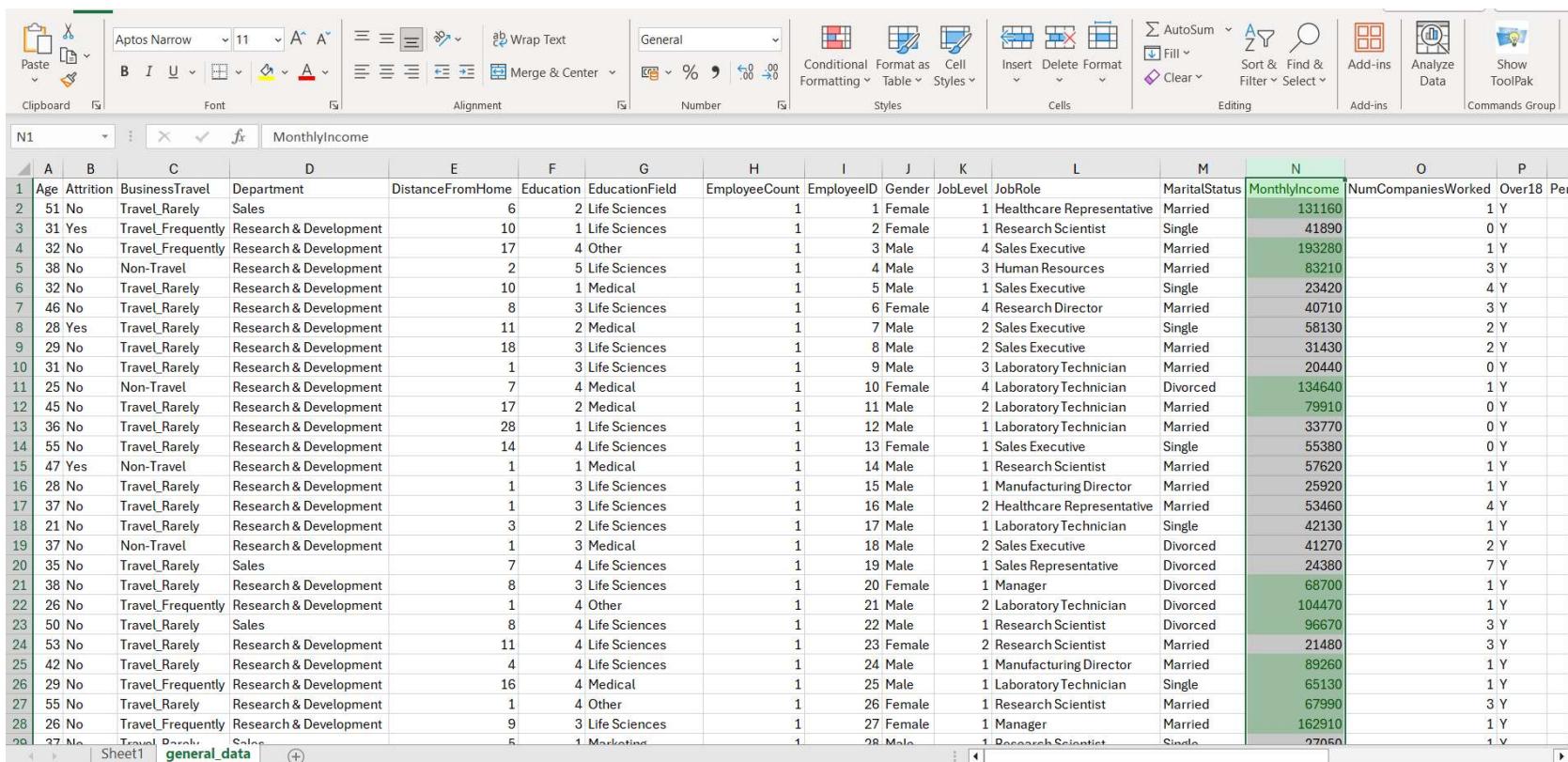
The screenshot shows a Microsoft Excel spreadsheet titled "general\_data - Read-Only". The "Age" column is selected in the first row. The Excel ribbon is visible at the top, and the formula bar shows "Age". The status bar at the bottom indicates "Ready" with 3432 of 4410 records found.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W		
1	Age	Attrition	BusinessTravel	Department	DistanceFromHome	Education	EducationField	EmployeeCount	EmployeeID	Gender	JobLevel	JobRole	MaritalStatus	MonthlyIncome	NumCompaniesWorked	Over18	PercentSalaryHike	StandardHours	StockOptions	TotalWorkingYears	TrainingTimesLastYear	YearsAtCompany	YearsSinceLastPromotion	YearsWithCurrentManager
2	51	No	Travel_Rarely	Sales	6	2	Life Sciences	1	1	Female	1	Healthcare Rep	Married	131160	1	Y	11	8	0	1	6	1	0	
3	31	Yes	Travel_Frequently	Research & Development	10	1	Life Sciences	1	2	Female	1	Research & Development	Single	41890	0	Y	23	8	1	6	3	5	1	
4	32	No	Travel_Frequently	Research & Development	17	4	Other	1	3	Male	4	Sales Exec	Married	193280	1	Y	15	8	3	5	2	5	0	
5	38	No	Non-Travel	Research & Development	2	5	Life Sciences	1	4	Male	3	Human Resources	Married	83210	3	Y	11	8	3	13	5	8	7	
6	32	No	Travel_Rarely	Research & Development	10	1	Medical	1	5	Male	1	Sales Exec	Single	23420	4	Y	12	8	2	9	2	6	0	
7	46	No	Travel_Rarely	Research & Development	8	3	Life Sciences	1	6	Female	4	Research & Development	Married	40710	3	Y	13	8	0	28	5	7	7	
10	31	No	Travel_Rarely	Research & Development	1	3	Life Sciences	1	9	Male	3	Laboratory Technician	Married	20440	0	Y	21	8	0	10	2	9	7	
12	45	No	Travel_Rarely	Research & Development	17	2	Medical	1	11	Male	2	Laboratory Technician	Married	79910	0	Y	13	8	2	21	2	20	4	
13	36	No	Travel_Rarely	Research & Development	28	1	Life Sciences	1	12	Male	1	Laboratory Technician	Married	33770	0	Y	12	8	2	16	2	15	10	
14	55	No	Travel_Rarely	Research & Development	14	4	Life Sciences	1	13	Female	1	Sales Exec	Single	55380	0	Y	17	8	0	37	2	36	4	
15	47	Yes	Non-Travel	Research & Development	1	1	Medical	1	14	Male	1	Research & Development	Married	57620	1	Y	11	8	2	10	4	10	9	
