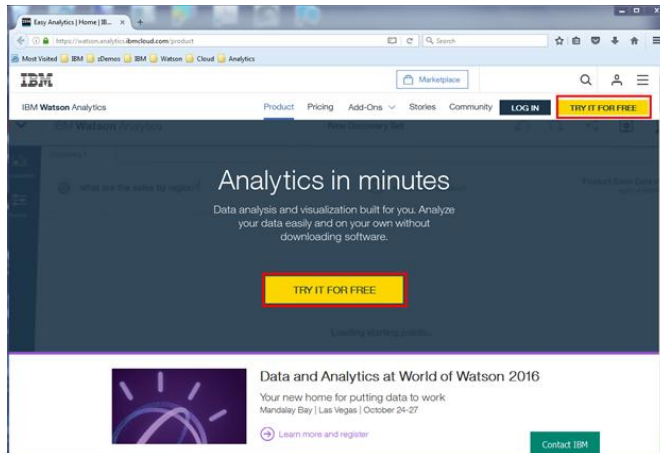


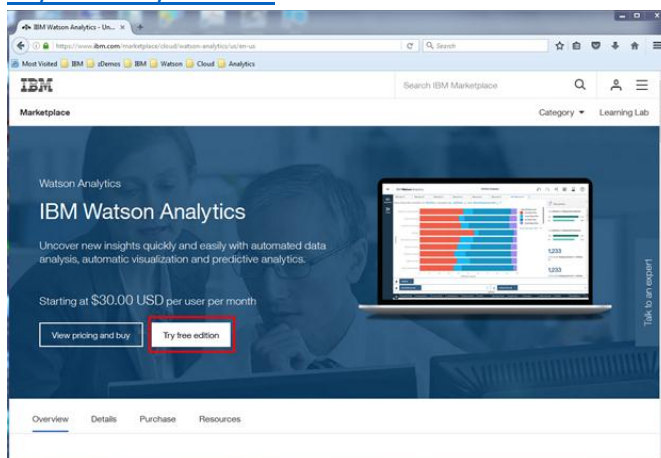
Watson Analytics SigMo Experience

Setup your own account:

- 1) Open a browser and go to “watsonanalytics.com”. This will redirect you to the URL: <https://watson.analytics.ibmcloud.com/product> and click on “TRY IT FOR FREE” button as shown below:



- 2) You have the option to click on “View pricing and buy” from the next screen. Watson Analytics provides 2 paid editions “Plus” and “Professional” with monthly license charges of \$30 and \$80, with included storage of 2GB and 100GB respectively. For now, let’s go with the “Free” license and click on “Try free edition”. To read more about the editions, please check out: <https://www.ibm.com/analytics/watson-analytics/us-en/solution/editions>




- 3) You will be taken to the “Purchase” page, from where click on “Try free edition”. This will set up a “Free” account that supports 1MB of storage for a single user for an indefinite period and a 30-day trial of the Professional single user account. The “Free” account only allows text files to be uploaded into Watson Analytics, whereas from

Overview
Details
Purchase
Resources

Product pricing

Free	Plus	Professional
<p>Upload spreadsheets, get visualizations, discover insights and build dashboards—all on your own.</p> <p>Starting at \$ 0⁰⁰ USD</p> <p>Try free edition</p>	<p>Get all the features of Free plus more storage and data sources, including databases and Twitter.</p> <p>Starting at \$ 30⁰⁰ USD</p> <p>per user per month</p> <p>Purchase now</p>	<p>Get all the features of Plus plus a multi-user tenant to collaborate, more storage and more data.</p> <p>Starting at \$ 80⁰⁰ USD</p> <p>per user per month</p> <p>Purchase now</p>

- 

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Sign up for IBM Watson Analytics free edition.

Already have an IBMid?

Step 1 of 2

Email address

Email is required

Password

First name

Last name

Company

Phone number

Country/region

United States


State

Select one

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IBMid:

Enter email confirmation code (check email)

Resend

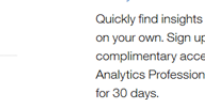
We have sent a confirmation code to verify your IBMid email address.

