Get Started with Your First Analysis

The simplest way to get comfortable with Datameer's capabilities is to use this short tutorial to make your first analysis. In ten minutes, you can go from CSV data to a meaningful analytical infographic. For this tutorial, you calculate and visualize the average age of sample users based on the city they live in.

Working with this Tutorial

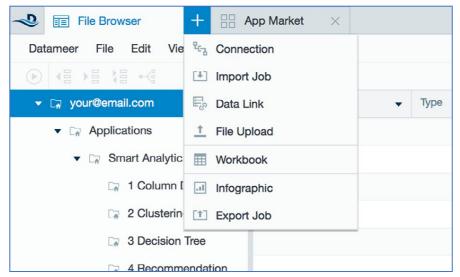
These instructions can be found in PDF format by opening Datameer and doubleclicking the file. Open to download this file and follow the instructions.

INFO: For Datameer versions prior to 7.4.x, please refer to the instructions found later in this section to complete the 'Hello World' tutorial.

Part One: Workbook Analysis

INFO: In this section, you add data to your workbook and use some functions to prepare your data for visualization.

- 1. Select your home folder in Datameer's 'File Browser'.
- 2. Select **"Workbook"** from the '+' menu in the top bar. *The 'Add Data' windows opens.*



3. Select "Sample CSV Data".

Add Data X											
(i) This will add a preview of the data to the workbook. Learn More About											
/Users/katarina.howald@datameer.com/Sample CSV Data											
▼ L _n your@email.com	Name	Туре	Crea	Last	Last						
✓ □ Applications	1 Sample CSV Data	upl	2015	2015	2015						
Smart Analytics	FDF Getting Started	pdf									
▼ □ 01. Start Here											
▼ □ 1. Tutorial Hello Wo											
Resources											
▼ □ 2. Tutorial Basic											
Resources											
3. Tutorial Click Pat											

- 4. Click "Add Data". The workbook opens with the sample data.
- 5. Click the "+" icon next to the sheet name 'Sample_SCV_Data' at the bottom of the workbook to create a new sheet. *The 'Formula Builder' opens.*

6	Matthew	28	Boston						
7	Tucker	65	New York						
8	Ariana	32	Austin						
9	Vladimir	49	New York						
10	Holly	30	San Franc						
11	Gannon	67	Chicago						
12	Dale	34	San Franc						
13	Jael	23	San Franc						
14	Cherokee	62	New York						
15									
I∢∢►►I 🗄 Sample_CSV • (+)									

- 6. Select the **"Grouping"** category from the column on the left.
- 7. Select "**GROUPBY**" to combine the different values (in this case 'City') and group them together so the data is more easily parsed.
- 8. Add an argument by clicking the **"Sample_CSV_Data"** tab to return to the first sheet.

INFO: If the 'Formula Builder' covers the sheet names at the bottom, drag it to the right to find the 'Sample_CSV_Data' sheet.

9. Click the "City" column of the sheet. The 'Arguments' field is populated.

Dat	ameer File	Edit Sheets	Smart Analytics	View	Formula Builder		
+		E E 7	& ≎ ^A _Z ⊗	¢ "	(i) Easily create formulas by selecting a arguments into the function. Learn More About	an appropriate function. After making a selection, enter the	
	Name	Age	City	D			
	Jacob	28	San Franc_		Type to search formula		
	Ronan	17	San Franc_			GROUPACCUMULATE	
	Coby	18	San Franc_		Comparison	GROUPAND	
4	Regan	50	New York _		Date and time	GROUPANOVA	
5	Larissa	43	Chicago		Encoding	GROUPANY	
	Matthew	28	Boston		File	GROUPAVERAGE	
	Tucker	65	New York _		General	GROUPBOTTOMN	
8	Ariana	32	Austin		Grouping	GROUPBY	
	Vladimir	49	New York		HTML.	GROUPBYBIN	
	Holly	30	San Franc_		Lists	GROUPBYCUSTOMBIN	
11	Gannon	67	Chicago		Logical	GROUPBYGAP	
	Dale	34	San Franc_		GROUPBY: Groups records.		
	Jael	23	San Franc_		GROUPBY Online Documentation and S	Samples	
14	Cherokee	62	New York -		Arguments:		
	Berk	20	Boston		Any*	#Sample_CSV_Data!City	
16	Jayme	34	Boston		* required		
17	Astra	45	Austin		roquios.		
	Neve	22	Boston			Cancel	r.
	Scarlett	30	Boston				
20	Elmo	31	Austin				
	Christen	19	Boston				