17	37	No	Travel_Rarely	Research & Development	1	3	Life Sciences	1	16	Male	2	Healthcare Rep	Married	53460	4	Y	11	8	0	7	2	5	0	
19	37	No	Non-Travel	Research & Development	1	3	Medical	1	18	Male	2	Sales Exec	Divorced	41270	2	Y	13	8	1	15	2	5	0	
20	35	No	Travel_Rarely	Sales	7	4	Life Sciences	1	19	Male	1	Sales Exec	Divorced	24380	7	Y	16	8	0	10	5	7	6	
21	38	No	Travel_Rarely	Research & Development	8	3	Life Sciences	1	20	Female	1	Manager	Divorced	68700	1	Y	11	8	1	8	5	8	7	
23	50	No	Travel_Rarely	Sales	8	4	Life Sciences	1	22	Male	1	Research & Development	Divorced	96670	3	Y	23	8	0	28	2	10	1	
24	53	No	Travel_Rarely	Research & Development	11	4	Life Sciences	1	23	Female	2	Research & Development	Married	21480	3	Y	11	8	0	21	2	5	1	
25	42	No	Travel_Rarely	Research & Development	4	4	Life Sciences	1	24	Male	1	Manufacturing Rep	Married	89260	1	Y	14	8	0	NA	4	20	11	
27	55	No	Travel_Rarely	Research & Development	1	4	Other	1	26	Female	1	Research & Development	Married	67990	3	Y	11	8	0	12	2	10	0	
29	37	No	Travel_Rarely	Sales	5	1	Marketing	1	28	Male	1	Research & Development	Single	27050	1	Y	11	8	0	17	2	17	5	
30	44	Yes	Travel_Frequently	Research & Development	1	2	Medical	1	29	Male	2	Research & Development	Divorced	103330	3	Y	14	8	1	19	2	1	0	
31	38	No	Travel_Rarely	Sales	2	3	Marketing	1	30	Female	1	Manager	Divorced	44480	9	Y	12	8	0	10	3	2	1	
34	49	No	Travel_Frequently	Research & Development	1	1	Medical	1	33	Female	2	Research & Development	Single	35910	9	Y	13	8	0	22	2	3	1	
35	36	No	Travel_Rarely	Sales	5	3	Technical	1	34	Male	3	Sales Exec	Single	54050	4	Y	14	8	0	10	2	8	7	
36	31	No	Travel_Frequently	Research & Development	9	4	Medical	1	35	Male	1	Sales Exec	Divorced	46840	1	Y	16	8	1	2	4	2	2	
38	37	No	Travel_Frequently	Sales	9	1	Marketing	1	37	Male	1	Laboratory Technician	Married	15140	1	Y	14	8	0	4	3	4	1	
39	42	No	Travel_Frequently	Sales	2	2	Marketing	1	38	Male	3	Research & Development	Married	29560	5	Y	13	8	0	23	2	20	4	
41	No	Travel_Rarely	Sales	20	2	Life Sciences	1	40	Male	1	Laboratory Technician	Married	51540	0	Y	10	8	0	12	2	11	6		