Company

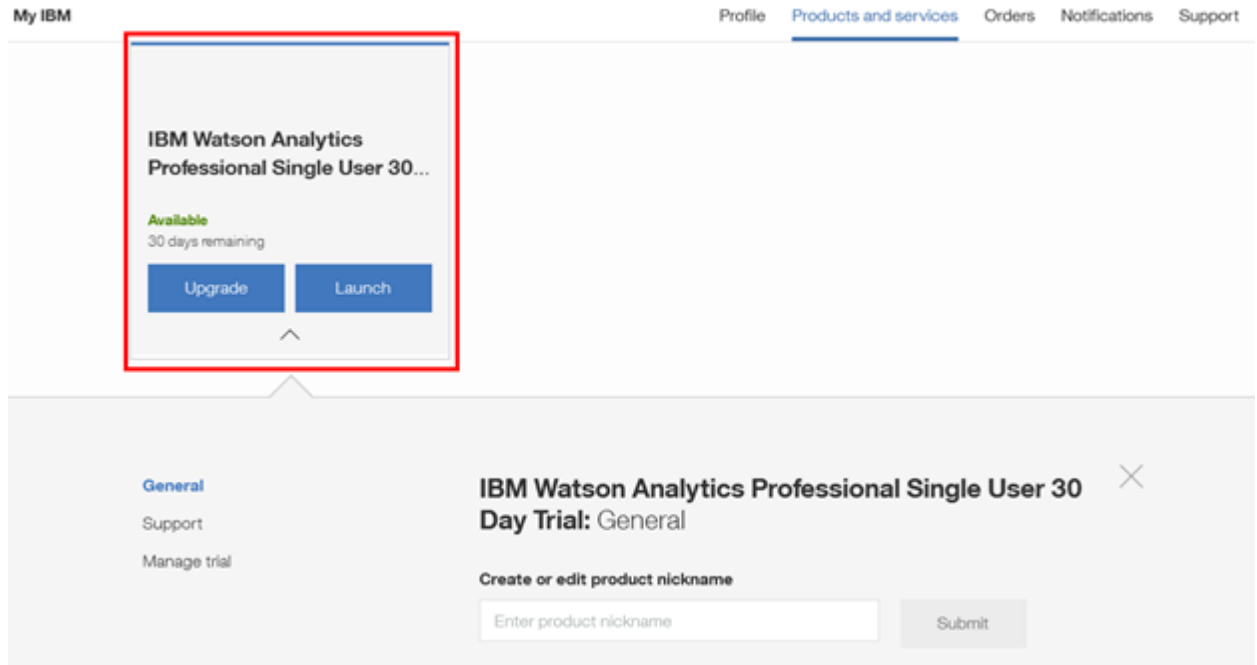
Phone number

I accept the IBM Privacy Statement and Terms and Conditions.

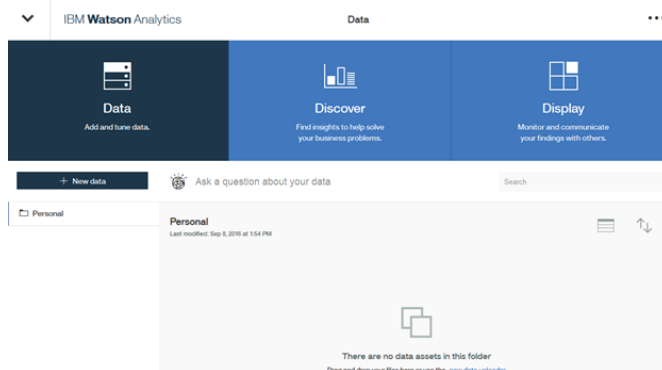
Sign up



- 6) At this point, you will see a status screen saying “Your services are being setup” but within a few seconds your account will be setup and you’ll see a page as below confirming your 30-day trial subscription to “IBM Watson Analytics Professional Single User”!



