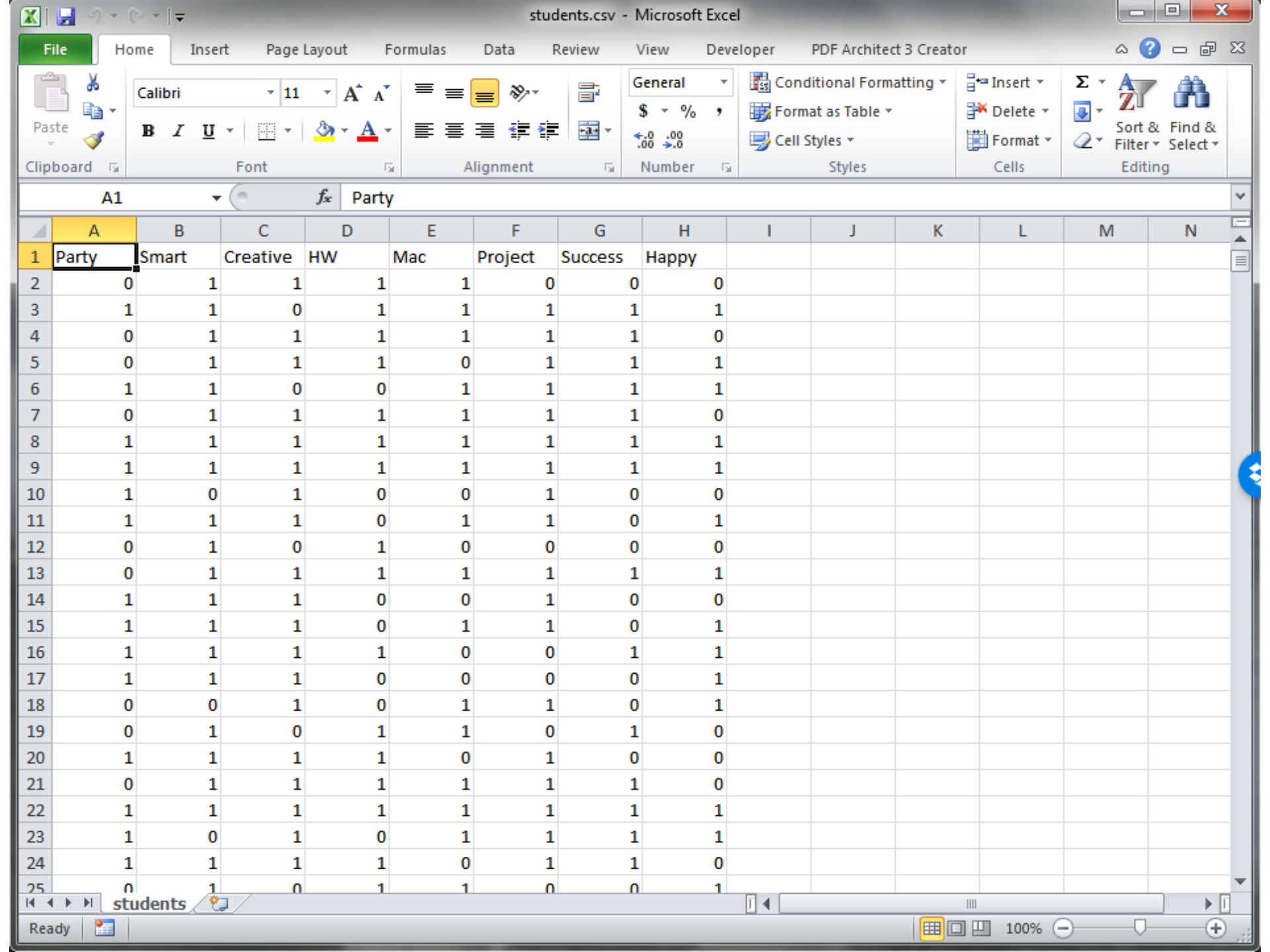
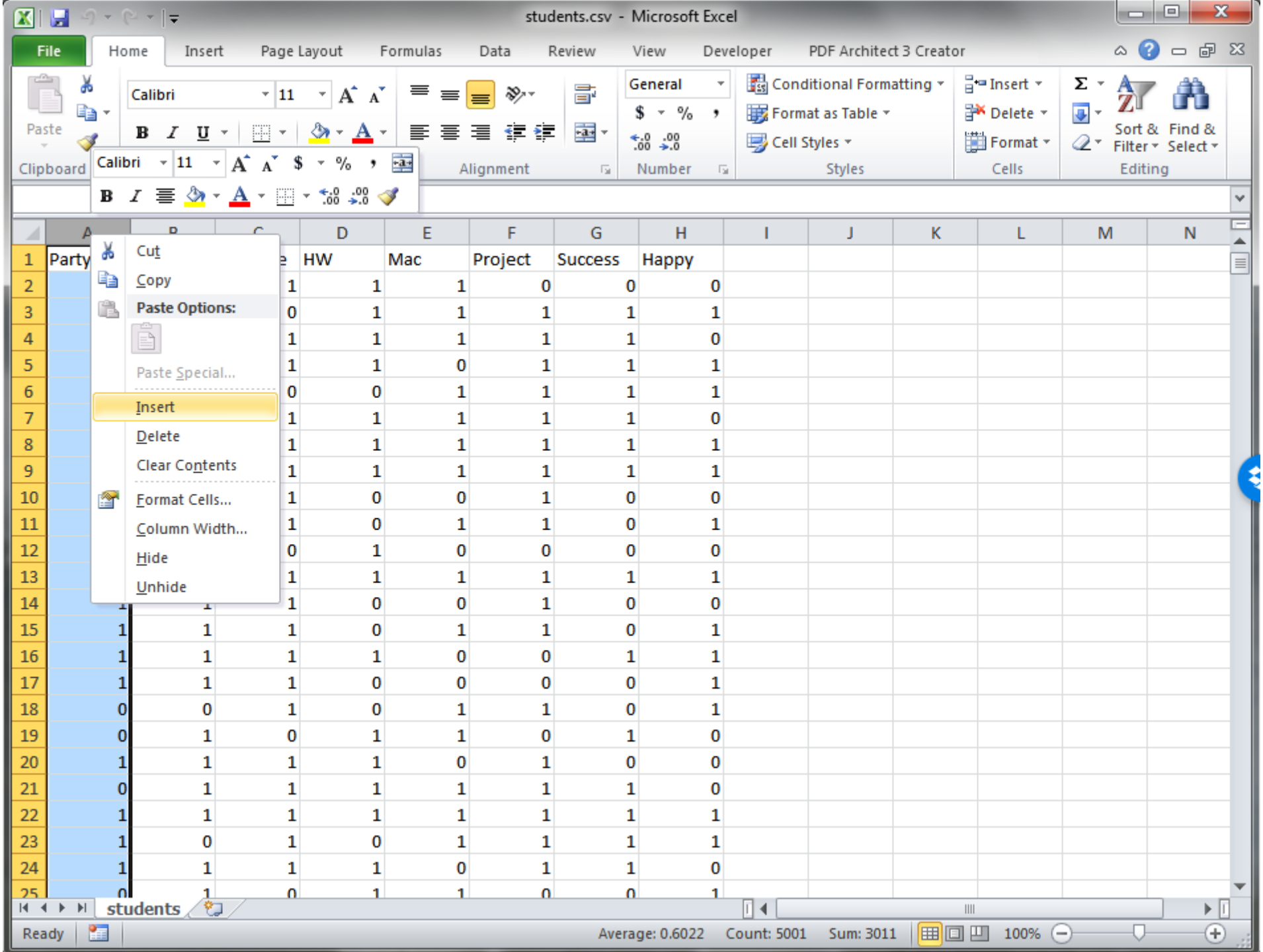
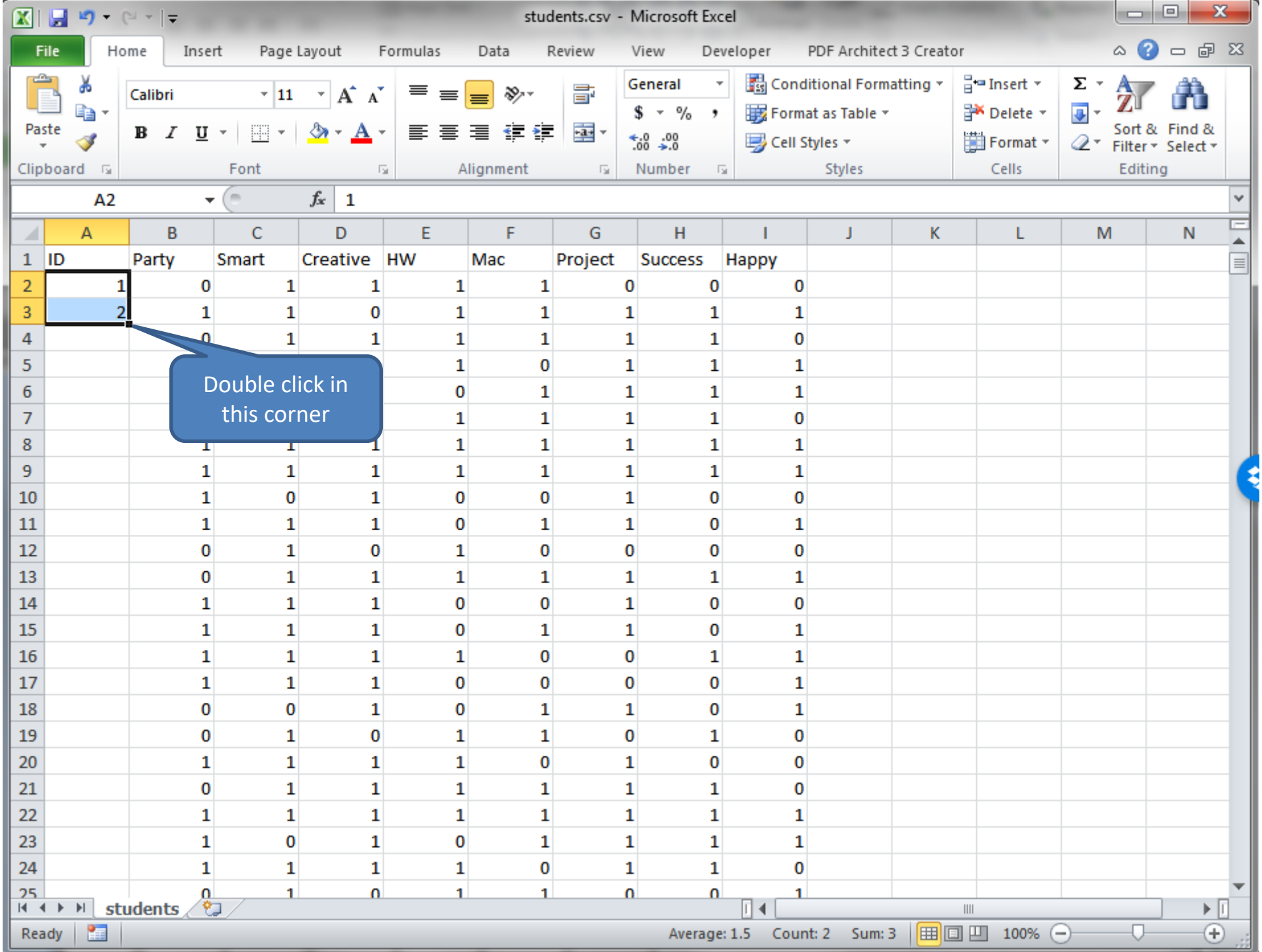
Excel Pivot Table Example

