LETTERKENNY INSTITUTE OF TECHNOLOGY

ASSIGNMENT COVER SHEET

Lecturer's Name: **Ruth Lennon**

Assessment Title: **University edition SAS LAB**

Work to be submitted to: **Ruth Lennon**

Date for submission of work: **3 December 2017**

Place and time for submitting work: **RM**

To be completed by the Student

Student's Name: **Prateek Parasher (L00143921)**

Class: **MSc Big Data Analytics**

Subject/Module: **Big Data Analytics**

Word Count (where applicable): **N/A**

I confirm that the work submitted has been produced solely through my own efforts.

Student's signature: **Prateek Parasher** Date: **3 / 12 /2017**

Notes

Penalties: The total marks available for an assessment is reduced by 15% for work submitted up to one week late. The total marks available are reduced by 30% for work up to two weeks late. Assessment work received more than two weeks late will receive a mark of zero. [Incidents of alleged plagiarism and cheating are dealt with in accordance with the Institute's Assessment Regulations.]

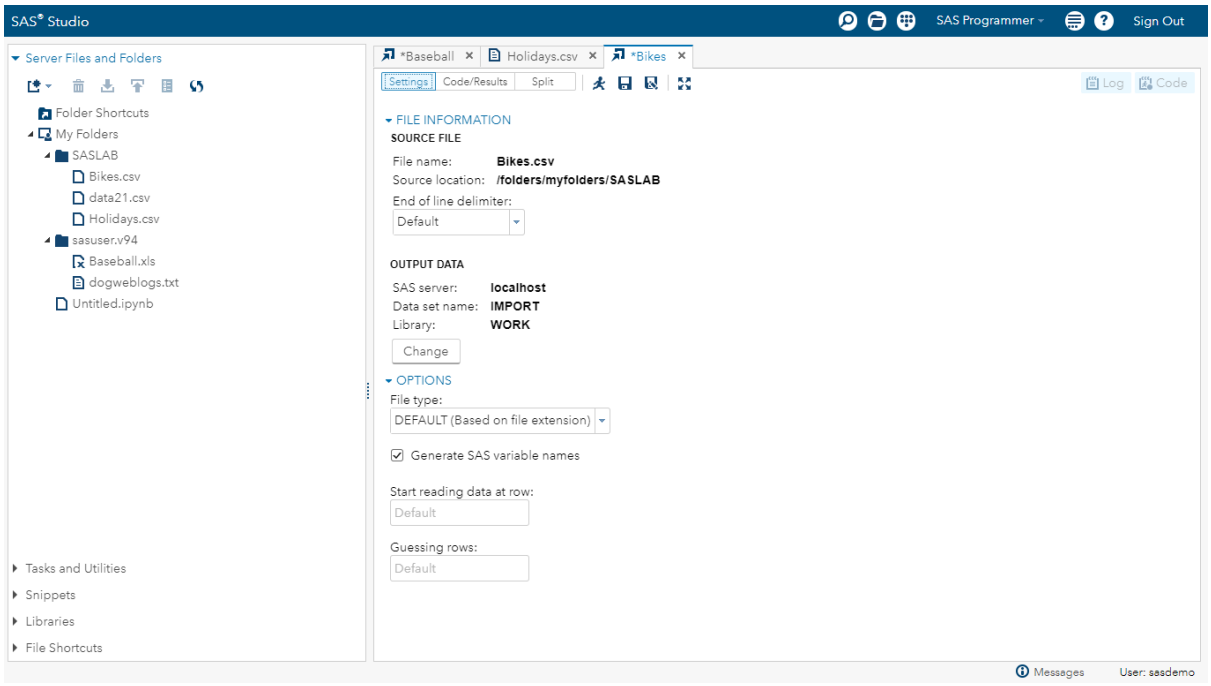
Plagiarism: Presenting the ideas etc. of someone else without proper acknowledgement (see section L1 paragraph 8).

Cheating: The use of unauthorised material in a test, exam etc., unauthorised access to test matter, unauthorised collusion, dishonest behaviour in respect of assessments, and deliberate plagiarism (see section L1 paragraph 8).

Continuous Assessment: For students repeating an examination, marks awarded for continuous assessment, shall normally be carried forward from the original examination to the repeat examination.