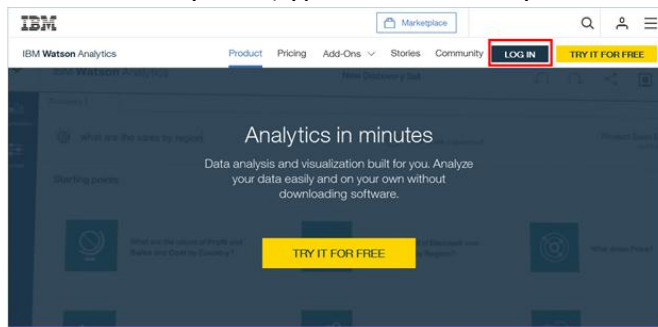
- 7) You can now login to Watson Analytics by clicking on “Launch” button or directly go to Watson Analytics sign-on site from the homepage watsonanalytics.com. After you login, you should see the page below and you are now ready to upload data for an amazing experience of guided self-service analytics!



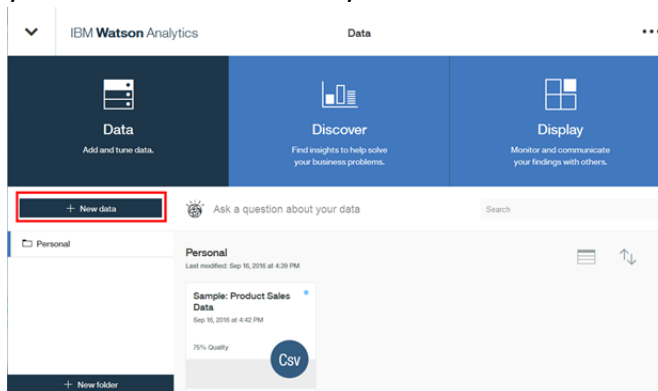
Use an existing account:

- 1) Logon to Watson Analytics by going to page “watsonanalytics.com” on a browser and clicking on “LOG IN” blue button on the top right. You can use your own IBMid or one of the following IDs cpoalys2@gmail.com, cpoalys3@gmail.com,

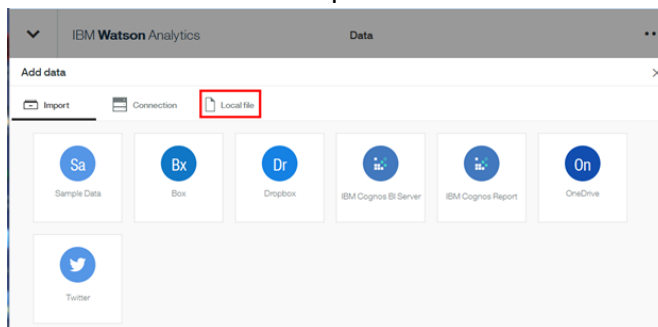
cpoalys4@gmail.com, or cpoalys5@gmail.com and the password is the same for all of them “analytics” (type exclamation symbol instead of “l”).



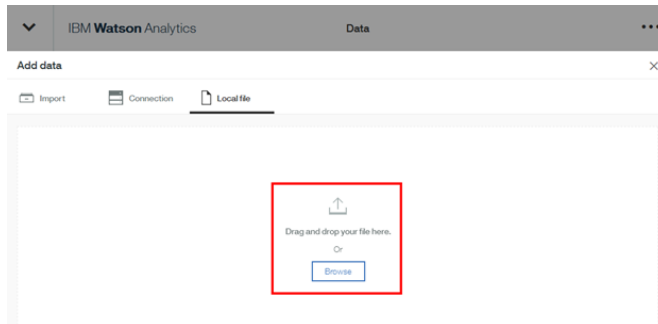
- 2) Click on “+ New data” button towards the top left as highlighted below. This will let you add a new dataset to your “Personal” folder.