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



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

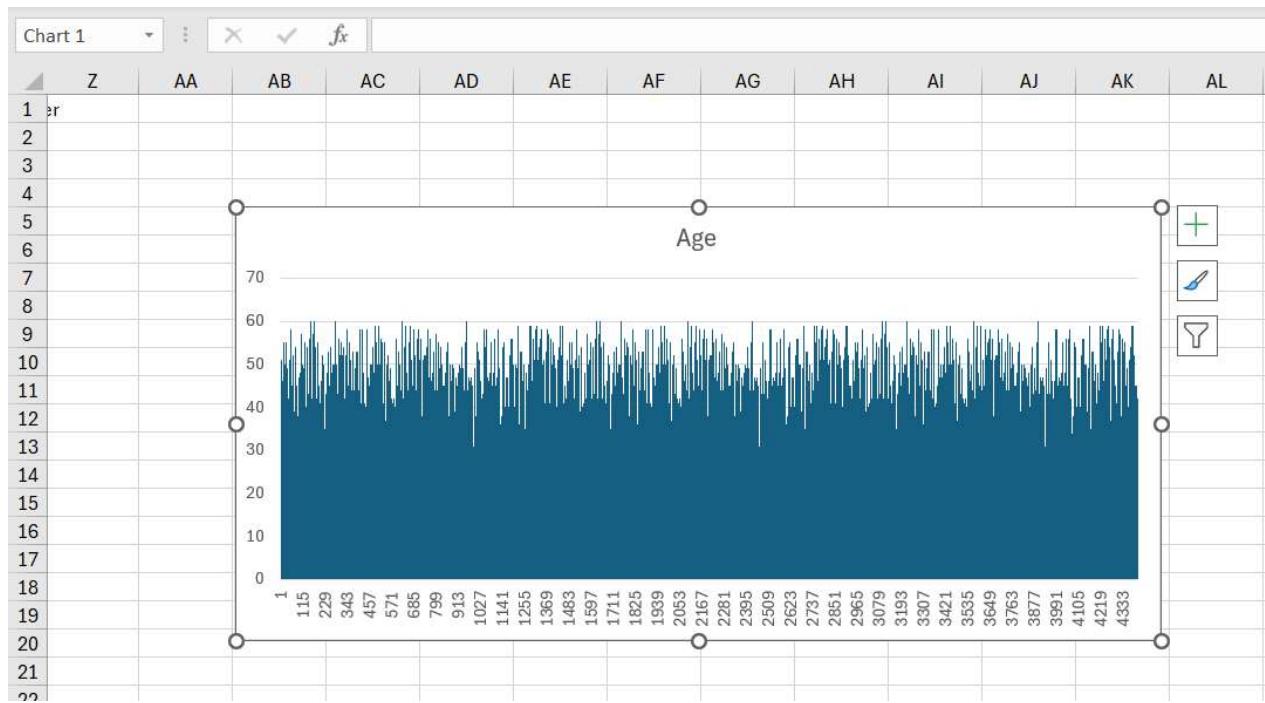


The screenshot shows a Microsoft Excel spreadsheet titled "MonthlyIncome". The data is organized into several columns:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Age	Attrition	BusinessTravel	Department	DistanceFromHome	Education	EducationField	EmployeeCount	EmployeeID	Gender	JobLevel	JobRole	MaritalStatus	MonthlyIncome	NumCompaniesWorked	Over18
2	51	No	Travel_Rarely	Sales		6	2 Life Sciences		1	1 Female	1	Healthcare Representative	Married	131160		1 Y
3	31	Yes	Travel_Frequently	Research & Development		10	1 Life Sciences		1	2 Female	1	Research Scientist	Single	41890		0 Y
4	32	No	Travel_Frequently	Research & Development		17	4 Other		1	3 Male	4	Sales Executive	Married	193280		1 Y
5	38	No	Non-Travel	Research & Development		2	5 Life Sciences		1	4 Male	3	Human Resources	Married	83210		3 Y
6	32	No	Travel_Rarely	Research & Development		10	1 Medical		1	5 Male	1	Sales Executive	Single	23420		4 Y
7	46	No	Travel_Rarely	Research & Development		8	3 Life Sciences		1	6 Female	4	Research Director	Married	40710		3 Y
8	28	Yes	Travel_Rarely	Research & Development		11	2 Medical		1	7 Male	2	Sales Executive	Single	58130		2 Y
9	29	No	Travel_Rarely	Research & Development		18	3 Life Sciences		1	8 Male	2	Sales Executive	Married	31430		2 Y
10	31	No	Travel_Rarely	Research & Development		1	3 Life Sciences		1	9 Male	3	Laboratory Technician	Married	20440		0 Y
11	25	No	Non-Travel	Research & Development		7	4 Medical		1	10 Female	4	Laboratory Technician	Divorced	134640		1 Y
12	45	No	Travel_Rarely	Research & Development		17	2 Medical		1	11 Male	2	Laboratory Technician	Married	79910		0 Y
13	36	No	Travel_Rarely	Research & Development		28	1 Life Sciences		1	12 Male	1	Laboratory Technician	Married	33770		0 Y
14	55	No	Travel_Rarely	Research & Development		14	4 Life Sciences		1	13 Female	1	Sales Executive	Single	55380		0 Y
15	47	Yes	Non-Travel	Research & Development		1	1 Medical		1	14 Male	1	Research Scientist	Married	57620		1 Y
16	28	No	Travel_Rarely	Research & Development		1	3 Life Sciences		1	15 Male	1	Manufacturing Director	Married	25920		1 Y
17	37	No	Travel_Rarely	Research & Development		1	3 Life Sciences		1	16 Male	2	Healthcare Representative	Married	53460		4 Y
18	21	No	Travel_Rarely	Research & Development		3	2 Life Sciences		1	17 Male	1	Laboratory Technician	Single	42130		1 Y
19	37	No	Non-Travel	Research & Development		1	3 Medical		1	18 Male	2	Sales Executive	Divorced	41270		2 Y
20	35	No	Travel_Rarely	Sales		7	4 Life Sciences		1	19 Male	1	Sales Representative	Divorced	24380		7 Y
21	38	No	Travel_Rarely	Research & Development		8	3 Life Sciences		1	20 Female	1	Manager	Divorced	68700		1 Y
22	26	No	Travel_Frequently	Research & Development		1	4 Other		1	21 Male	2	Laboratory Technician	Divorced	104470		1 Y
23	50	No	Travel_Rarely	Sales		8	4 Life Sciences		1	22 Male	1	Research Scientist	Divorced	96670		3 Y
24	53	No	Travel_Rarely	Research & Development		11	4 Life Sciences		1	23 Female	2	Research Scientist	Married	21480		3 Y
25	42	No	Travel_Rarely	Research & Development		4	4 Life Sciences		1	24 Male	1	Manufacturing Director	Married	89260		1 Y
26	29	No	Travel_Frequently	Research & Development		16	4 Medical		1	25 Male	1	Laboratory Technician	Single	65130		1 Y
27	55	No	Travel_Rarely	Research & Development		1	4 Other		1	26 Female	1	Research Scientist	Married	67990		3 Y
28	26	No	Travel_Frequently	Research & Development		9	3 Life Sciences		1	27 Female	1	Manager	Married	162910		1 Y
29	37	No	Travel_Rarely	Sales		5	1 Marketing		1	28 Male	1	Research Scientist	Single	27050		1 Y