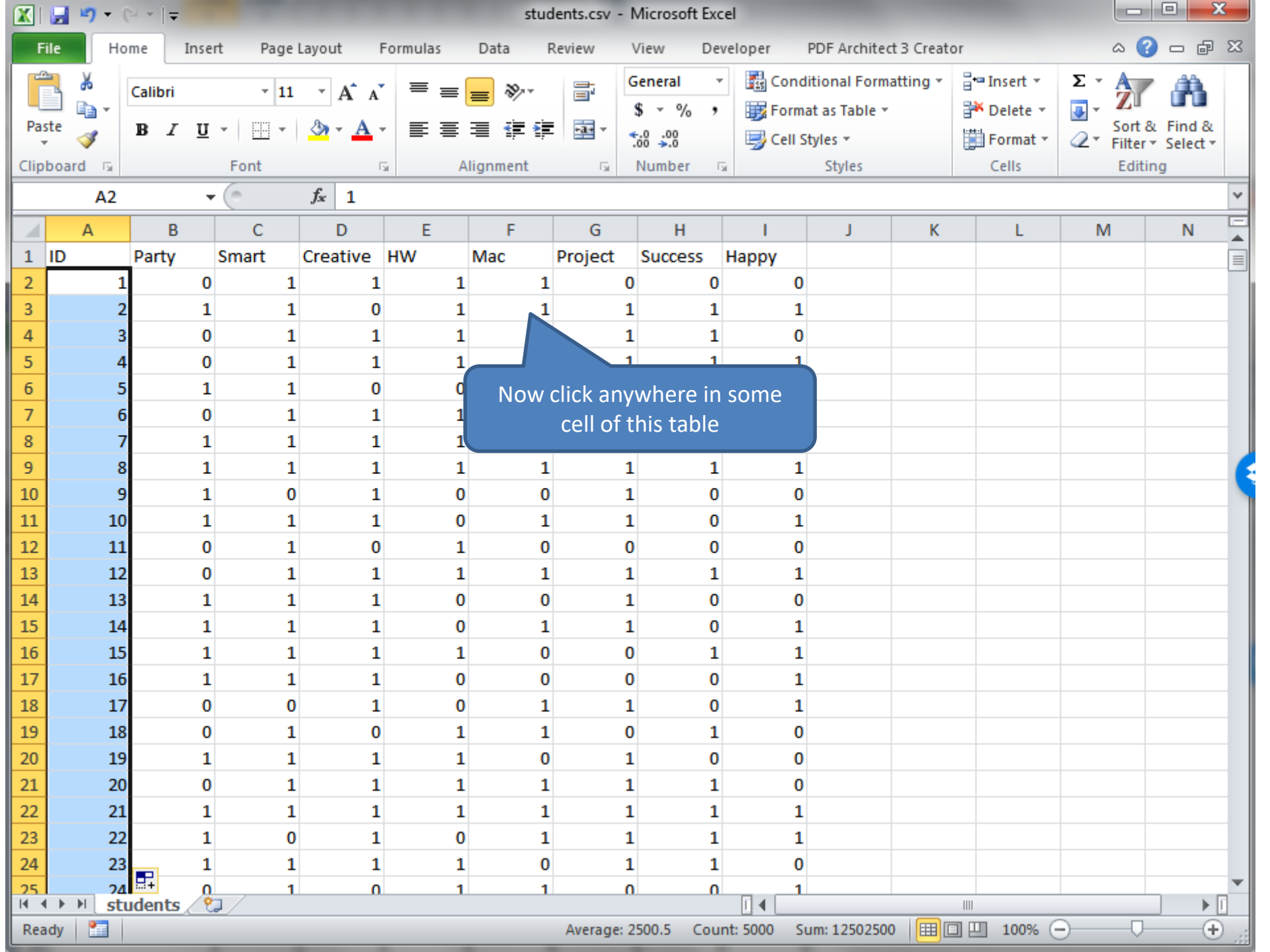


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Party	Smart	Creative	HW	Mac	Project	Success	Happy						
2	0	1	1	1	1	0	0	0						
3	1	1	0	1	1	1	1	1						
4	0	1	1	1	1	1	1	0						
5	0	1	1	1	0	1	1	1						
6	1	1	0	0	1	1	1	1						
7	0	1	1	1	1	1	1	0						
8	1	1	1	1	1	1	1	1						
9	1	1	1	1	1	1	1	1						
10	1	0	1	0	0	1	0	0						
11	1	1	1	0	1	1	0	1						
12	0	1	0	1	0	0	0	0						
13	0	1	1	1	1	1	1	1						
14	1	1	1	0	0	1	0	0						
15	1	1	1	0	1	1	0	1						
16	1	1	1	1	0	0	1	1						
17	1	1	1	0	0	0	0	1						
18	0	0	1	0	1	1	0	1						
19	0	1	0	1	1	0	1	0						
20	1	1	1	1	0	1	0	0						
21	0	1	1	1	1	1	1	0						
22	1	1	1	1	1	1	1	1						
23	1	0	1	0	1	1	1	1						
24	1	1	1	1	0	1	1	0						
25	0	1	0	1	1	0	0	1						