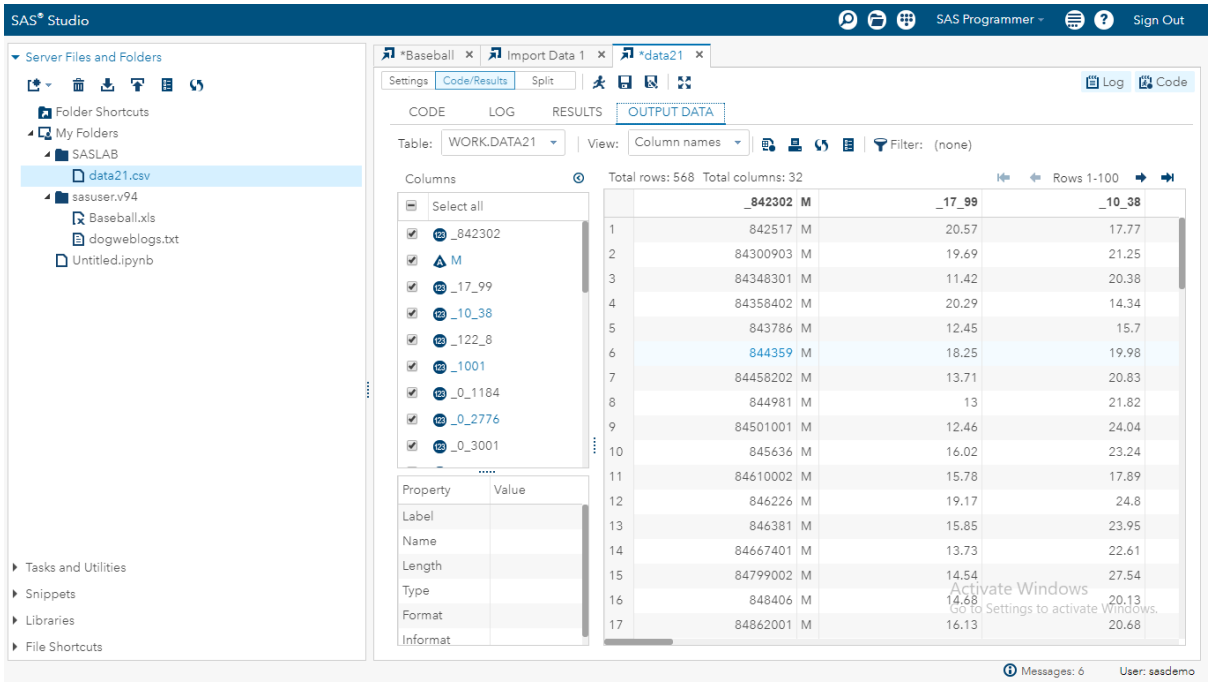
SAS University Edition Tutorials

1. SAS User Interfaces



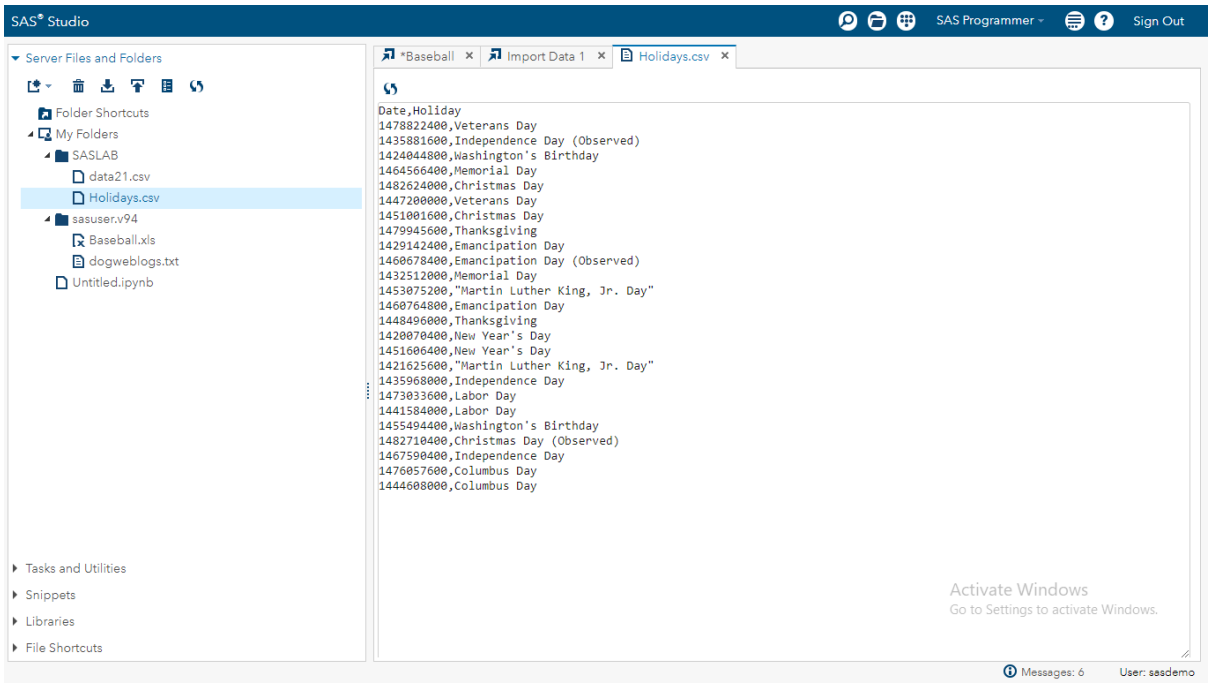
Conclusion:- In this lab I learned that SAS is good combination of business and technology using SAS studio I can use 3rd party application for data cleaning or data reporting I can make reports, graph and different visualization SAS studio is very easy to use GUI and having lot's of powerful tools inside SAS. in this tutorial I learned from where I can upload files from where I can run my files I can file information setting according to my requirement and I can see SAS code and SAS GUI both at same time ,