The "MonthlyIncome" column contains numerical values representing employee monthly incomes. The "general\_data" sheet tab is visible at the bottom left.

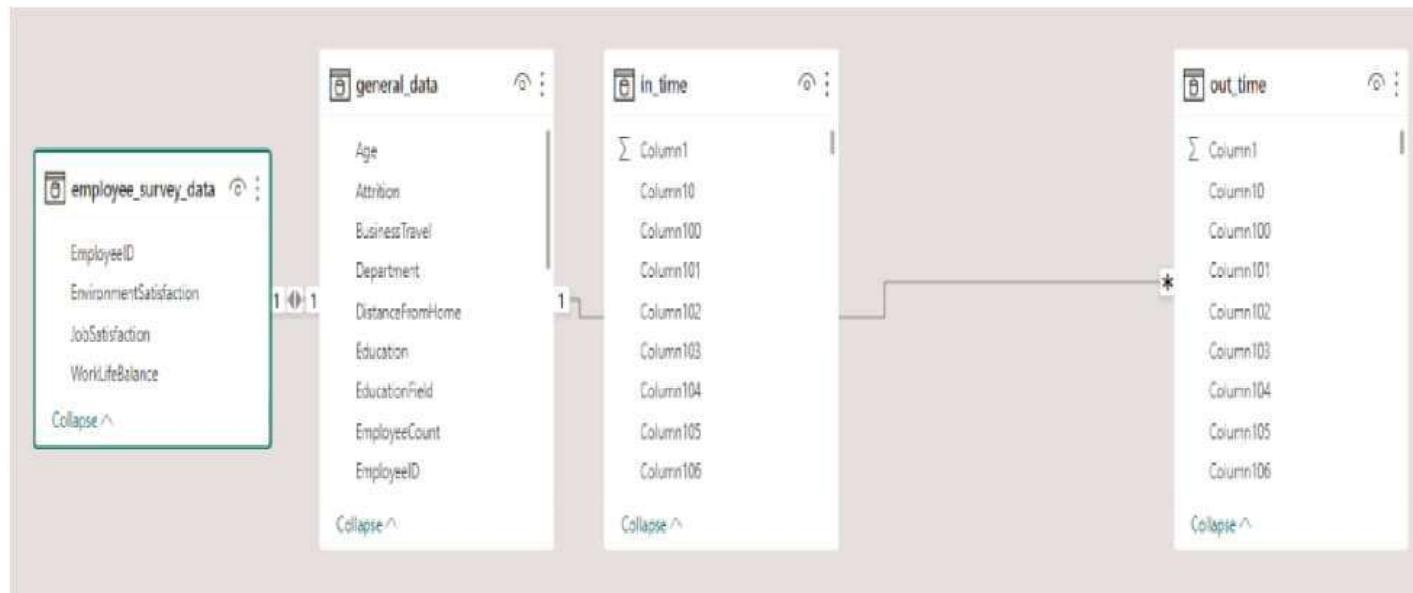
- Create a bar chart in Excel to visualize the distribution of employee ages.