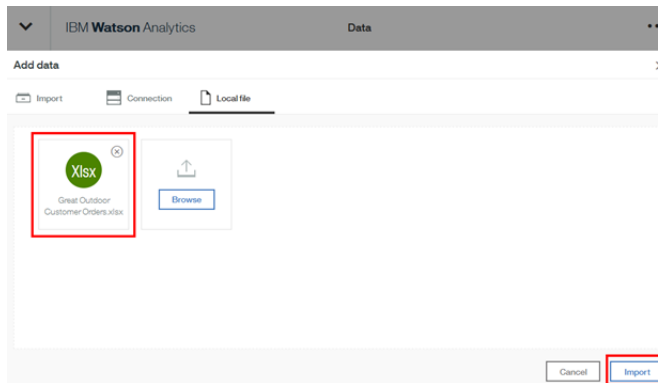
- 3) You should now be able to read in a spreadsheet “Great Outdoor Customer Orders.xlsx” that you can download from the Github link:
<https://github.com/ibmdataworks/sigmo-demos/tree/master/business-analyst>
Click on “Local file” to import the dataset into Watson Analytics.



- 4) You can now either drag and drop the spreadsheet or click on “Browse” to select the file from the folder where you downloaded the dataset from Github.

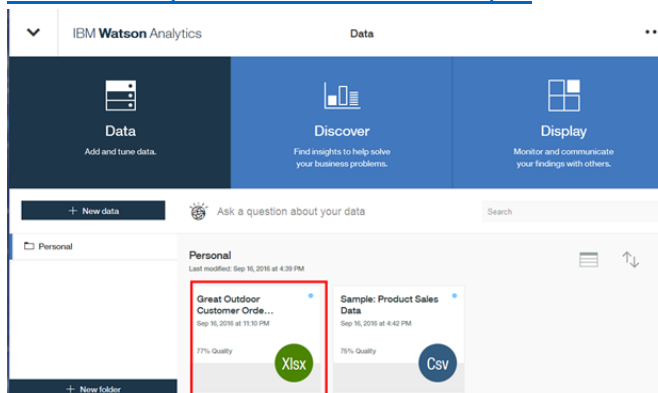


- 5) Next, you should see an icon for the file on the screen and now click on “Import” button on bottom right to upload the spreadsheet to Watson Analytics.

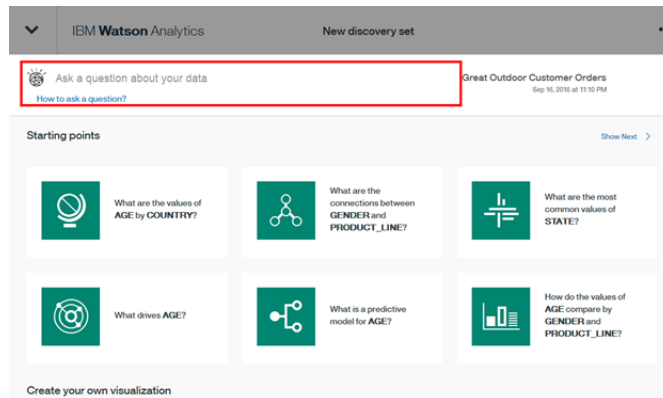


- 6) In less than a minute (usually within 30 seconds), the input file is uploaded and processed and shows up as an entry in the Personal folder as shown below. Watson Analytics processes the file to measure its usefulness for analytics and computes a data quality score. The data quality score (77% for this file) is computed as an average of the score of all fields and is influenced by missing values, constant values, imbalance (skews and outliers). To read more about data loading and data quality, please check out:

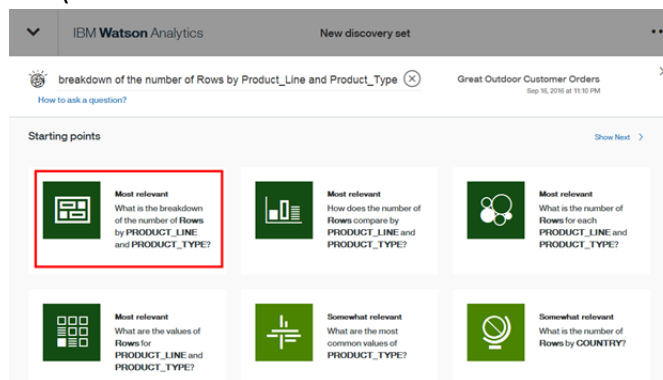
<https://community.watsonanalytics.com/discussions/storage/attachments/816-watson-analytics-intro-to-data-v-2-1.pdf>



