120A3051

Shreya Idate

Batch: E3

Experiment 10

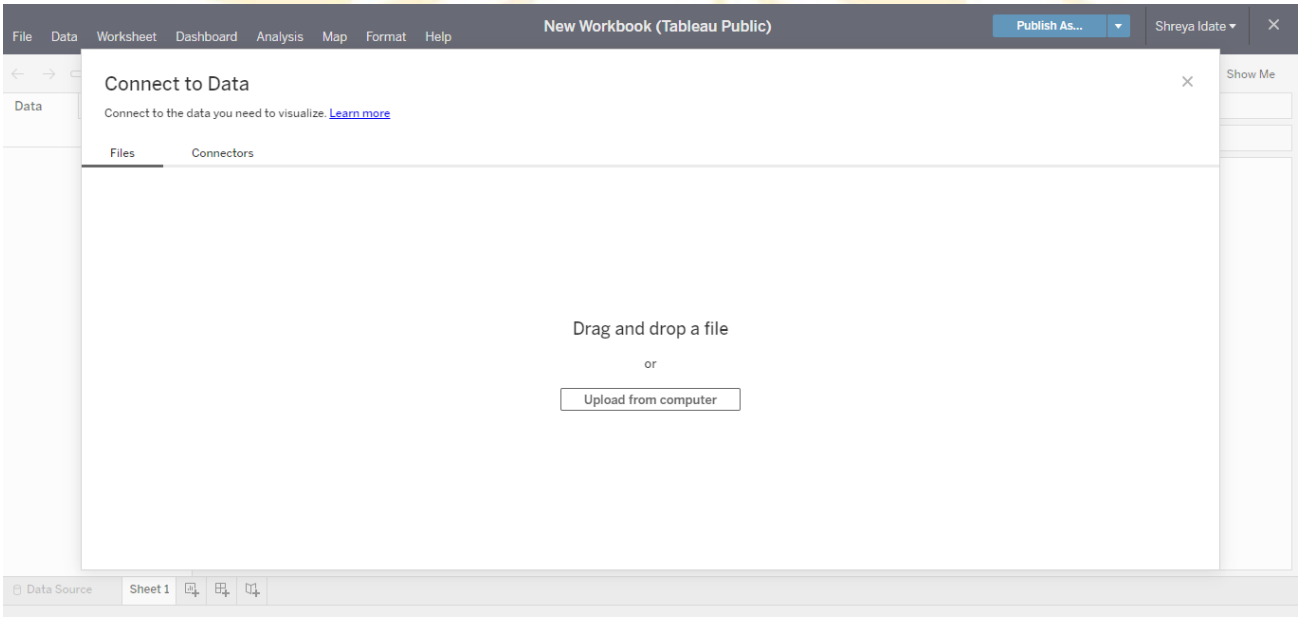
Aim: Use any Business Intelligence tool

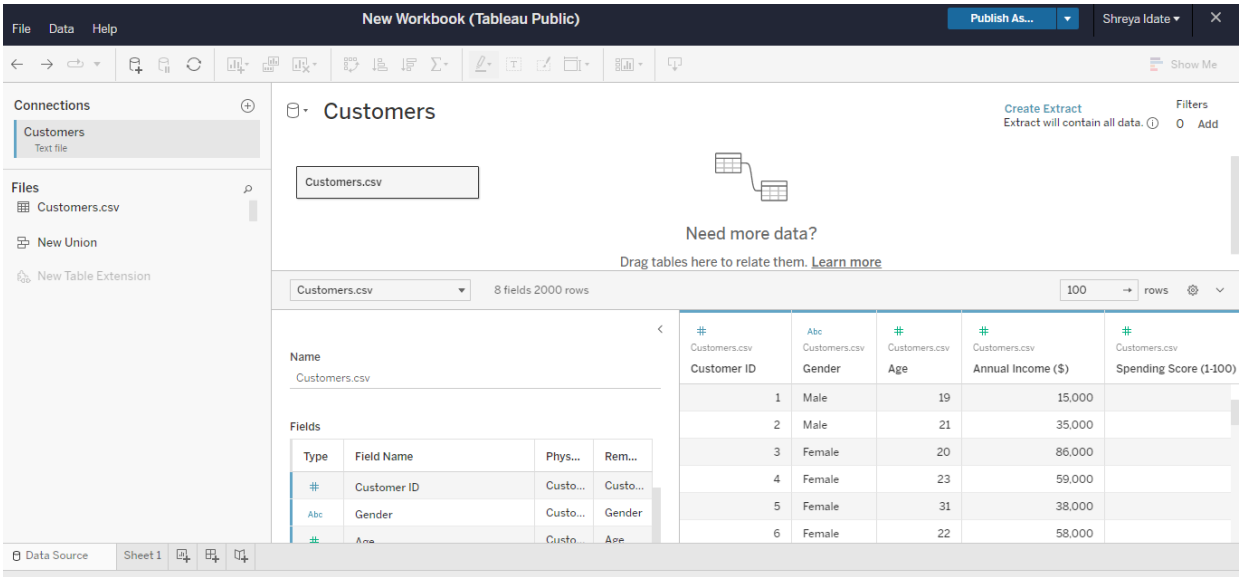
Theory:

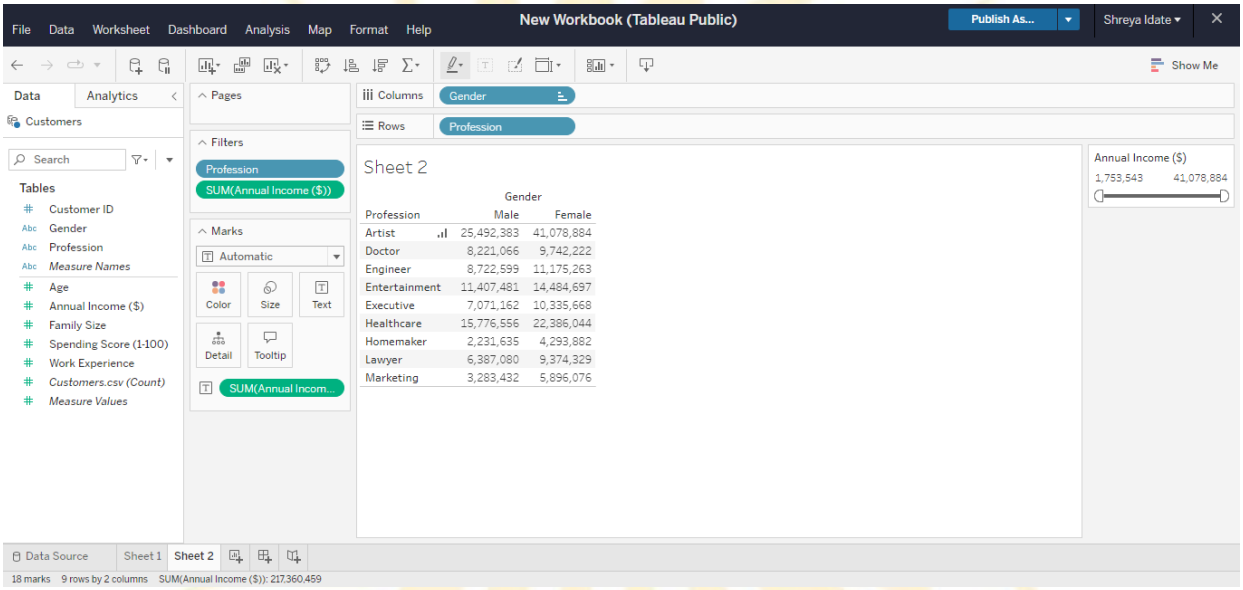
Tableau is a data visualization and business intelligence tool used to create interactive and visually appealing reports, charts, and dashboards. It allows users to connect to various data sources, including spreadsheets, databases, and cloud-based applications, and then transform that data into interactive visuals, such as bar charts, scatter plots, heat maps, and geographical maps, among others.