- 10. Click "OK". A new 'City' column appears on 'Sheet1'. INFO: Now the city values are aggregated to just show each unique city.
- 11. Click in the second column (column 'B') of 'Sheet1' to add a second function.
- 12. In the 'Formula Builder' select the **"Grouping"** category and **"GROUPAVERAGE"** function.

INFO: This function uses the grouping already created created ('City') and calculates the average of another column ('Age') for that grouping.

Dat	ameer File	Edit Sheets	Smart Analytics	View Help						
+	B B	6 5 7	″ & ⇒ž ⊙	C 🖫 •C	đ) 🔚 🖬 🕦 🕒 🦮 🔍 🔄 🖷 🖬 📢				
	= GROUPAVER	AGE(#Sample_0	CSV_DatalAge)							
	Name	Age	City	D	E	5 Formula Builder				
	Jacob	28	San Franc			(i) Easily create formulas by selecting an appropriate function. After making a selection, enter the				
	Ronan	17	San Franc			arguments into the function. Learn More About				
	Coby	18	San Franc							
	Regan	50	New York			Type to search formula				
	Larissa	43	Chicago			GROUPACCUMULATE				
	Matthew	28	Boston			Comparison GROUPAND				
	Tucker	65	New York			Date and time GROUPANOVA				
	Ariana	32	Austin			Encoding GROUPANY				
	Vladimir	49	New York			File GROUPAVERAGE				
	Holly	30	San Franc			General GROUPBOTTOMN				
	Gannon	67	Chicago			Grouping GROUPBY				
	Dale	34	San Franc			HTML GROUPBYBIN				
	Jael	23	San Franc			Lists GROUPBYCUSTOMBIN				
	Cherokee	62	New York			Logical				
	Berk	20	Boston			GROUPBYGAP GROUPAVERAGE: Returns the average of its arguments.				
3	Jayme	34	Boston			GROUPAVERAGE Online Documentation and Samples				
	Astra	45	Austin			Arguments:				
1	Neve	22	Boston			Number* III #Sample_CSV_DatalAge				
6	Scarlett	30	Boston			* required				
)	Elmo	31	Austin			Cancel OK				
	Christen	19	Boston			Cancel OK				

- 13. Click the "Age" column for the argument from the 'Sample_CSV_Data' sheet.
- 14. Click "**OK**". A new 'Average Age' column appears on 'Sheet1'. This shows the average age of the occupants per city.
- 15. Rename your workbook (in this example: 'My Workbook').

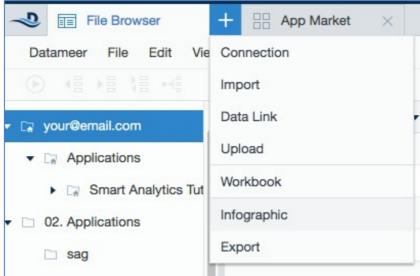
Save						×						
Saves workbook in the specified folder. Learn More About												
/Users/katarina.howald@datameer.com												
Name: My Workbook	My Workbook											
▼ Ca your@email.com	Name		Туре	Crea	Last	Last						
 Applications 	<u>†</u> Sar	mple CSV Data	upl	2015	2015	2015						
Smart Analytics	📄 Ge											
▼ □ 01. Start Here	III My											
🔻 🗀 1. Tutorial Hello Wo												
Resources												
▼ □ 2. Tutorial Basic												
Resources												
3. Tutorial Click Pat												
▼ □ 4. Smart Analytics 1												
1 Column Depe												
2 Clustering												
C 3 Decision Tree	_				-							
Run Workbook After Save												
Process now: Start calculation process immediately after	r save											
		Close	Save									

- 16. Click "Save".
- 17. Select **"Start calculation process immediately after save"** at the bottom of the 'Workbook Settings' page.
- 18. Confirm with "Save".