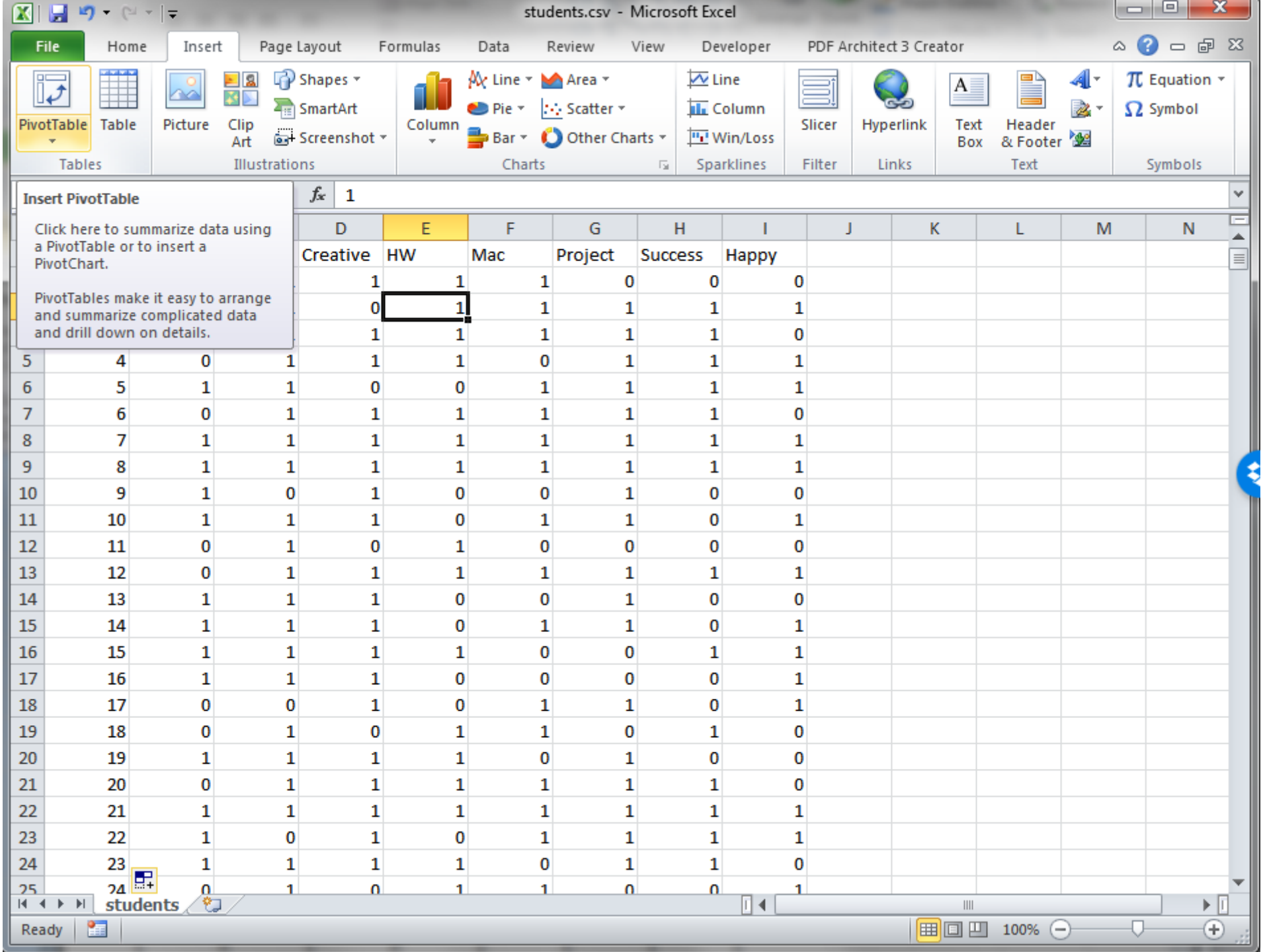

students.csv - Microsoft Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
Calibri
11
General
Conditional Formatting
Format as Table
Cell Styles
Insert
Delete
Format
Sort & Filter
Find & Select
Clipboard
Alignment
Number
Styles
Cells
Editing
Cut
Copy
Paste Options:
Paste Special...
Insert
Delete
Clear Contents
Format Cells...
Column Width...
Hide
Unhide
Party
HW
Mac
Project
Success
Happy
students
Ready
Average: 0.6022
Count: 5001
Sum: 3011
100%