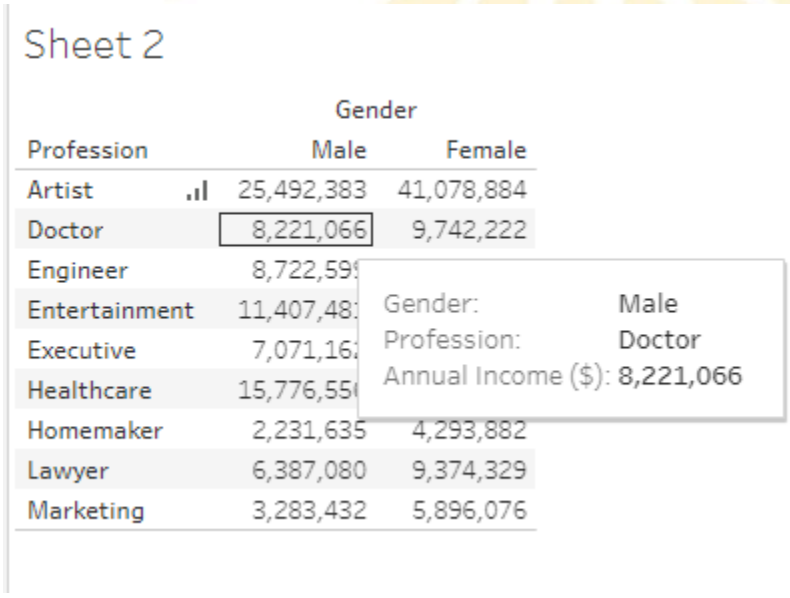
Tableau's intuitive drag-and-drop interface makes it easy to create dynamic visualizations without the need for extensive programming or technical expertise. The tool also offers advanced features such as data blending, calculations, and statistical analysis, which enable users to gain insights from their data in real-time. Tableau can be used across various industries, including finance, healthcare, retail, and technology, among others.

Output:




File Data Help
New Workbook (Tableau Public)
Publish As...
Shreya Idate
Connections
Customers
Text file
Files
Customers.csv
New Union
New Table Extension
Customers
Create Extract
Extract will contain all data.
Filters
0 Add
Customers.csv
Need more data?
Drag tables here to relate them. Learn more
8 fields 2000 rows
100 rows
Name
Customers.csv
Fields
Type
Field Name
Phys...
Rem...
Customer ID
Gender
Age
Annual Income ($)
Spending Score (1-100)
1 Male 19 15,000
2 Male 21 35,000
3 Female 20 86,000
4 Female 23 59,000
5 Female 31 38,000
6 Female 22 58,000
Data Source
Sheet 1


File Data Worksheet Dashboard Analysis Map Format Help
New Workbook (Tableau Public)
Publish As...
Shreya Idate
Show Me
Data
Analytics
Customers
Search
Tables
Customer ID
Gender
Profession
Measure Names
Age
Annual Income ($)
Family Size
Spending Score (1-100)
Work Experience
Customers.csv (Count)
Measure Values
Pages
Filters
Profession
SUM(Annual Income ($))
Marks
Automatic
Color
Size
Text
Detail
Tooltip
SUM(Annual Incom...
Columns
Gender
Rows
Profession
Sheet 2
Gender
Profession Male Female
Artist 25,492,383 41,078,884
Doctor 8,221,066 9,742,222
Engineer 8,722,599 11,175,263
Entertainment 11,407,481 11,484,697
Executive 7,071,162 10,335,668
Healthcare 15,776,556 22,386,044
Homemaker 2,231,635 4,293,882
Lawyer 6,387,080 9,374,329
Marketing 3,283,432 5,896,076
Annual Income ($)
1,753,543 41,078,884
Data Source
Sheet 1
Sheet 2
18 marks 9 rows by 2 columns SUM(Annual Income ($)): 217,360,459