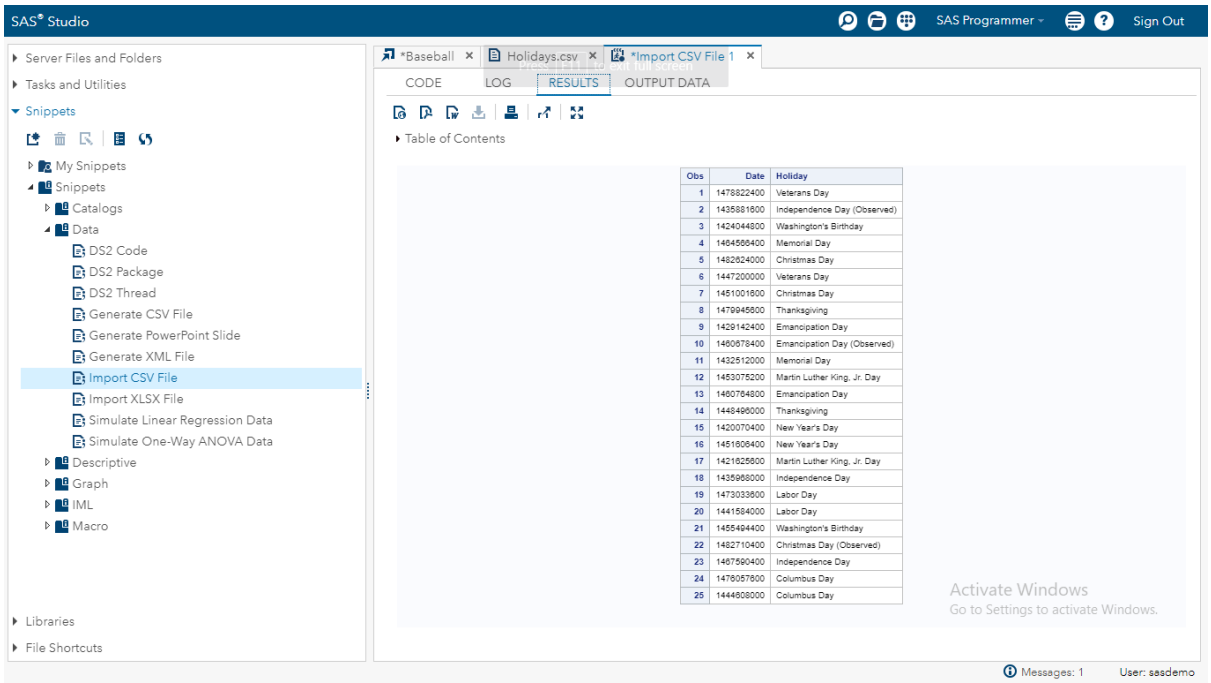
2. Import Data in SAS

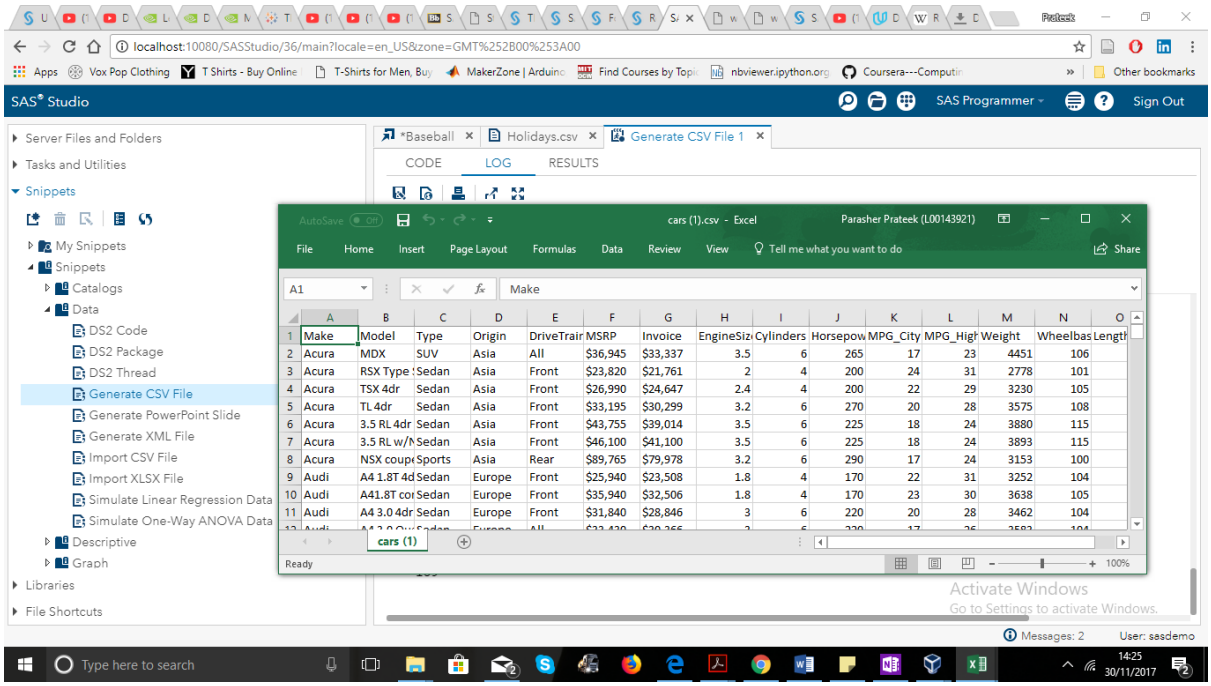


Conclusion:- In this lab I imported the my csv data file in sas studio we can import all data files like .csv . xls .text and after that we can check the setting as I want them default after run the code that SAS generated after that result tab shows file imported data it's easy to use via SAS GUI