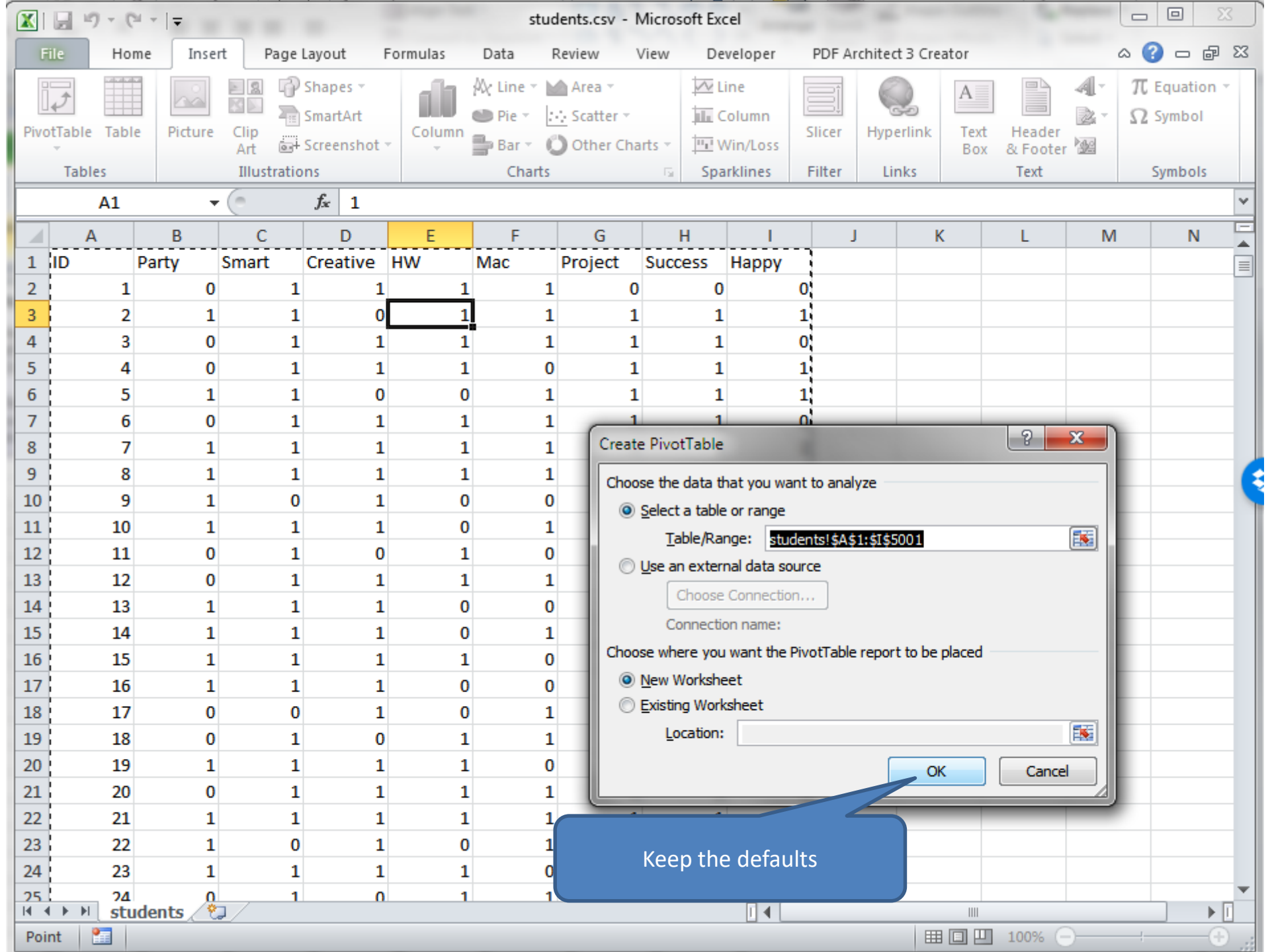


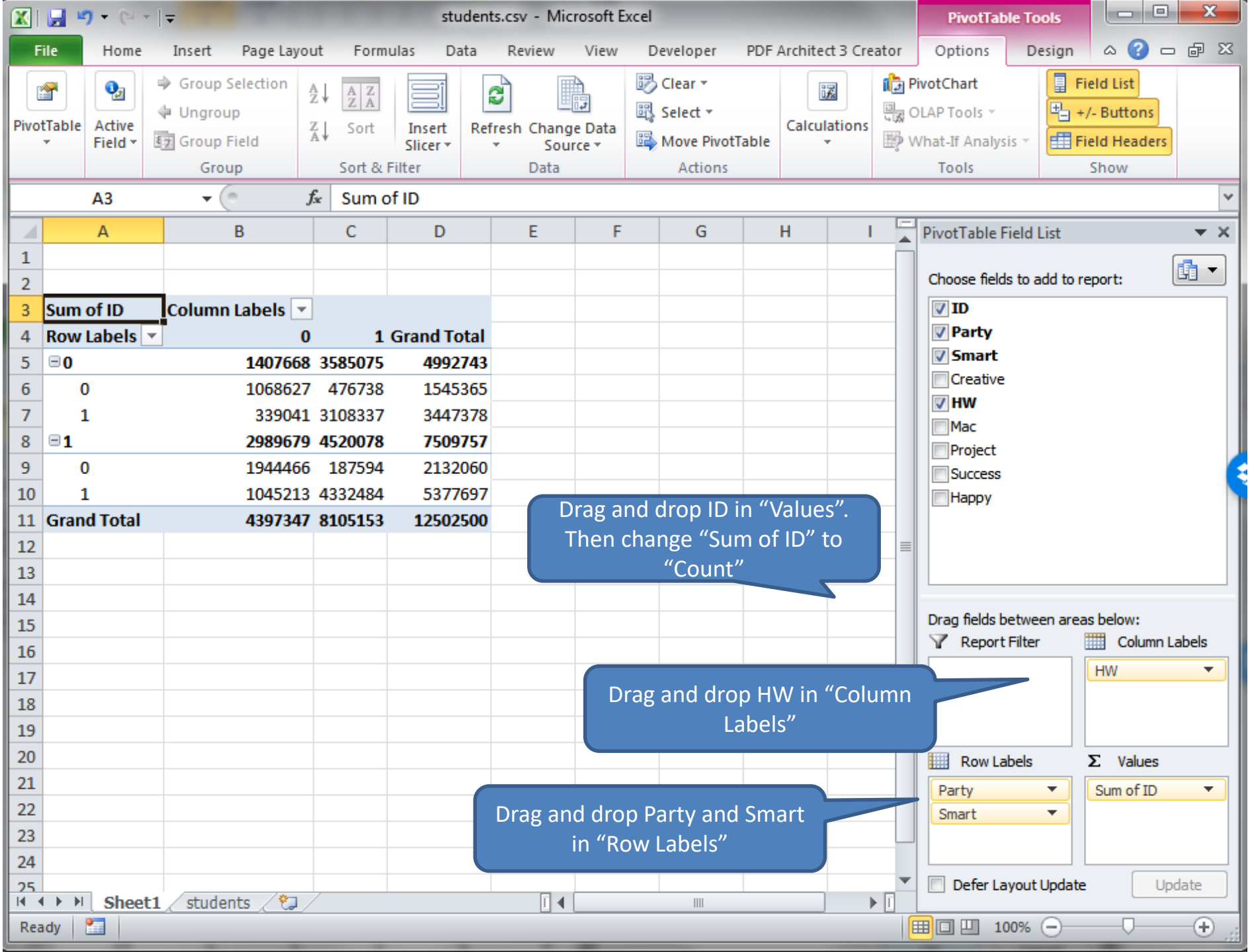
	A	B	C	D	E	F	G	H	I
1	ID	Party	Smart	Creative	HW	Mac	Project	Success	Happy
2	1	0	1	1	1	1	0	0	0
3	2	1	1	0	1	1	1	1	1
4		0	1	1	1	1	1	1	0
5					1	0	1	1	1
6					0	1	1	1	1
7					1	1	1	1	0
8		1	1	1	1	1	1	1	1
9		1	1	1	1	1	1	1	1
10		1	0	1	0	0	1	0	0
11		1	1	1	0	1	1	0	1
12		0	1	0	1	0	0	0	0
13		0	1	1	1	1	1	1	1
14		1	1	1	0	0	1	0	0
15		1	1	1	0	1	1	0	1
16		1	1	1	1	0	0	1	1
17		1	1	1	0	0	0	0	1
18		0	0	1	0	1	1	0	1
19		0	1	0	1	1	0	1	0
20		1	1	1	1	0	1	0	0
21		0	1	1	1	1	1	1	0
22		1	1	1	1	1	1	1	1
23		1	0	1	0	1	1	1	1
24		1	1	1	1	0	1	1	0
25		0	1	0	1	1	0	0	1