- 7) You are now all set to start looking at the interesting insights Watson Analytics automatically finds from the data. Just click on the dataset and you'll be taken to a screen labelled as "New Discovery Set" as shown below. As "Starting points", 6 different visualizations are automatically recommended for you to explore (you can click on "Show Next" on the top right to see the next set of guided visualizations), but you can create your own visualization selecting from the 20 different chart types in the bottom of the screen. You also have an option to type in a natural language question on the top and Watson Analytics will suggest an appropriate visualization that likely answers that question!

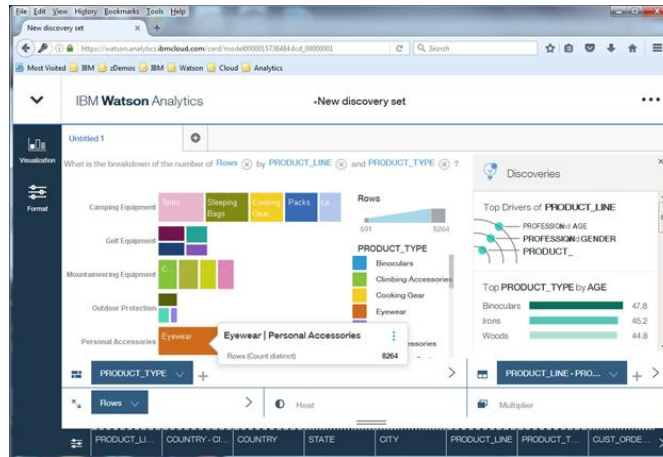


- 8) Let's scroll back to the top and type in a question "What is the breakdown of the number of Rows by Product_Line and Product_Type?" and hit enter. You will automatically be provided a set of starting points starting with the most relevant visualization that helps answer your question! Let's click on the tree map on the top left (the first visualization listed as "Most relevant" under "Starting points").



- 9) Since each row of the spreadsheet is a customer transaction, the size of the rectangles in the Treemap represents the number of transaction for each product type such as "Tents", "Sleeping Bags", "Eyewear" etc. We can clearly see that most popular item for Great Outdoors is "Eyewear" and if you hover your mouse over that brown rectangle under "Personal Accessories", it tells you that there were a total of 8,264 transactions (out of a total of 62K transactions) for "Eyewear"! The next best

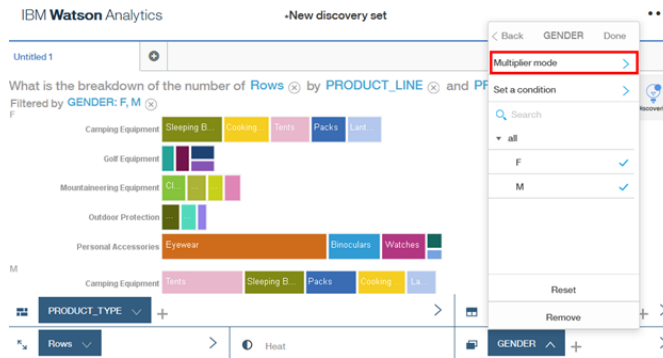
selling items in terms of total volume are “Tents” and then “Sleeping Bags”.



- 10) Several other automatically generated “Discoveries” are drawn on the right, but let’s click on the “x” button to close that pane, so as to lay out the Treemap across the entire screen to better visualize the chart. Now, let’s add a field to the “Multiplier” option as highlighted on the bottom right by clicking on it and then selecting “Gender” from the pulldown list.