3. CSV files in SAS

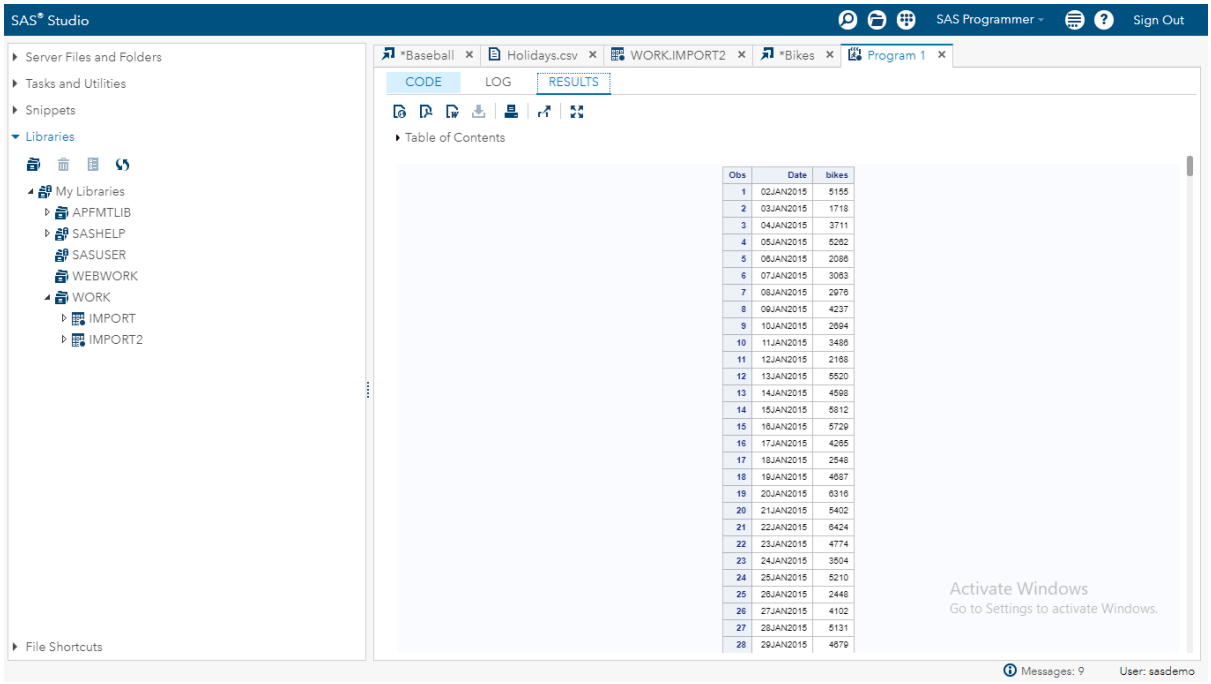






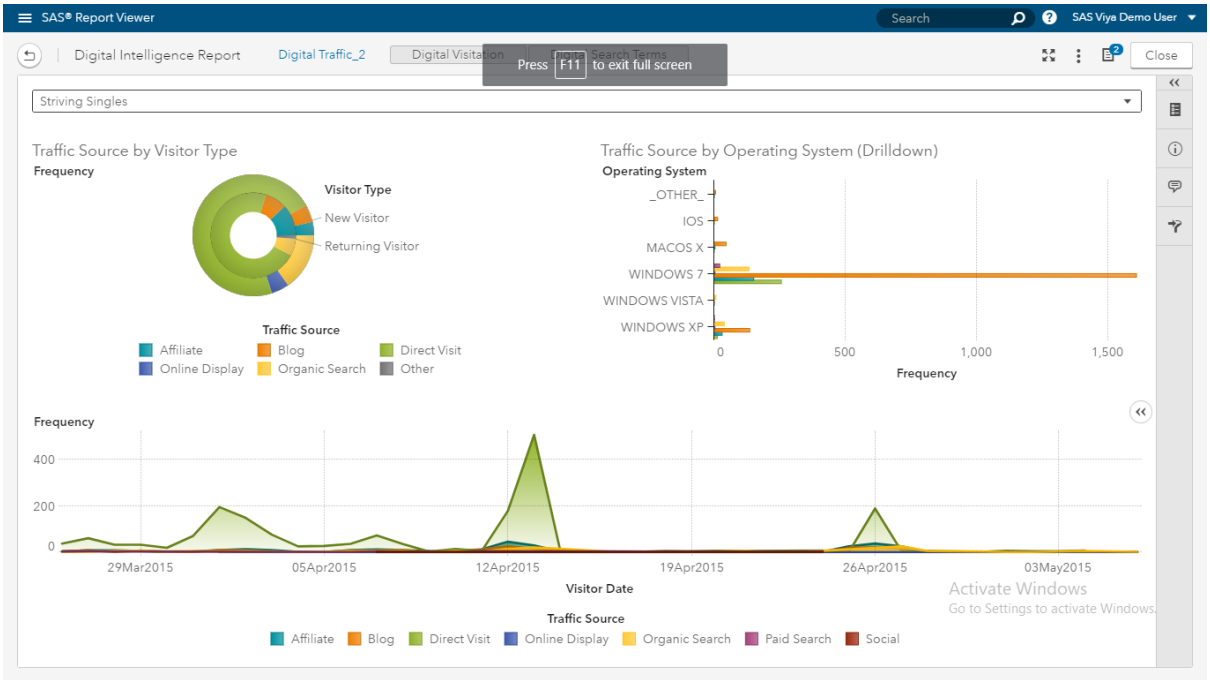
Conclusions:- In this lab I learned how to read csv file or how to generated csv files using SAS studio after importing the data and I used snippet for generating the csv files as you can see in my screen shots