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

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Age	Attrition	BusinessTravel	Department	DistanceFromHome	Education	EducationField	EmployeeCount	EmployeeID	Gender	JobLevel	JobRole	MaritalStatus	MonthlyIncome	NumCompaniesWorked	Over18	PercentSalaryHike	StandardHours	StockOptionLevel	TotalWorkingYears
2	51	No	Travel_Rarely	Sales	6	2	Life Sciences	1	1	Female	1	Healthcare Rep.	Married	131160	1	Y	11	8	0	0
3	31	Yes	Travel_Frequent	Research & Development	10	1	Life Sciences	1	2	Female	1	Research & Dev.	Single	41890	0	Y	23	8	1	1
4	32	No	Travel_Frequent	Research & Development	17	4	Other	1	3	Male	4	Sales Executive	Married	193280	1	Y	15	8	3	3
5	38	No	Non-Traveler	Research & Development	2	5	Life Sciences	1	4	Male	3	Human Resources	Married	83210	3	Y	11	8	3	3
6	32	No	Travel_Rarely	Research & Development	10	1	Medical	1	5	Male	1	Sales Executive	Single	23420	4	Y	12	8	2	2
7	46	No	Travel_Rarely	Research & Development	8	3	Life Sciences	1	6	Female	4	Research Scientist	Married	40710	3	Y	13	8	0	0
8	28	Yes	Travel_Rarely	Research & Development	11	2	Medical	1	7	Male	2	Sales Executive	Single	58130	2	Y	20	8	1	1
9	29	No	Travel_Rarely	Research & Development	18	3	Life Sciences	1	8	Male	2	Sales Executive	Married	31430	2	Y	22	8	3	3
10	31	No	Travel_Rarely	Research & Development	1	3	Life Sciences	1	9	Male	3	Laboratory Technician	Married	20440	0	Y	21	8	0	0
11	25	No	Non-Traveler	Research & Development	7	4	Medical	1	10	Female	4	Laboratory Technician	Divorced	134640	1	Y	13	8	1	1
12	45	No	Travel_Rarely	Research & Development	17	2	Medical	1	11	Male	2	Laboratory Technician	Married	79910	0	Y	13	8	2	2
13	36	No	Travel_Rarely	Research & Development	28	1	Life Sciences	1	12	Male	1	Laboratory Technician	Married	33770	0	Y	12	8	2	2
14	55	No	Travel_Rarely	Research & Development	14	4	Life Sciences	1	13	Female	1	Sales Executive	Single	55380	0	Y	17	8	0	0
15	47	Yes	Non-Traveler	Research & Development	1	1	Medical	1	14	Male	1	Research Scientist	Married	57620	1	Y	11	8	2	2
16	28	No	Travel_Rarely	Research & Development	1	3	Life Sciences	1	15	Male	1	Manufacturing Rep.	Married	25920	1	Y	14	8	0	0
17	37	No	Travel_Rarely	Research & Development	1	3	Life Sciences	1	16	Male	2	Healthcare Representative	Married	53460	4	Y	11	8	0	0
18	21	No	Travel_Rarely	Research & Development	3	2	Life Sciences	1	17	Male	1	Laboratory Technician	Single	42130	1	Y	12	8	3	3
19	37	No	Non-Traveler	Research & Development	1	3	Medical	1	18	Male	2	Sales Executive	Divorced	41270	2	Y	13	8	1	1
20	35	No	Travel_Rarely	Sales	7	4	Life Sciences	1	19	Male	1	Sales Representative	Divorced	24380	7	Y	16	8	0	0
21	38	No	Travel_Rarely	Research & Development	8	3	Life Sciences	1	20	Female	1	Manager	Divorced	68700	1	Y	11	8	1	1
22	26	No	Travel_Frequent	Research & Development	1	4	Other	1	21	Male	2	Laboratory Technician	Divorced	104470	1	Y	18	8	0	0
23	50	No	Travel_Rarely	Sales	8	4	Life Sciences	1	22	Male	1	Research Scientist	Divorced	96670	3	Y	23	8	0	0
24	53	No	Travel_Rarely	Research & Development	11	4	Life Sciences	1	23	Female	2	Research Scientist	Married	21480	3	Y	11	8	0	0
25	42	No	Travel_Rarely	Research & Development	4	4	Life Sciences	1	24	Male	1	Manufacturing Rep.	Married	89260	1	Y	14	8	0	N
26	29	No	Travel_Frequent	Research & Development	16	4	Medical	1	25	Male	1	Laboratory Technician	Single	65130	1	Y	11	8	1	1
27	55	No	Travel_Rarely	Research & Development	1	4	Other	1	26	Female	1	Research Scientist	Married	67990	3	Y	11	8	0	0
28	26	No	Travel_Frequent	Research & Development	9	3	Life Sciences	1	27	Female	1	Manager	Married	162910	1	Y	22	8	0	0

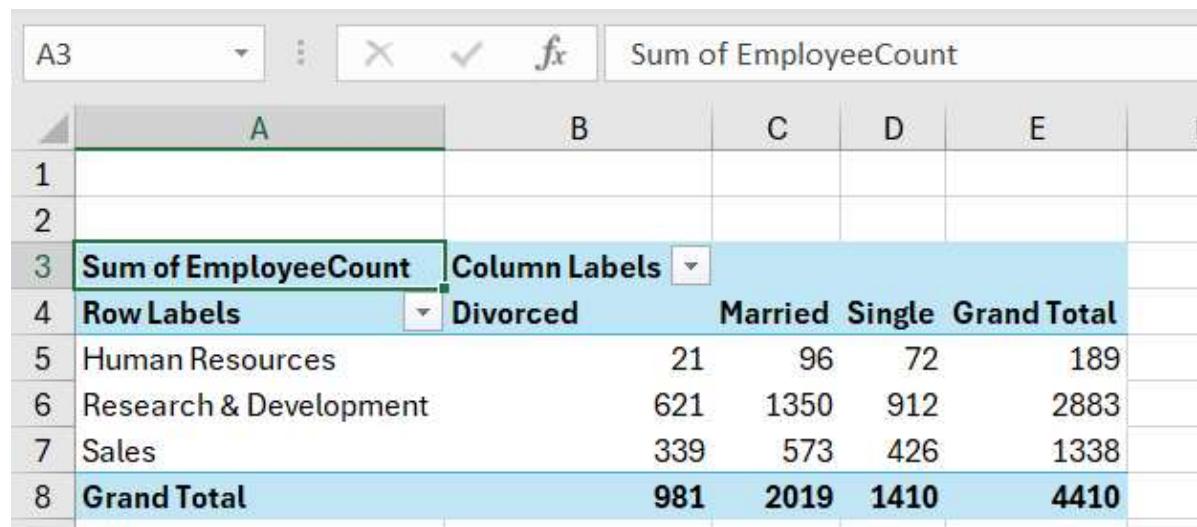
- In Power BI, establish a relationship between the "EmployeeID" in the employee data and the "EmployeeID" in the time tracking data.



- Using DAX, create a calculated column that calculates the average years an employee has spent with their current manager.