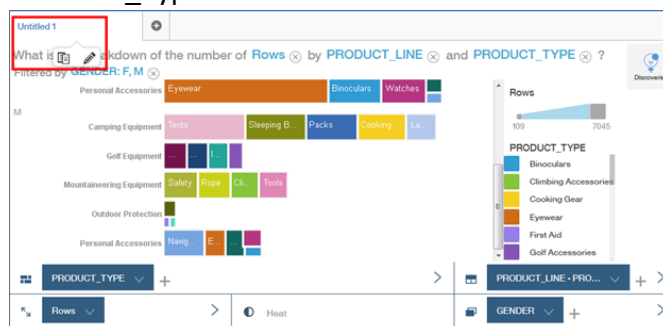
- 11) On the text box that pops up, make sure to click on arrow to the right of “Multiplier Mode” and select “Vertical”. This will lay out the Treemaps for Females (F) and Males (M), one below the other (versus the default “Horizontal” option, which is next to each other). This helps better use the screen space to see the Treemap more clearly for each Gender and observe the similarities and differences.



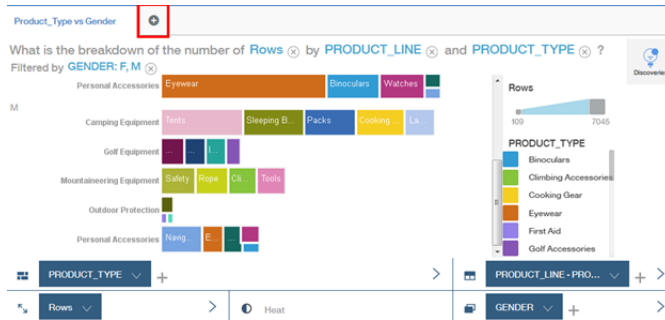
12) Comparing the Treemaps for the Women (F) and Men (M) respectively, we can clearly see that the most popular item for Women is “Eyewear”, whereas for Men, it is “Tents”! In the “Camping Equipment” category, Women buy more “Sleeping Bags” and then “Cooking Gear”



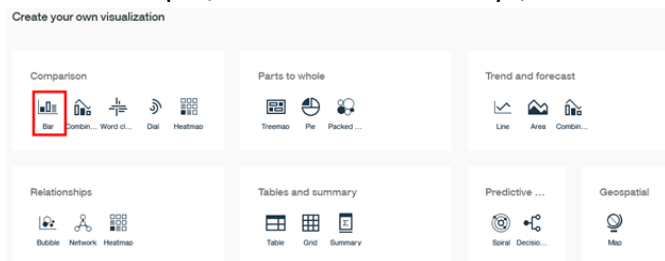
13) Let’s now add a title to this visualization by clicking on “Untitled 1” on the tab to the top left and then click on the pencil icon as shown below to type in a title “Product_Type vs Gender”.



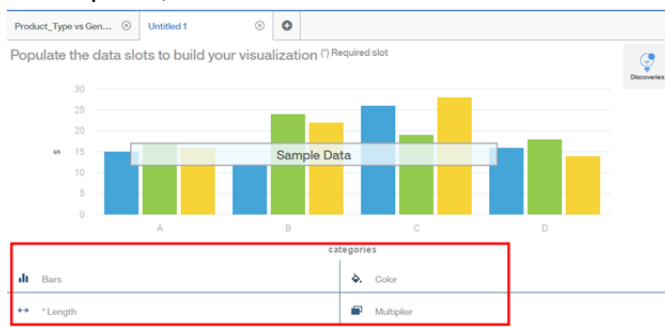
14) We will create a new visualization now to see the correlation of Age and Gender to Product_Line. Click on the “+” button to the right of the title tab of the visualization you just created as shown below:



- 15) You will be prompted with 6 “Starting points” again and instead of typing in a natural language question (you can type on the text box on the top left “How does the number of Rows compare by Age and Product_Line”), let’s create this new visualization by scrolling to the bottom and under “Create your own visualization”, pick the chart titled as “Bar” under “Comparison”. There are 20 different chart options categorized as “Comparison”, “Parts to whole”, “Trend and forecast”, “Relationships”, “Tables and Summary”, “Predictive ...” and “Geospatial”.