4. Format data in SAS



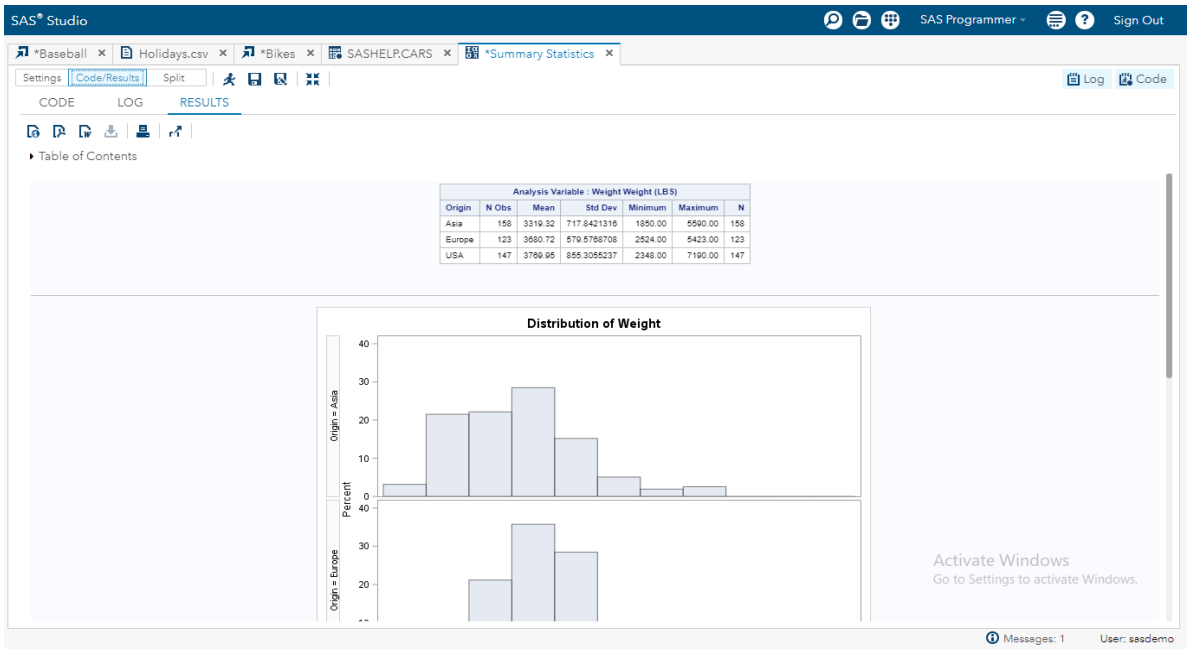
Conclusions:- in this lab I learned how to format the data which is easy to understand and that make sense like through this video I learned how to convert dates into DD/MM/YYYY format so that any one can understand the data easily and how to put $ sign front of price value apart from that we can do many other things and make the data readable and easily understandable