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



The screenshot shows an Excel spreadsheet with a pivot table. The top row has cells A3 through F. The second row has cells 1 through F. The third row has cells Sum of EmployeeCount, Column Labels, and empty cells B, C, D, E, F. The fourth row has cells Row Labels, Divorced, Married, Single, and Grand Total. The fifth row has cells Human Resources, 21, 96, 72, and 189. The sixth row has cells Research & Development, 621, 1350, 912, and 2883. The seventh row has cells Sales, 339, 573, 426, and 1338. The eighth row has cells Grand Total, 981, 2019, 1410, and 4410.

A3					
1					
2					
3	Sum of EmployeeCount	Column Labels			
4	Row Labels	Divorced	Married	Single	Grand Total
5	Human Resources	21	96	72	189
6	Research & Development	621	1350	912	2883
7	Sales	339	573	426	1338
8	Grand Total	981	2019	1410	4410

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

Job Satisfaction

O1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	Age	Attrition	BusinessTravel	Department	DistanceFromHome	Education	EducationField	EmployeeCount	EmployeeID	Gender	JobLevel	JobRole	MaritalStatus	MonthlyIncome	Job Satisfaction	NumComplaints	Over18	PercentSalaryHike	StandardHours
1	51	No	Travel_Rar_Sales	6	2	Life Scienc	1	1	1	Female	1	Healthcare_Married	131160	4	1	Y	11	8	
2	31	Yes	Travel_Fre_Research	10	1	Life Scienc	1	2	2	Female	1	Research_Single	41890	2	0	Y	23	8	
3	32	No	Travel_Fre_Research	17	4	Other	1	3	3	Male	4	Sales_Exec_Married	193280	2	1	Y	15	8	
4	38	No	Non_Trav_Research	2	5	Life Scienc	1	4	4	Male	3	Human_Re_Married	83210	4	3	Y	11	8	
5	32	No	Travel_Rar_Research	10	1	Medical	1	5	5	Male	1	Sales_Exec_Single	23420	1	4	Y	12	8	
6	46	No	Travel_Rar_Research	8	3	Life Scienc	1	6	6	Female	4	Research_Married	40710	2	3	Y	13	8	
7	28	Yes	Travel_Rar_Research	11	2	Medical	1	7	7	Male	2	Sales_Exec_Single	58130	3	2	Y	20	8	
8	29	No	Travel_Rar_Research	18	3	Life Scienc	1	8	8	Male	2	Sales_Exec_Married	31430	2	2	Y	22	8	
9	31	No	Travel_Rar_Research	1	3	Life Scienc	1	9	9	Male	3	Laboratory_Married	20440	4	0	Y	21	8	
10	25	No	Non_Trav_Research	7	4	Medical	1	10	10	Female	4	Laboratory_Divorced	134640	1	1	Y	13	8	
11	45	No	Travel_Rar_Research	17	2	Medical	1	11	11	Male	2	Laboratory_Married	79910	4	0	Y	13	8	
12	36	No	Travel_Rar_Research	28	1	Life Scienc	1	12	12	Male	1	Laboratory_Married	33770	4	0	Y	12	8	
13	55	No	Travel_Rar_Research	14	4	Life Scienc	1	13	13	Female	1	Sales_Exec_Single	55380	1	0	Y	17	8	
14	47	Yes	Non_Trav_Research	1	1	Medical	1	14	14	Male	1	Research_Married	57620	2	1	Y	11	8	
15	28	No	Travel_Rar_Research	1	3	Life Scienc	1	15	15	Male	1	Manufactu_Married	25920	4	1	Y	14	8	
16	37	No	Travel_Rar_Research	1	3	Life Scienc	1	16	16	Male	2	Healthcar_Married	53460	4	4	Y	11	8	
17	21	No	Travel_Rar_Research	3	2	Life Scienc	1	17	17	Male	1	Laboratory_Single	42130	3	1	Y	12	8	
18	37	No	Non_Trav_Research	1	3	Medical	1	18	18	Male	2	Sales_Exec_Divorced	41270	4	2	Y	13	8	
19	35	No	Travel_Rar_Sales	7	4	Life Scienc	1	19	19	Male	1	Sales_Repr_Divorced	24380	2	7	Y	16	8	
20	38	No	Travel_Rar_Research	8	3	Life Scienc	1	20	20	Female	1	Manager_Divorced	68700	1	1	Y	11	8	
21	26	No	Travel_Fre_Research	1	4	Other	1	21	21	Male	2	Laboratory_Divorced	104470	2	1	Y	18	8	
22	50	No	Travel_Rar_Sales	8	4	Life Scienc	1	22	22	Male	1	Research_Divorced	96670	2	3	Y	23	8	
23	53	No	Travel_Rar_Research	11	4	Life Scienc	1	23	23	Female	2	Research_Married	21480	3	3	Y	11	8	
24	42	No	Travel_Rar_Research	4	4	Life Scienc	1	24	24	Male	1	Manufactu_Married	89260	3	1	Y	14	8	
25	29	No	Travel_Fre_Research	16	4	Medical	1	25	25	Male	1	Laboratory_Single	65130	4	1	Y	11	8	
26	55	No	Travel_Rar_Research	1	4	Other	1	26	26	Female	1	Research_Married	67990	4	3	Y	11	8	
27	26	No	Travel_Fre_Research	9	3	Life Scienc	1	27	27	Female	1	Manager_Married	162910	1	1	Y	22	8	
28	27	No	Travel_Dr_Sales	5	1	Marketing	1	28	28	Male	1	Research_Single	27650	4	1	Y	11	8	

