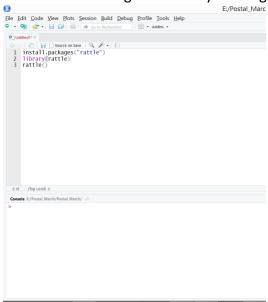
IMPORTANT: We trust that you will not read through this answer key until you have completed your own assignment.

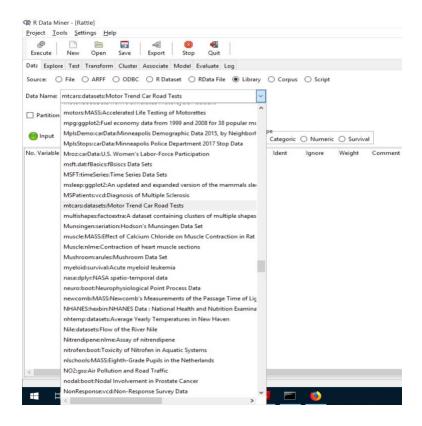
Step 1. Install Rattle

Install Rattle through RStudio by running the following commands:

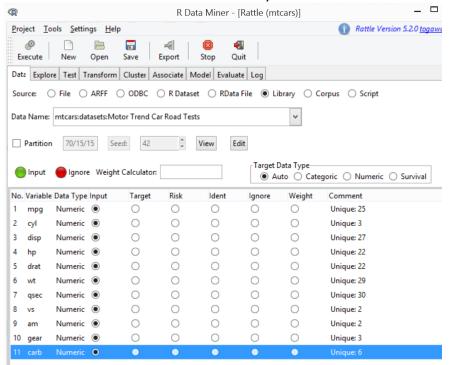


Step 2. Import the Motor Trend Car Road Test (mtcars) dataset from R library

Action 1. Select the data (mtcars:datasets:Motor Trend Car Road Test) from the dropdown menu called Data Name.



Action 2. Click "Execute". This will show you the variables in the dataset.

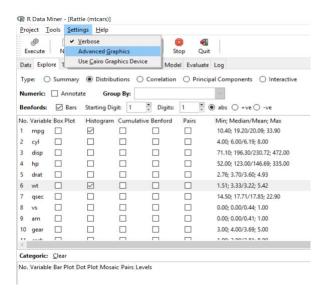


Step 3. Plot histograms and boxplots for mpg (miles per gallon) and wt (weight)

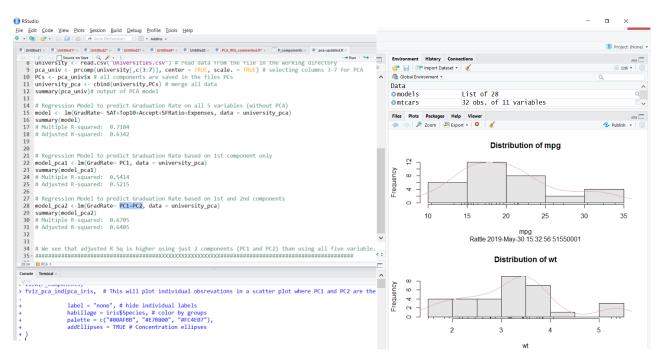
Action 1: Uncheck the Advanced Graphics option from Settings.

Histogram:

Action 2: Explore → Distributions → Histogram (Check the box for mpg and wt) → Execute



Output: Available in the plot/graph section in RStudio.

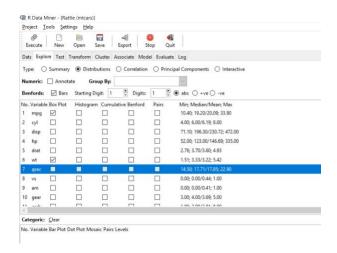


Interpretation (mpg): mpg(miles per gallon) doesn't follow normal distribution and it is somewhat right skewed.

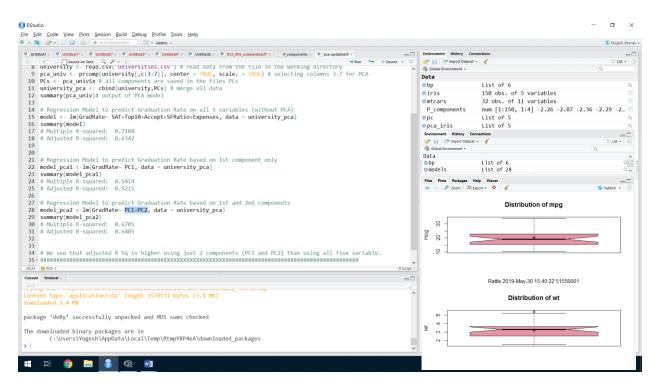
Interpretation (wt): There are more cars with the weight between 3 and 4 units than others. Mostly, a uniform distribution.

Box Plot:

Action 1: Explore → Distributions → Box Plot (Check the box for mpg and wt) → Execute



Output: Available in the plot/graph section in RStudio.



Interpretation(mpg): There are no outliers.

Interpretation(wt): There is an outlier in data, an observation with very high weight in comparison with others.

Step 4. Calculate summary statistics such as mean, median, 1st quartile, 3rd quartile, etc. for the following variables: mpg and wt

Action 1: Explore → Summary → Basics



Interpretation:

Mean and median are almost similar for mpg Mean and median are almost similar for wt

The range for mpg: 33.9 – 10.4

The range for wt: 5.4 - 1.6