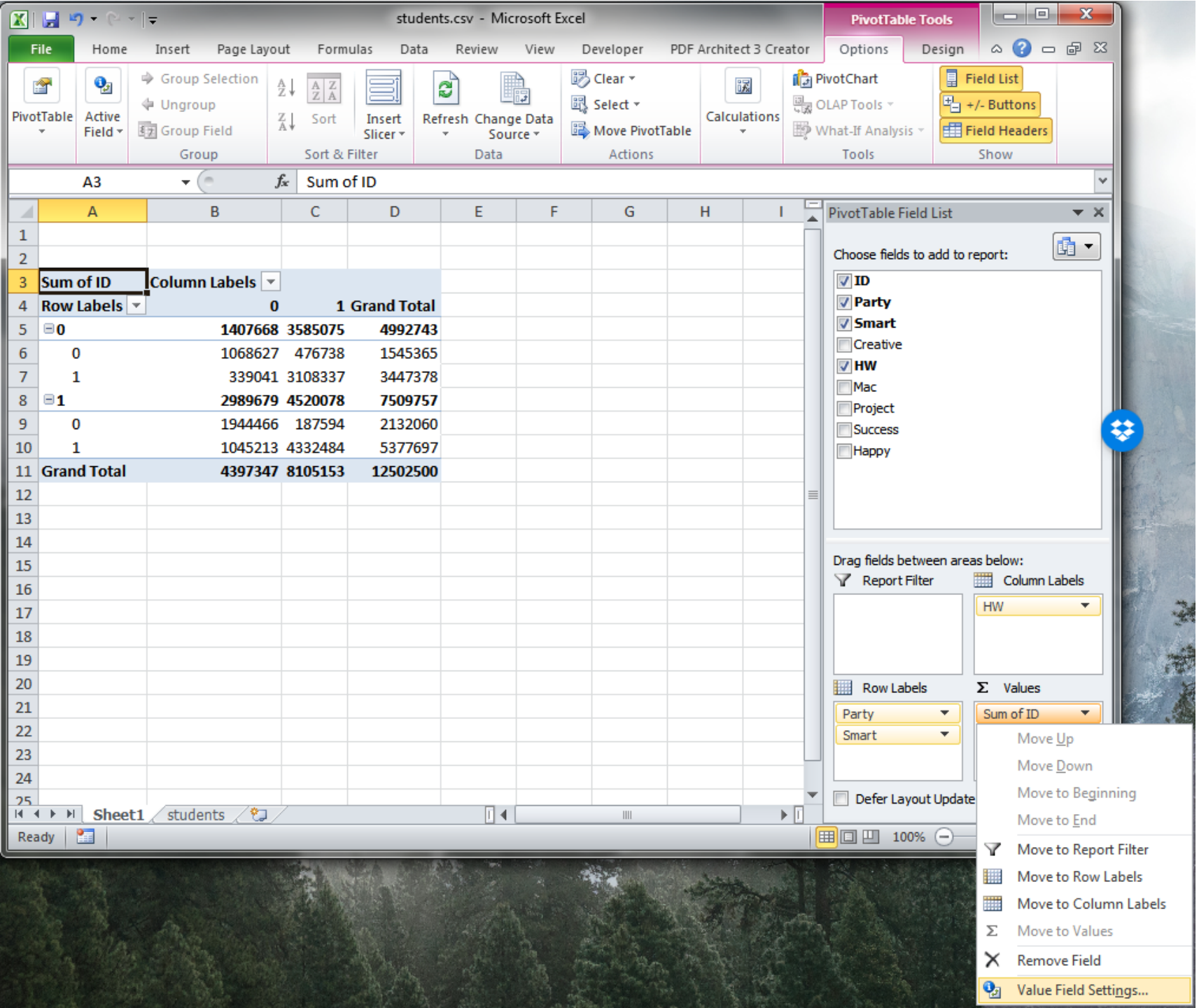


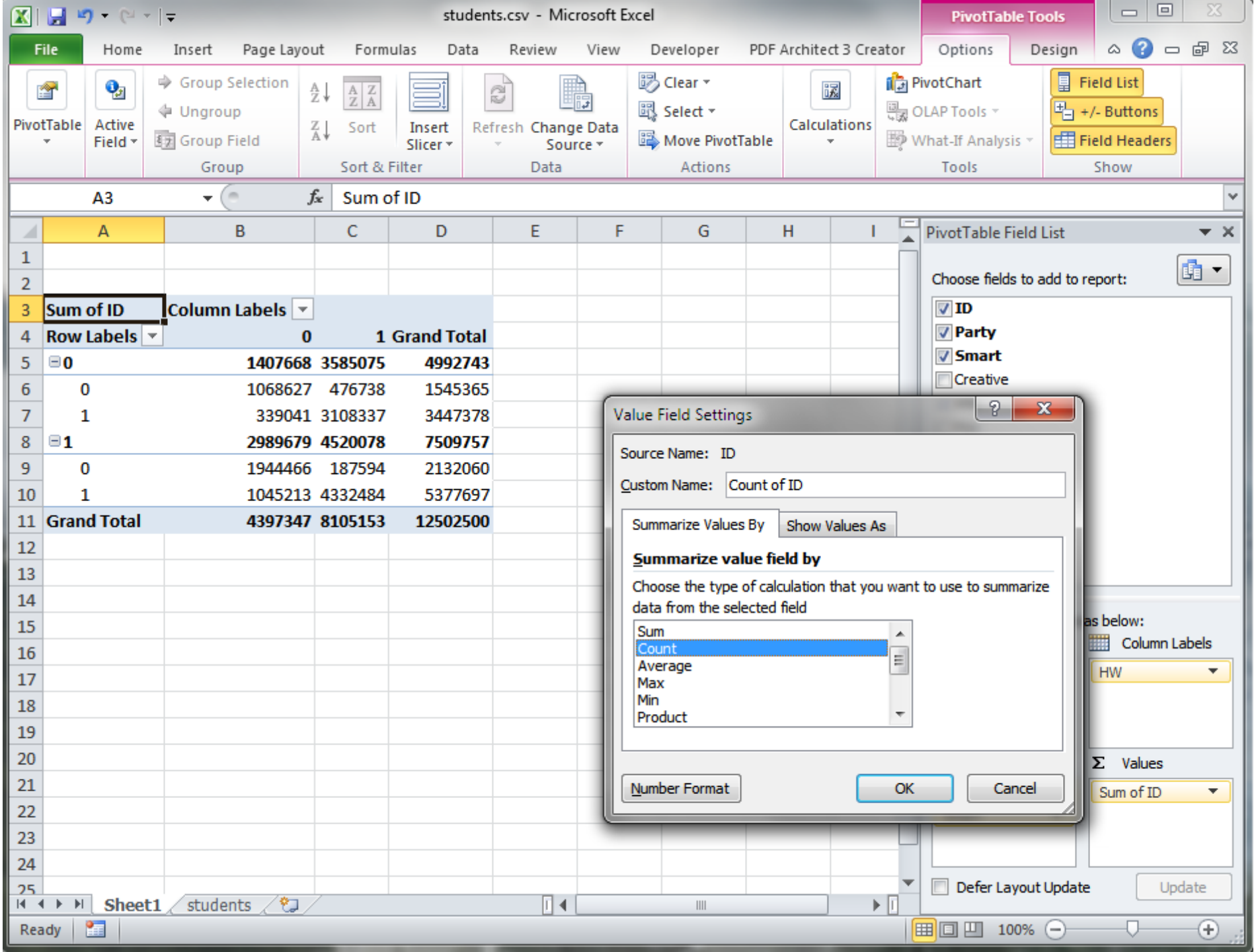
	A	B	C	D	E	F	G	H	I
1	ID	Party	Smart	Creative	HW	Mac	Project	Success	Happy
2	1	0	1	1	1	1	0	0	0
3	2	1	1	0	1	1	1	1	1
4	3	0	1	1	1		1	1	0
5	4	0	1	1	1		1	1	1
6	5	1	1	0	0				
7	6	0	1	1	1				
8	7	1	1	1	1				
9	8	1	1	1	1	1	1	1	1
10	9	1	0	1	0	0	1	0	0
11	10	1	1	1	0	1	1	0	1
12	11	0	1	0	1	0	0	0	0
13	12	0	1	1	1	1	1	1	1
14	13	1	1	1	0	0	1	0	0
15	14	1	1	1	0	1	1	0	1
16	15	1	1	1	1	0	0	1	1
17	16	1	1	1	0	0	0	0	1
18	17	0	0	1	0	1	1	0	1
19	18	0	1	0	1	1	0	1	0
20	19	1	1	1	1	0	1	0	0
21	20	0	1	1	1	1	1	1	0
22	21	1	1	1	1	1	1	1	1
23	22	1	0	1	0	1	1	1	1
24	23	1	1	1	1	0	1	1	0
25	24	0	1	0	1	1	0	0	1