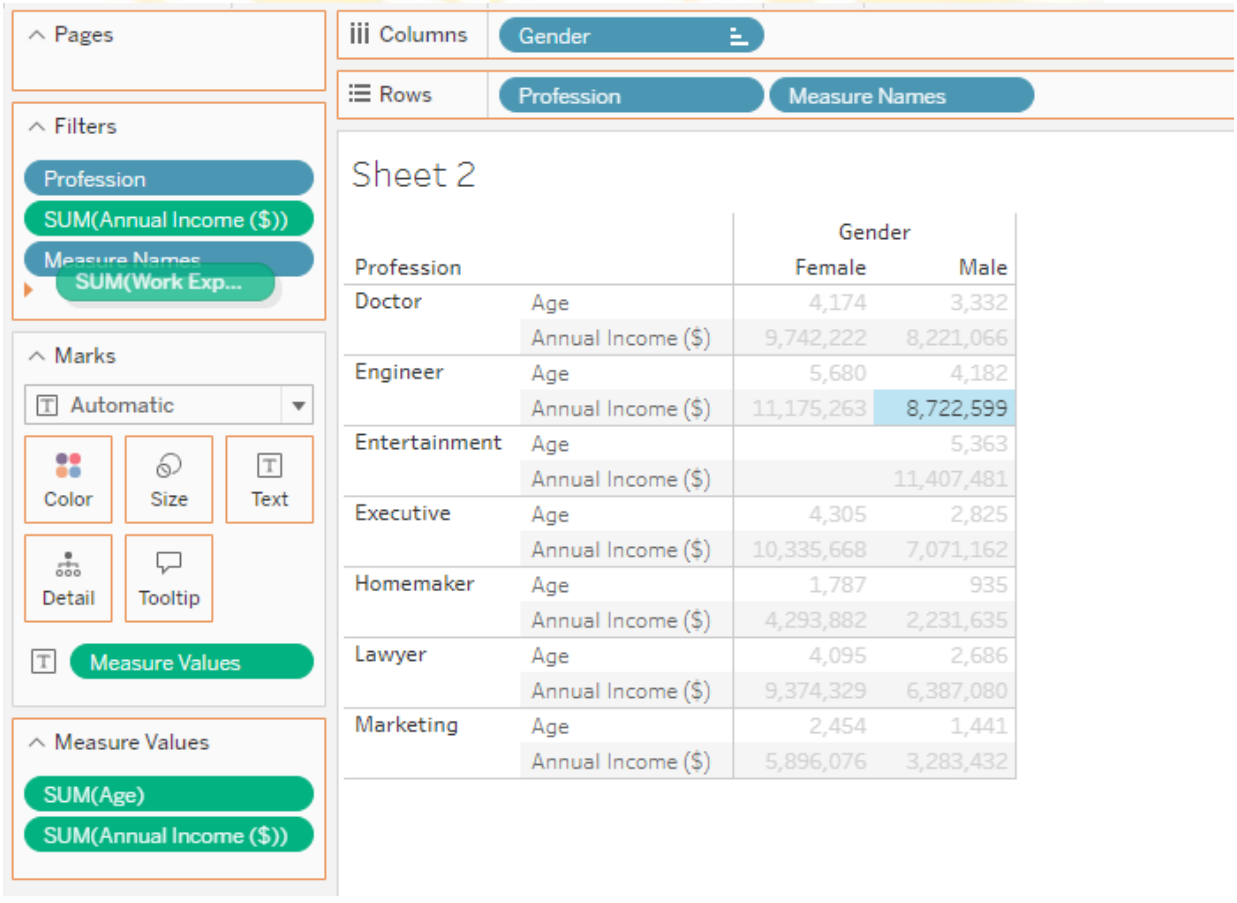

Sheet 2
Gender
Profession Male Female
Artist 25,492,383 41,078,884
Doctor 8,221,066 9,742,222
Engineer 8,722,59
Entertainment 11,407,48
Executive 7,071,16
Healthcare 15,776,55
Homemaker 2,231,635 4,293,882
Lawyer 6,387,080 9,374,329
Marketing 3,283,432 5,896,076
Gender: Male
Profession: Doctor
Annual Income ($): 8,221,066

Sheet 2

Profession		Gender: Female	Gender: Male
Doctor	Age	4,174	3,332
	Annual Income ($)	9,742,222	8,221,066
Engineer	Age	5,680	4,182
	Annual Income ($)	11,175,263	8,722,599
Entertainment	Age		5,363
	Annual Income ($)		11,407,481
Executive	Age	4,305	2,825
	Annual Income ($)	10,335,668	7,071,162
Homemaker	Age	1,787	935
	Annual Income ($)	4,293,882	2,231,635
Lawyer	Age	4,095	2,686
	Annual Income ($)	9,374,329	6,387,080
Marketing	Age	2,454	1,441
	Annual Income ($)	5,896,076	3,283,432

Annual Income ($)