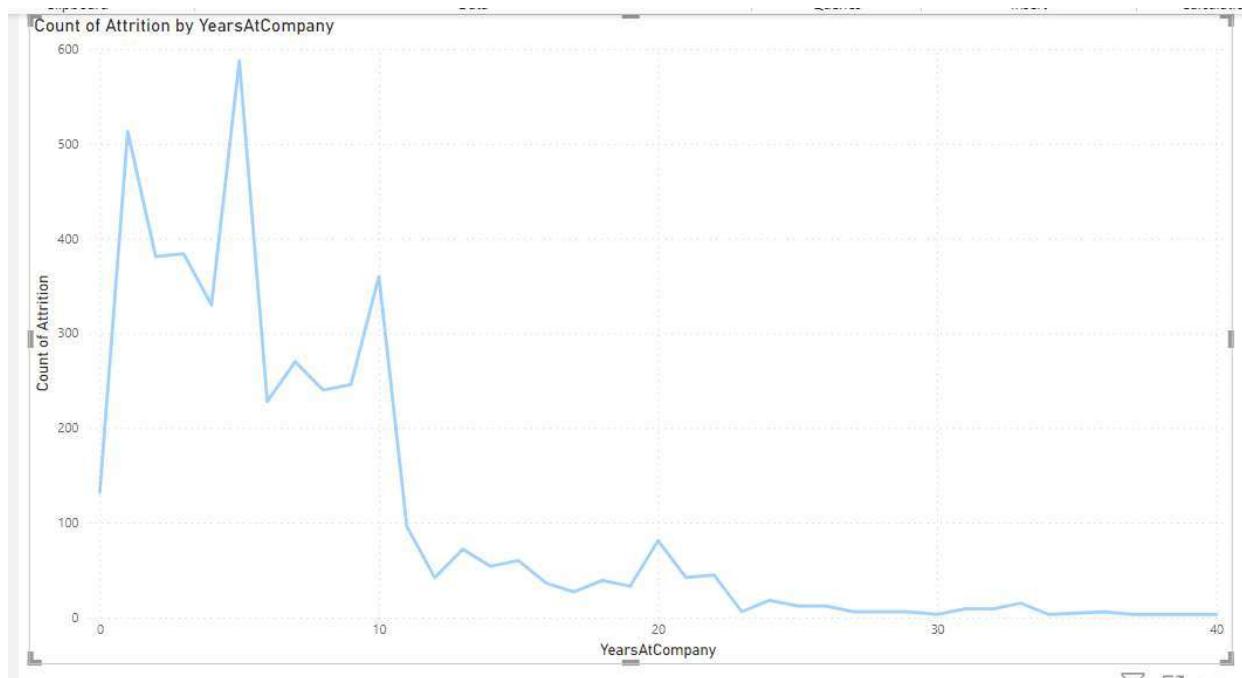
Sheet1 | Sheet2 | general\_data | +

Average: 2.728246014 Count: 4411 Sum: 11977

2	3	Row Labels	Average of Job Satisfaction
4	1		1
5	2		2
6	3		3
7	4		4
8	Grand Total		2.728246014
9			

A
1
2
3
Average of MonthlyIncome
4
65029.31293
5

- In Power BI, create a line chart that visualizes the trend of Employee Attrition over the years.



- **DESCRIBE HOW YOU WOULD CREATE A STAR SCHEMA FOR THIS DATASET, EXPLAINING THE BENEFITS OF DOING SO.**

We can create a star schema for this data , consider general\_data table as an fact table and rest other tables as an

Dimension tables, By connecting employee id column of fact table with all the dimension table of primary key(i.e,  
employee id) .

BENEFITS :

- Simplicity and Ease of Understanding:

The star schema's simplicity makes it easy to understand and navigate for analysts and users.

With direct links between the

fact table and each dimension table, querying and analyzing data becomes more intuitive.

- Improved Query Performance:

Query performance tends to be optimized in star schemas, especially with a 1-1 relationship, as it reduces the number of joins

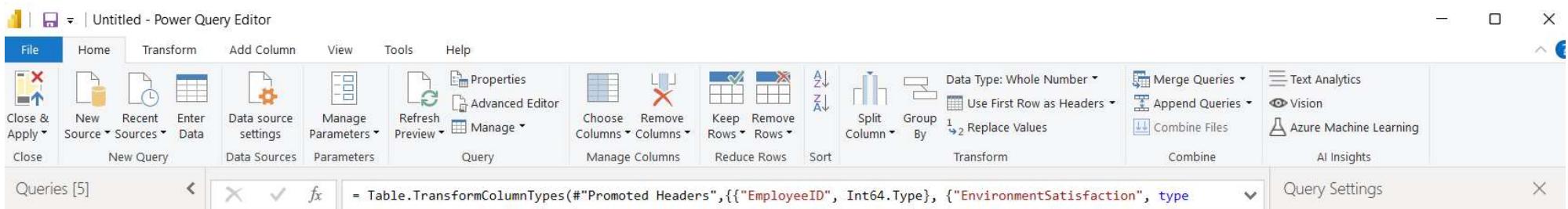
required to retrieve information. This streamlined structure generally leads to faster query execution.

USING DAX, CALCULATE THE ROLLING 3-MONTH AVERAGE OF MONTHLY INCOME FOR EACH EMPLOYEE.

- Create a hierarchy in Power BI that allows users to drill down from Department to Job Role to further narrow their analysis.