Part Two: Create a Visualization

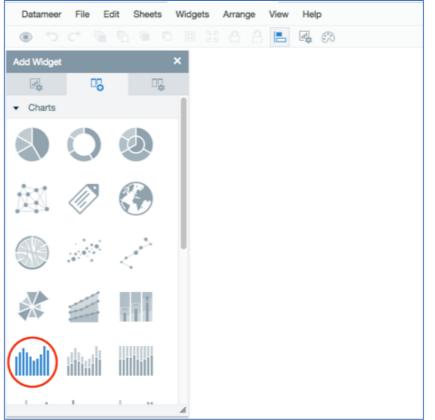
INFO: Now that you've prepared your data, making a visualization helps you see relationships in the data. Datameer offers many different types of graphs and charts, but for this tutorial, you use a multi-bar chart to find the relationship between 'Age' and 'City' location.

- 1. Select your home folder in the 'File Browser'.
- 2. Select "Infographic" from the '+' menu in the top bar.

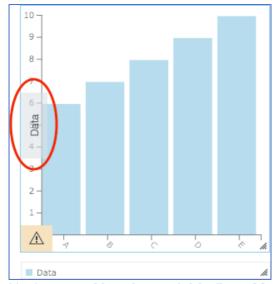


3. Select a 'Multi-bar chart' from the 'Add Widget' tool box and drag and drop it to the middle of the page.

INFO: A multi-bar chart is a great choice because it shows the simple relationship between the data.



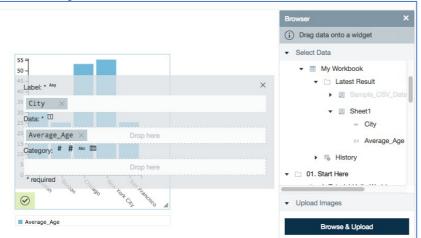
4. Click the **"Data"** tab on the widget to show which properties need to be entered for the configuration.



 Navigate to "Your home folder" -> "My Workbook" in the 'Browser' tool box on the right. From there, open "Latest Results" -> "Sheet1" by clicking the arrow next to the name.

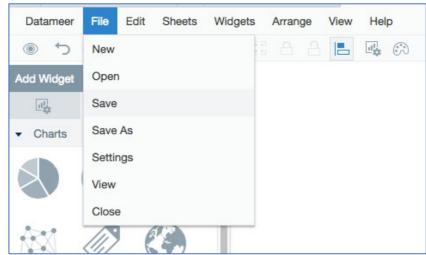
INFO: If your workbook is still running, wait for the results. If it hasn`t run yet, right-click the workbook in the 'File Browser' and select "Run".

6. Drag the 'City' column to the 'Label' field and the 'Average Age' column to the 'Data' field of the widget. *The updated widget now shows you the relationship beween 'Age' and 'Location'.*



7. Click off the chart to close the 'Data' tab and view the chart, which shows you that the average age in New York City is the oldest of the cities included. Hover over the columns to see the information.

8. Select **"Save"** from the 'File' menu.



9. Name your infographic and confirm with "Save". INFO: If you close your infographic and want to view it again, open the infographic in the 'File Browser' by double-clicking the name of your infographic to view your chart.

Congratulations!

You've now performed your first analysis! Enjoy exploring Datameer, and for more information and help along the way, check out our user documentation.