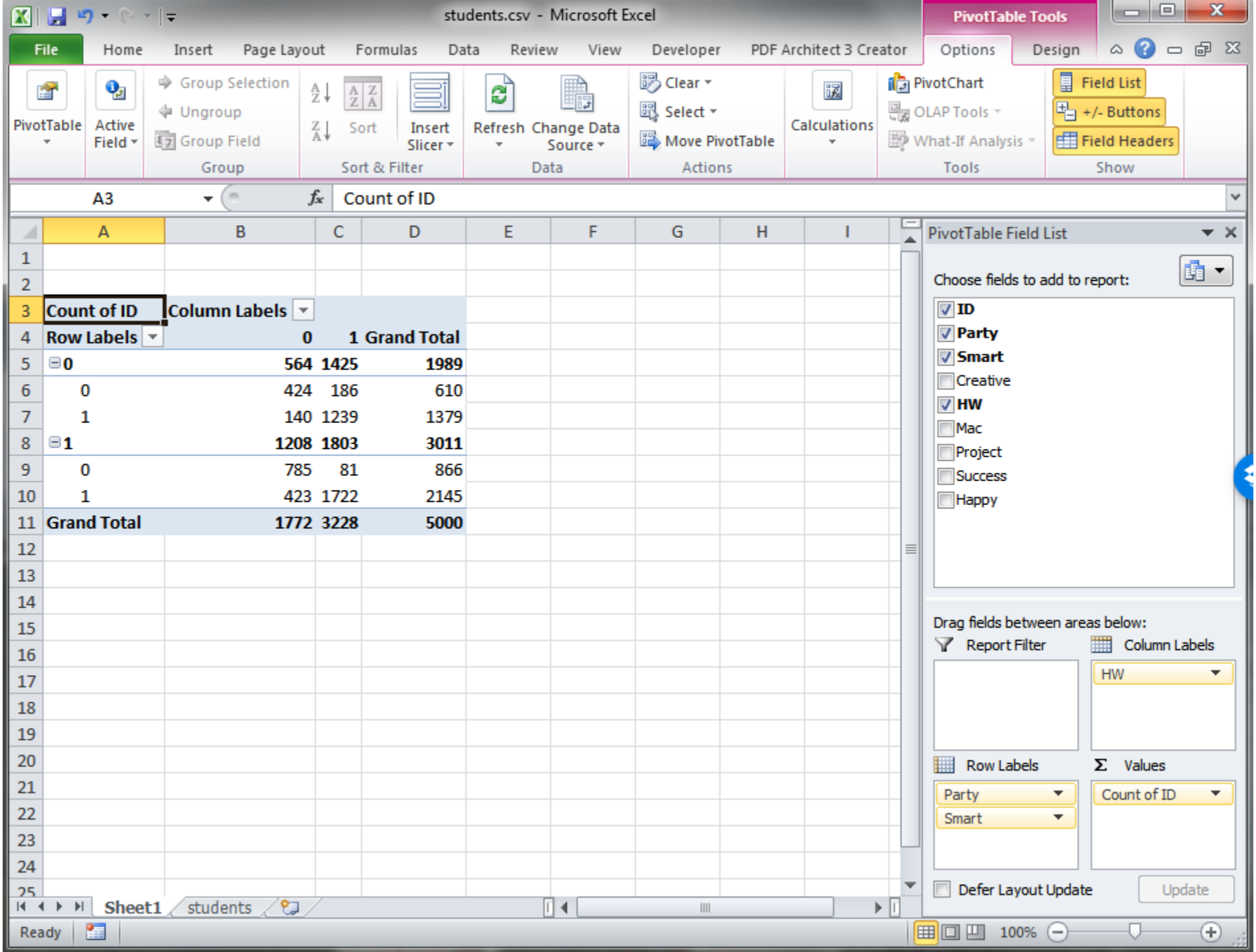

students.csv - Microsoft Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
PivotTable
Table
Picture
Clip Art
Shapes
SmartArt
Screenshot
Column
Line
Pie
Bar
Area
Scatter
Other Charts
Line
Column
Win/Loss
Slicer
Hyperlink
Text Box
Header & Footer
Equation
Symbol
Tables
Illustrations
Charts
Sparklines
Filter
Links
Text
Symbols
Insert PivotTable
Click here to summarize data using a PivotTable or to insert a PivotChart.
PivotTables make it easy to arrange and summarize complicated data and drill down on details.
fx
1
D Creative
E HW
F Mac
G Project
H Success
I Happy
students
Ready
100%

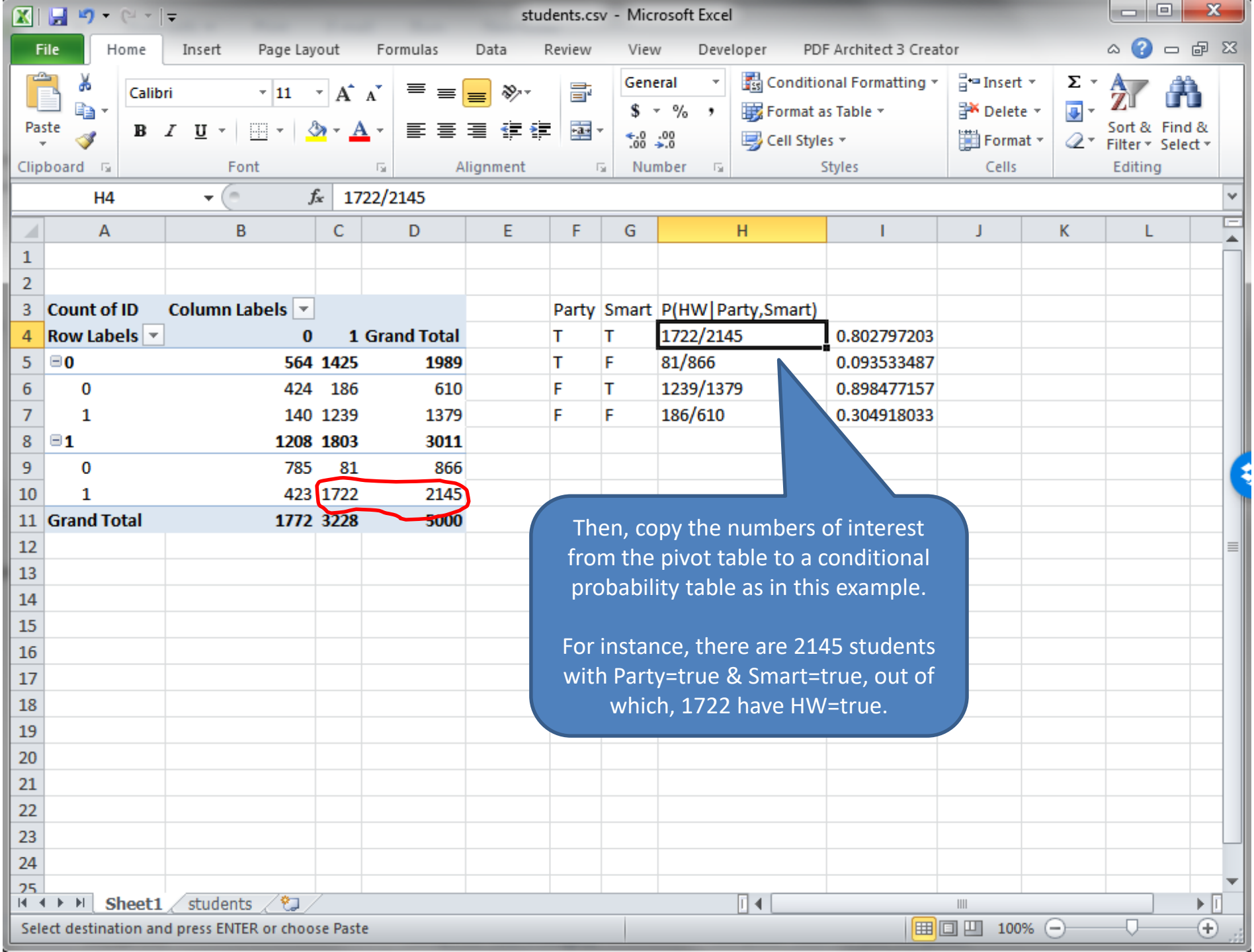

students.csv - Microsoft Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
PivotTable
Table
Picture
Clip Art
Shapes
SmartArt
Screenshot
Column
Line
Area
Pie
Scatter
Bar
Other Charts
Line
Column
Win/Loss
Slicer
Hyperlink
Text Box
Header & Footer
Equation
Symbol
Tables
Illustrations
Charts
Sparklines
Filter
Links
Text
Symbols
A1
1
ID Party Smart Creative HW Mac Project Success Happy
1 0 1 1 1 1 0 0 0
2 1 1 0 1 1 1 1 1
3 0 1 1 1 1 1 1 0
4 0 1 1 1 0 1 1 1
5 1 1 0 0 1 1 1 1
6 0 1 1 1 1 1 1 0
7 1 1 1 1 1
8 1 1 1 1 1
9 1 0 1 0 0
10 1 1 1 0 1
11 0 1 0 1 0
12 0 1 1 1 1
13 1 1 1 0 0
14 1 1 1 0 1
15 1 1 1 1 0
16 1 1 1 0 0
17 0 0 1 0 1
18 0 1 0 1 1
19 1 1 1 1 0
20 0 1 1 1 1
21 1 1 1 1 1
22 1 0 1 0 1
23 1 1 1 1 0
24 0 1 0 1 1
Create PivotTable
Choose the data that you want to analyze
Select a table or range
Table/Range: students!$A$1:$I$5001
Use an external data source
Choose Connection...
Connection name:
Choose where you want the PivotTable report to be placed
New Worksheet
Existing Worksheet
Location:
OK
Cancel
Keep the defaults
students
Point
100%