1,753,543 14,156,151



Sheet 2

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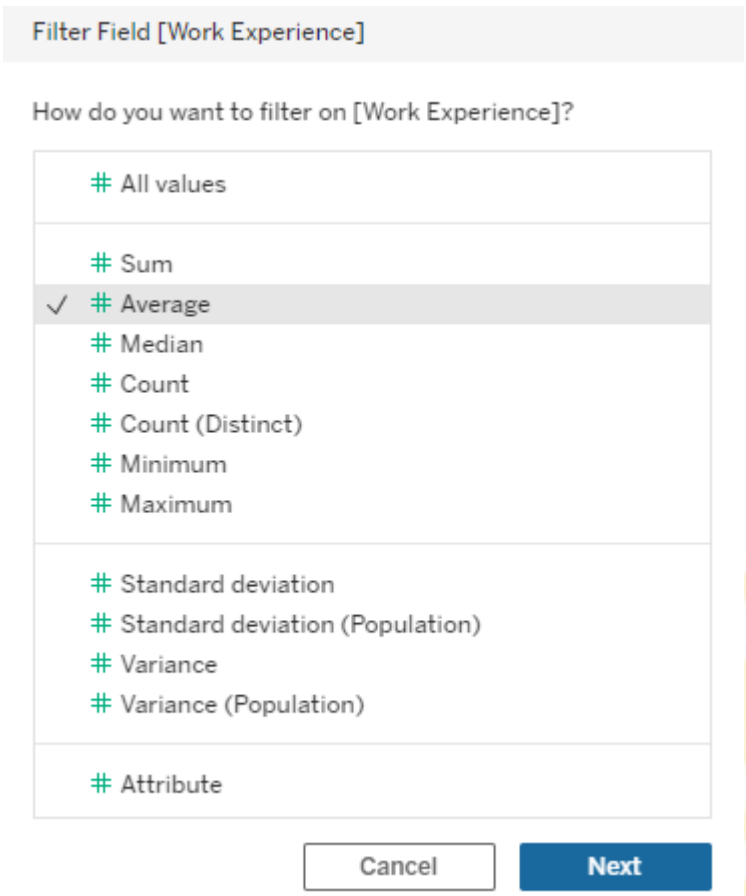
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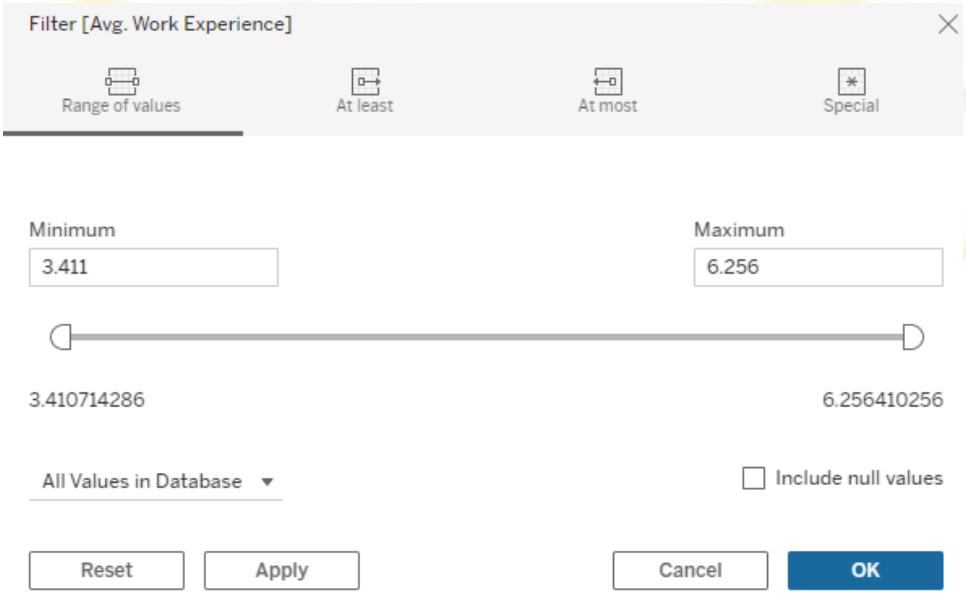
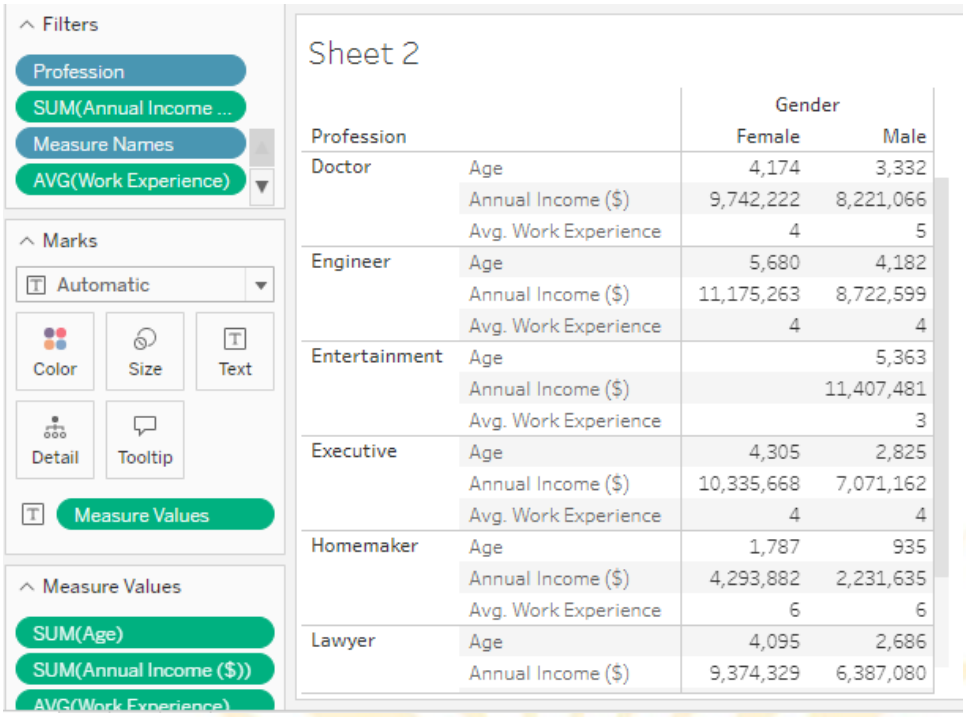
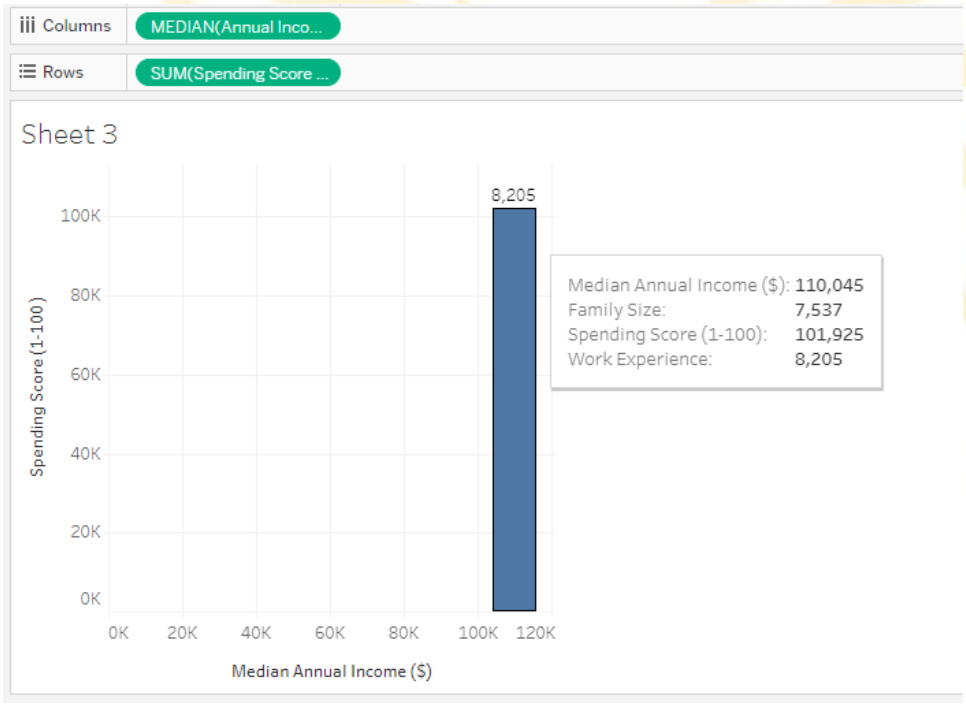
How do you want to filter on [Work Experience]?
All values
Sum
Average
Median
Count
Count (Distinct)
Minimum
Maximum
Standard deviation
Standard deviation (Population)
Variance
Variance (Population)
Attribute
Cancel
Next


Filter [Avg. Work Experience]
Range of values
At least
At most
Special
Minimum
3.411
Maximum
6.256
3.410714286
6.256410256
All Values in Database
Include null values
Reset
Apply
Cancel
OK





Conclusion: Successfully explored Tableau - a Business Intelligence tool.