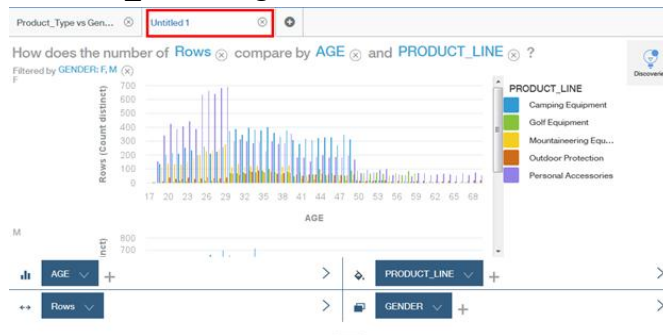


- 16) First, dismiss the “Discoveries’ pane on the right by clicking on the “x”, so as get more space to draw out the bar chart. You will see a sample “Bar Chart” and you have to now pick fields for the categories, “Bars”, “Length”, “Color” and “Multiplier”, as shown on the bottom of the chart as below:

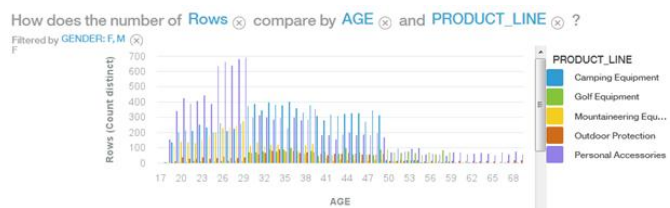


- 17) Click on “Bars” and select “Age” and then click on “Done” on the text box on the top right, then click on “Length” and select “Rows”, click on “Color” and select “Product_Line” and finally click on “Multiplier” and pick “Gender” and “Vertical” under “Multiplier mode” before hitting the Done button on the pop-up text box on the top right. You should now see a bar chart for the Great Outdoor data and create

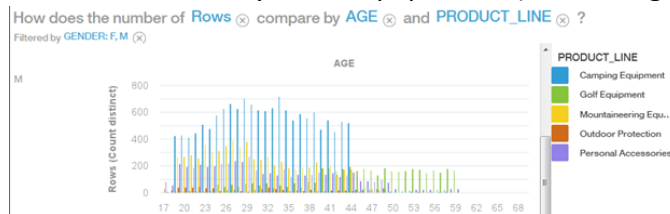
a title by clicking on “Untitled 1” tab and then the pencil icon and type “Product_Line vs Age and Gender”.




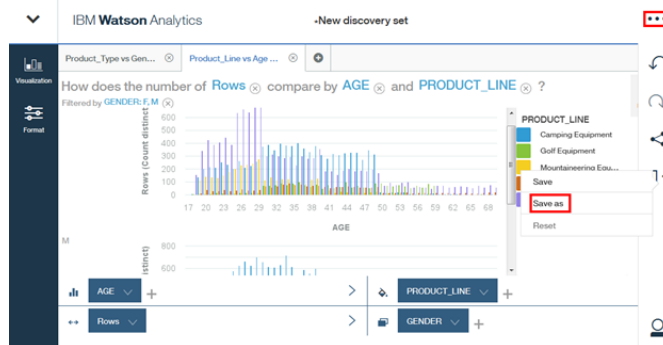
18) As you scroll through this discovery, you’ll notice that Females (F) below 30 years of age buy more “Personal Accessories” (shown in purple) and those between 30-48 buy more “Camping Equipment” (shown in blue).



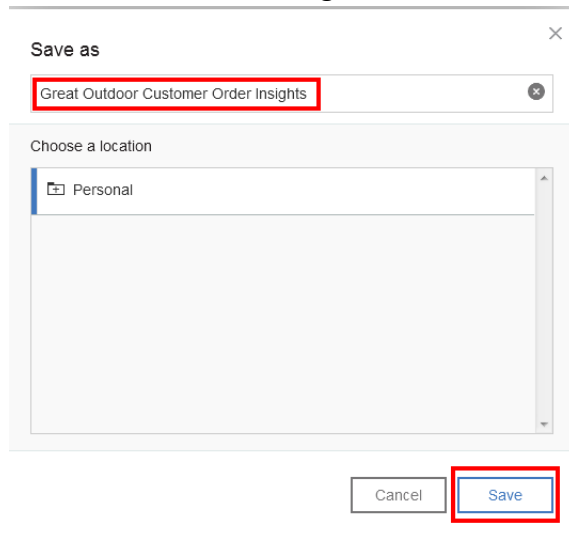
19) For Men (M) below age 44, they mostly buy “Camping Equipment” (shown in blue) and those older buy “Golf Equipment” (shown in green).