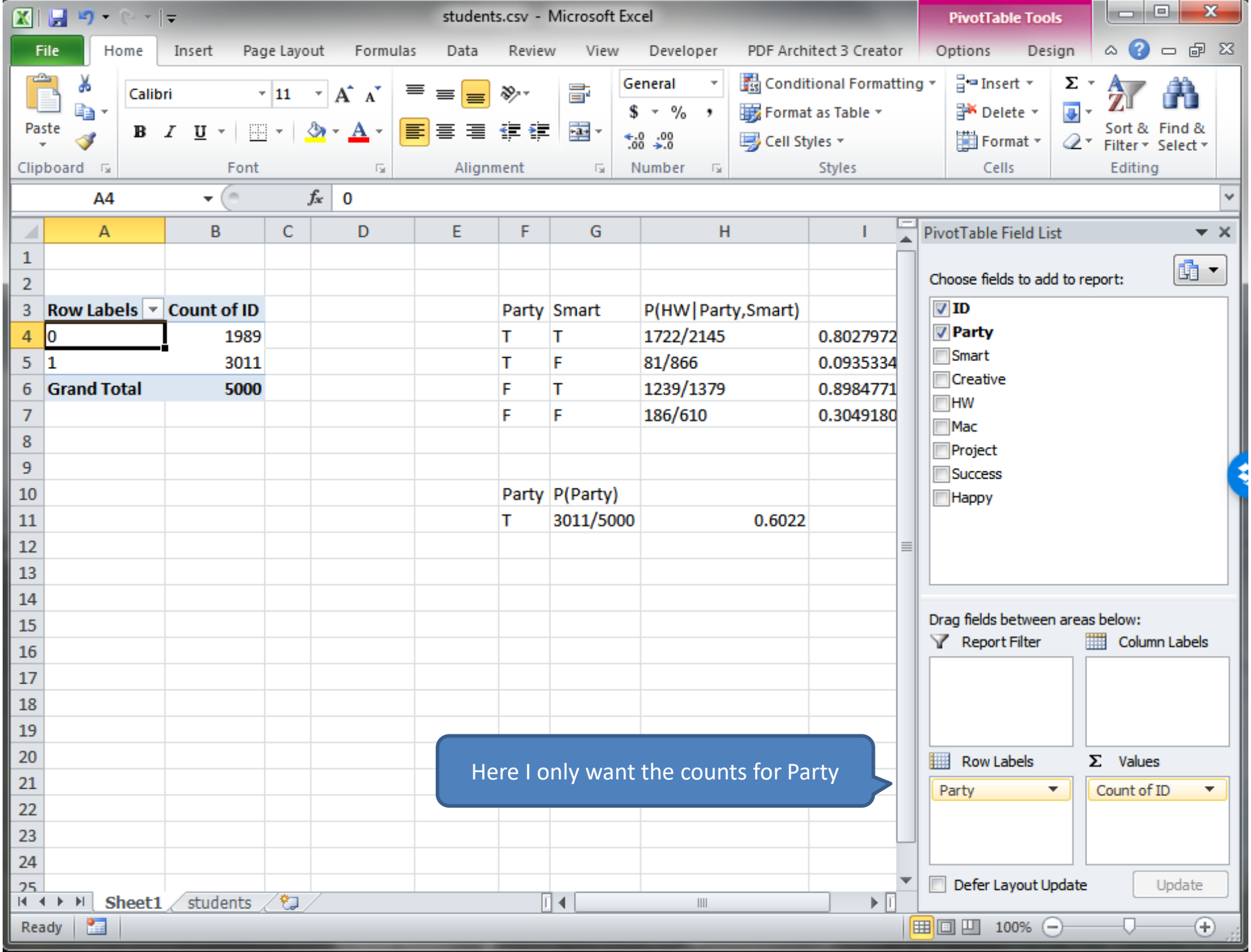

students.csv - Microsoft Excel
PivotTable Tools
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
Options
Design
PivotTable
Active Field
Group Selection
Ungroup
Group Field
Group
Sort
Insert Slicer
Sort & Filter
Refresh
Change Data Source
Data
Clear
Select
Move PivotTable
Actions
Calculations
PivotChart
OLAP Tools
What-If Analysis
Tools
Field List
+/- Buttons
Field Headers
Show
A3
Sum of ID
Sum of ID
Column Labels
Row Labels
0
1
Grand Total
0 1407668 3585075 4992743
0 1068627 476738 1545365
1 339041 3108337 3447378
1 2989679 4520078 7509757
0 1944466 187594 2132060
1 1045213 4332484 5377697
Grand Total 4397347 8105153 12502500
PivotTable Field List
Choose fields to add to report:
ID
Party
Smart
Creative
HW
Mac
Project
Success
Happy
Drag fields between areas below:
Report Filter
Column Labels
HW
Row Labels
Values
Party
Smart
Sum of ID
Defer Layout Update
Update
Drag and drop ID in “Values”. Then change “Sum of ID” to “Count”
Drag and drop HW in “Column Labels”
Drag and drop Party and Smart in “Row Labels”
Sheet1
students
Ready
100%