	A	B	C
1			
2			
3	Row Labels	Count of EmployeeID	Average of MonthlyIncome
4	Human Resources	189	57904.44444
5	Healthcare Representative	9	92360
6	Human Resources	3	20140
7	Laboratory Technician	39	77731.53846
8	Manager	9	87603.33333
9	Manufacturing Director	24	55690
10	Research Director	3	74460
11	Research Scientist	36	52776.66667
12	Sales Executive	54	45062.22222
13	Sales Representative	12	28255
14	Research & Development	2883	67187.96046
15	Healthcare Representative	261	59380.57471
16	Human Resources	108	64283.88889
17	Laboratory Technician	492	67488.23171
18	Manager	207	67902.46377
19	Manufacturing Director	285	71635.36842
20	Research Director	156	67864.03846
21	Research Scientist	564	68052.44681
22	Sales Executive	630	67639.90476
23	Sales Representative	180	66690.5
24	Sales	1338	61384.48443
25	Healthcare Representative	123	62089.7561
26	Human Resources	45	47273.33333
27	Laboratory Technician	246	62155.60976
28	Manager	90	50610
29	Manufacturing Director	126	66208.57143
30	Research Director	81	60535.55556
31	Research Scientist	276	60279.56522
32	Sales Executive	294	63626.12245
33	Sales Representative	57	69017.89474
34	Grand Total	4410	65029.31293
35			

- How can you set up parameterized queries in Power BI to allow users to filter data based on the Distance from Home column?



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

A	B	C	D	E
1 JobLevel	(Multiple Items)			
2				
3 Row Labels	Average of MonthlyIncome			
4 Human Resources	54319			
5 Research & Development	71052.98805			
6 Sales	62771.39344			
7 Grand Total	67630.50891			
8				
9				

- Verify if the data adheres to a predefined schema. What actions would you take if you find inconsistencies

Yes, the data is completely adhere to a predefined schema

if we find any inconsistencies in data , These are Actions that can be performed to address Inconsistencies in data

Identify Inconsistencies:

Review the predefined schema or data model to understand the expected structure, formats, and data types. Compare the actual data against the predefined schema to identify inconsistencies, such as missing fields, incorrect data types, unexpected values, or structural deviations.

Document Issues:

Document all inconsistencies, errors, or deviations found in the data. Create a report outlining the specific issues encountered compared to the predefined schema.

Data Cleansing:

Perform data cleansing activities to rectify inconsistencies, such as correcting data types, removing duplicates, filling missing values, or transforming data to match the expected format.

**Normalization or Standardization:**

Normalize or standardize the data to ensure it adheres to the predefined schema. This might involve reformatting data, restructuring columns, or applying consistent naming conventions.

**Validation and Verification:**

Apply validation checks or scripts to verify the modified data against the predefined schema. Confirm that the inconsistencies have been addressed and the data now aligns with the expected structure.

**Communicate with Stakeholders:**

Communicate findings and actions taken to relevant stakeholders, such as data owners, analysts, or decision-makers. Discuss any challenges encountered and proposed solutions.

**Update Documentation:**

Update documentation or data dictionaries to reflect any changes made to accommodate the data inconsistencies. Maintain clear documentation for future reference.

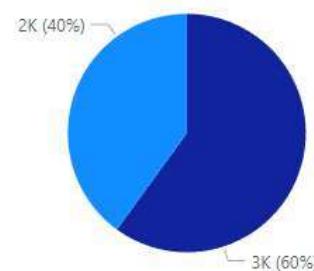
**Iterative Process:**

Continuous monitoring and refinement are essential. Regularly review and validate data against the predefined schema, as data may evolve or new inconsistencies may arise.

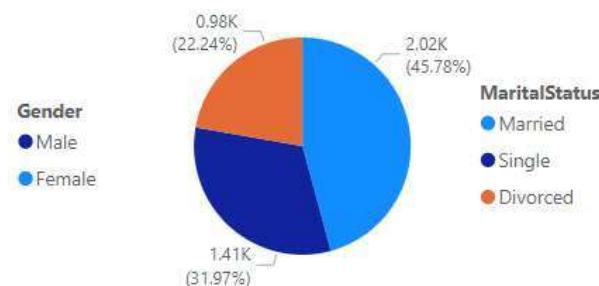
# DASHBOARD



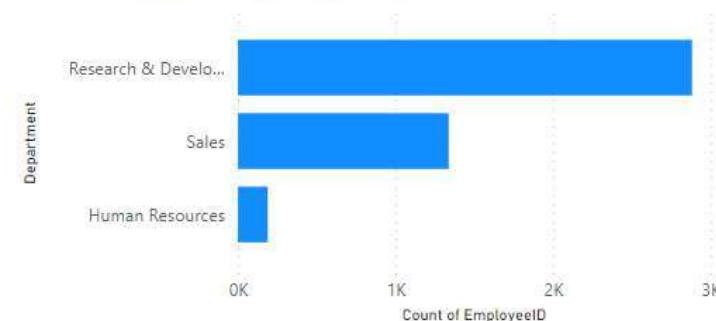
Sum of Total Employee by Gender



Count of Attrition by MaritalStatus



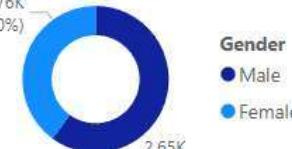
Count of EmployeeID by Department



Attrition by JobRole



Count of WorkLifeBalance by Gender



Average of PercentSalaryHike by JobRole