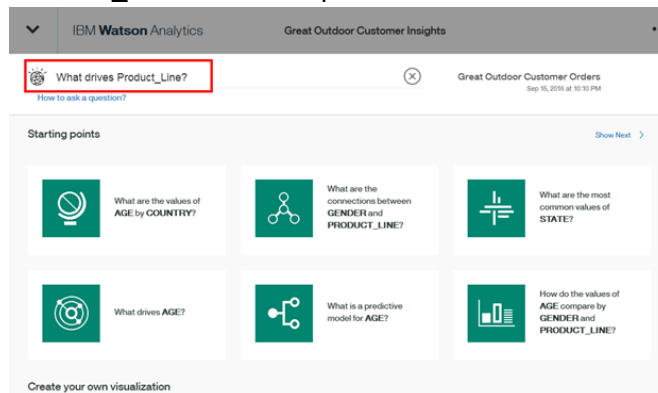
20) You can now save the “New discovery set” you just created by clicking on the “...” icon on the top right and selecting the “floppy disk” icon  below it (right in the middle) and pick “Save as”, as shown below



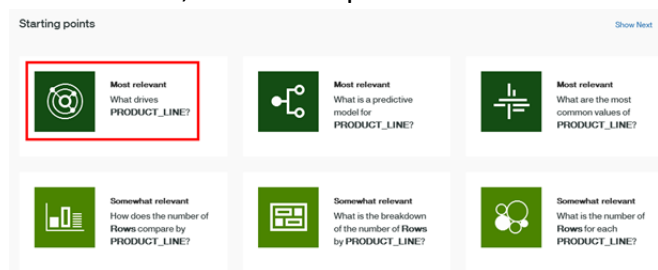
- 21) On the “Save as” text box that pops up, type “Great Outdoors Customer Order Insights” on the top left and save it in the “Personal” folder (only option available by default, unless you create new folders yourself) by clicking on the “Save” push button on the bottom right.



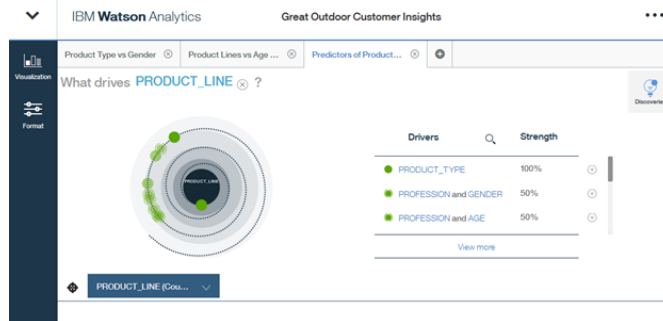
- 22) We will create one last visualization that will show us the attributes that helps predict “Product_Line”. Click on the “+” and type a question “What drives Product_Line” on the top left as shown below and hit enter.



- 23) This comes back with 6 starting points and pick the most relevant one (top left) as shown below, which is a Spiral chart.



24) Click on “x” on the Discoveries pane on the right hand side, so as to use the entire screen space for the spiral chart. You should see the top predictor as “Product_Type” with 100% strength (since each Product_Line has a set of unique Product_Types) right at the center of the bulls-eye and then the next relevant attributes are “Profession and Gender” and “Professional and Age” respectively, each with 50% predictive strength. Click on the “Untitled 1” label for this discovery on the tab on the top right and then click on the “pencil” icon and type in the label “Predictors for Product_Line”. You should now see the discovery as below:



25) The predictive insight gleaned from the “Spiral” chart says a Data Scientist can explore building machine learning models such as a “Decision Tree” using the same data with the “Data Science Experience” (DSX) too. There’s a separate lab exercise for the Data Scientist that does exactly that and you’re welcome to try that next!

26) Congratulations, you’re done with the lab exercise!