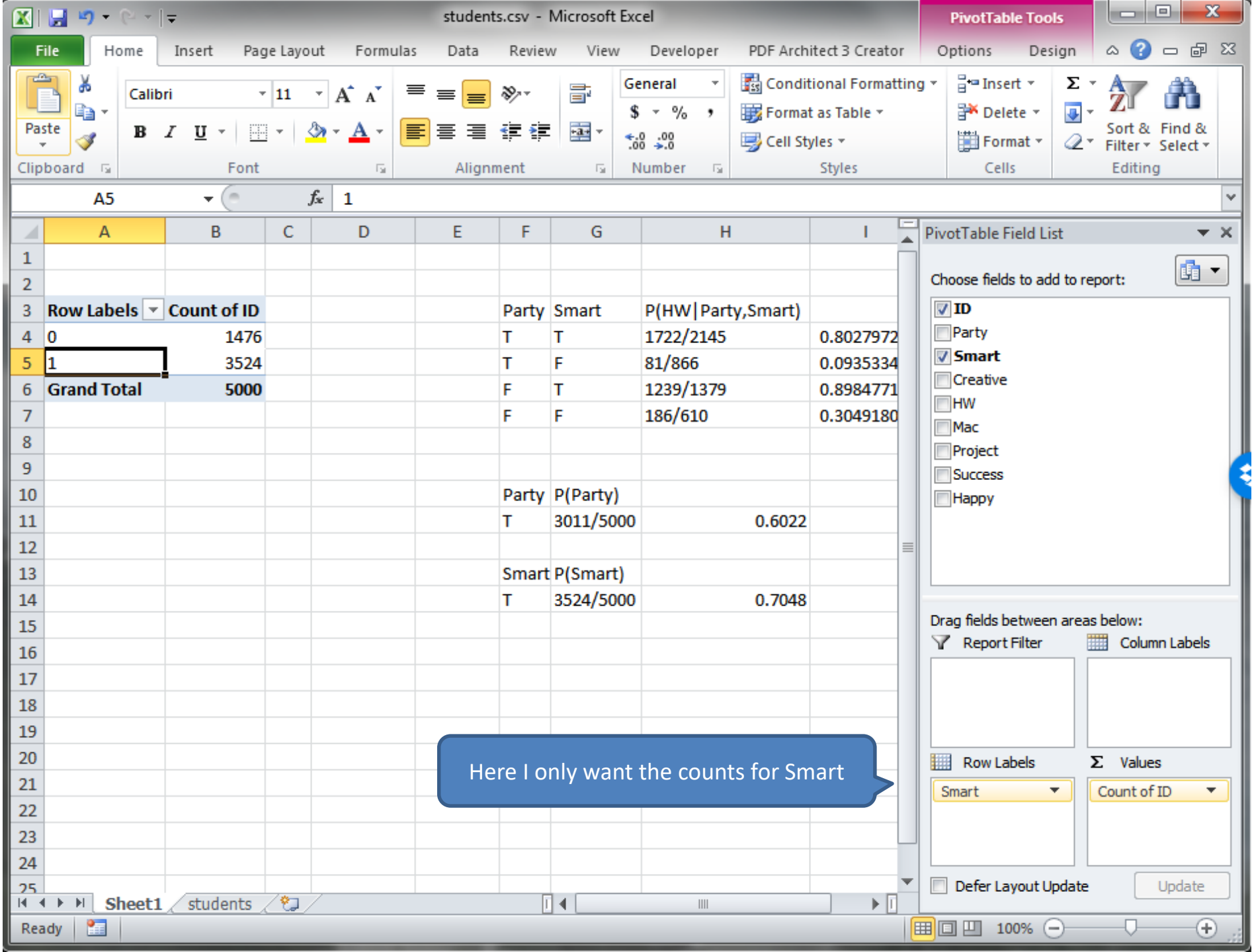

students.csv - Microsoft Excel
PivotTable Tools
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
Options
Design
PivotTable
Active Field
Group Selection
Ungroup
Group Field
Group
Sort
Insert Slicer
Sort & Filter
Refresh
Change Data Source
Data
Clear
Select
Move PivotTable
Actions
Calculations
PivotChart
OLAP Tools
What-If Analysis
Tools
Field List
+/- Buttons
Field Headers
Show
A3
Sum of ID
Sum of ID
Column Labels
Row Labels
0
1
Grand Total
0 1407668 3585075 4992743
0 1068627 476738 1545365
1 339041 3108337 3447378
1 2989679 4520078 7509757
0 1944466 187594 2132060
1 1045213 4332484 5377697
Grand Total 4397347 8105153 12502500
PivotTable Field List
Choose fields to add to report:
ID
Party
Smart
Creative
HW
Mac
Project
Success
Happy
Drag fields between areas below:
Report Filter
Column Labels
HW
Row Labels
Values
Party
Smart
Sum of ID
Defer Layout Update
Move Up
Move Down
Move to Beginning
Move to End
Move to Report Filter
Move to Row Labels
Move to Column Labels
Move to Values
Remove Field
Value Field Settings...
Sheet1
students
Ready
100%


students.csv - Microsoft Excel
PivotTable Tools
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
Options
Design
PivotTable
Active Field
Group Selection
Ungroup
Group Field
Group
Sort
Insert Slicer
Sort & Filter
Refresh
Change Data Source
Data
Clear
Select
Move PivotTable
Actions
Calculations
PivotChart
OLAP Tools
What-If Analysis
Tools
Field List
+/- Buttons
Field Headers
Show
A3
Sum of ID
Sum of ID
Column Labels
Row Labels
0
1
Grand Total
0 1407668 3585075 4992743
0 1068627 476738 1545365
1 339041 3108337 3447378
1 2989679 4520078 7509757
0 1944466 187594 2132060
1 1045213 4332484 5377697
Grand Total 4397347 8105153 12502500
PivotTable Field List
Choose fields to add to report:
ID
Party
Smart
Creative
Value Field Settings
Source Name: ID
Custom Name: Count of ID
Summarize Values By
Show Values As
Summarize value field by
Choose the type of calculation that you want to use to summarize data from the selected field
Sum
Count
Average
Max
Min
Product
Number Format
OK
Cancel
Column Labels
HW
Values
Sum of ID
Defer Layout Update
Update
Sheet1
students
Ready
100%


students.csv - Microsoft Excel
PivotTable Tools
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
Options
Design
PivotTable
Active Field
Group Selection
Ungroup
Group Field
Group
Sort
Insert Slicer
Sort & Filter
Refresh
Change Data Source
Data
Clear
Select
Move PivotTable
Actions
Calculations
PivotChart
OLAP Tools
What-If Analysis
Tools
Field List
+/- Buttons
Field Headers
Show
A3
Count of ID
Count of ID
Column Labels
Row Labels
0
1
Grand Total
0 564 1425 1989
0 424 186 610
1 140 1239 1379
1 1208 1803 3011
0 785 81 866
1 423 1722 2145
Grand Total 1772 3228 5000
PivotTable Field List
Choose fields to add to report:
ID
Party
Smart
Creative
HW
Mac
Project
Success
Happy
Drag fields between areas below:
Report Filter
Column Labels
HW
Row Labels
Values
Party
Smart
Count of ID
Defer Layout Update
Update
Sheet1
students
Ready
100%


students.csv - Microsoft Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
Paste
Calibri
11
General
Conditional Formatting
Format as Table
Cell Styles
Insert
Delete
Format
Sort & Filter
Find & Select
Clipboard
Font
Alignment
Number
Styles
Cells
Editing
H4
1722/2145
Count of ID
Column Labels
Row Labels
0
1
Grand Total
0 564 1425 1989
0 424 186 610
1 140 1239 1379
1 1208 1803 3011
0 785 81 866
1 423 1722 2145
Grand Total 1772 3228 5000
Party
Smart
P(HW|Party,Smart)
T T 1722/2145 0.802797203
T F 81/866 0.093533487
F T 1239/1379 0.898477157
F F 186/610 0.304918033
Then, copy the numbers of interest from the pivot table to a conditional probability table as in this example.
For instance, there are 2145 students with Party=true & Smart=true, out of which, 1722 have HW=true.
Sheet1
students
Select destination and press ENTER or choose Paste
100%


students.csv - Microsoft Excel
PivotTable Tools
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
Options
Design
Paste
Clipboard
Calibri
11
Font
Alignment
General
Number
Conditional Formatting
Format as Table
Cell Styles
Styles
Insert
Delete
Format
Cells
Sort & Filter
Find & Select
Editing
A4
0
Row Labels
Count of ID
0
1989
1
3011
Grand Total
5000
Party
Smart
P(HW|Party,Smart)
T
T
1722/2145
0.8027972
T
F
81/866
0.0935334
F
T
1239/1379
0.8984771
F
F
186/610
0.3049180
Party
P(Party)
T
3011/5000
0.6022
Here I only want the counts for Party
PivotTable Field List
Choose fields to add to report:
ID
Party
Smart
Creative
HW
Mac
Project
Success
Happy
Drag fields between areas below:
Report Filter
Column Labels
Row Labels
Values
Party
Count of ID
Defer Layout Update
Update
Sheet1
students
Ready
100%


students.csv - Microsoft Excel
PivotTable Tools
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
PDF Architect 3 Creator
Options
Design
Paste
Clipboard
Calibri
11
Font
Alignment
General
Number
Conditional Formatting
Format as Table
Cell Styles
Styles
Insert
Delete
Format
Cells
Sort & Filter
Find & Select
Editing
A5
1
Row Labels
Count of ID
0
1476
1
3524
Grand Total
5000
Party
Smart
P(HW|Party,Smart)
T
T
1722/2145
0.8027972
T
F
81/866
0.0935334
F
T
1239/1379
0.8984771
F
F
186/610
0.3049180
Party
P(Party)
T
3011/5000
0.6022
Smart
P(Smart)
T
3524/5000
0.7048
Here I only want the counts for Smart
PivotTable Field List
Choose fields to add to report:
ID
Party
Smart
Creative
HW
Mac
Project
Success
Happy
Drag fields between areas below:
Report Filter
Column Labels
Row Labels
Values
Smart
Count of ID
Defer Layout Update
Update
Sheet1
students
Ready
100%