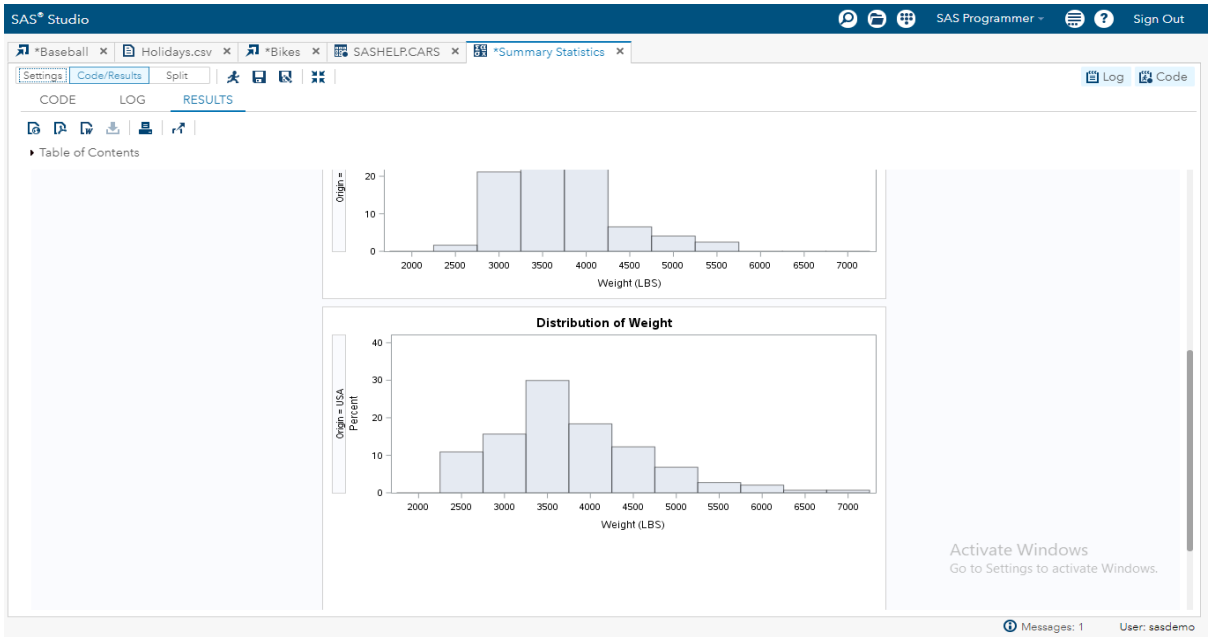
5. Creating Graphs in SAS



Conclusion:- in this lab I learned the visualization of the different type of graph for each data we need to know how to use appropriate graph or valuations in this lab visual analytics helping to understanding the all the visual analytics above pic I took the data of digital traffic I used line chart pie chart and bar graph to visualize my data with different colours so that it is more under stable in first look.

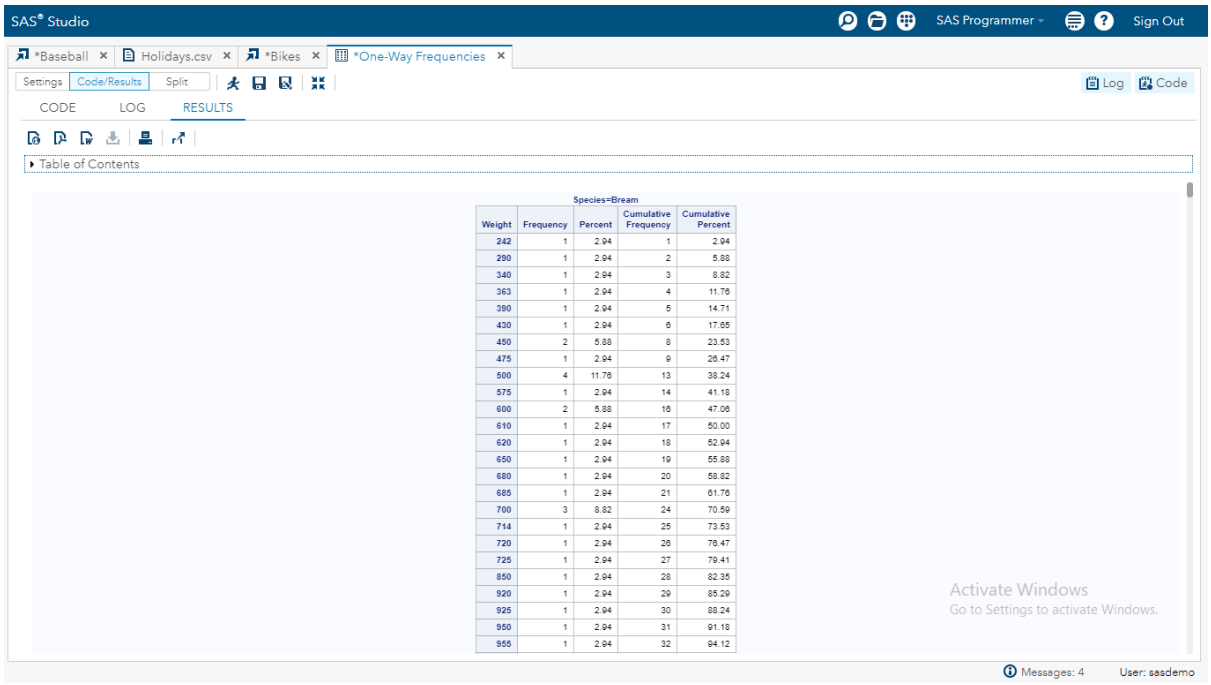
6. Summary Statistics

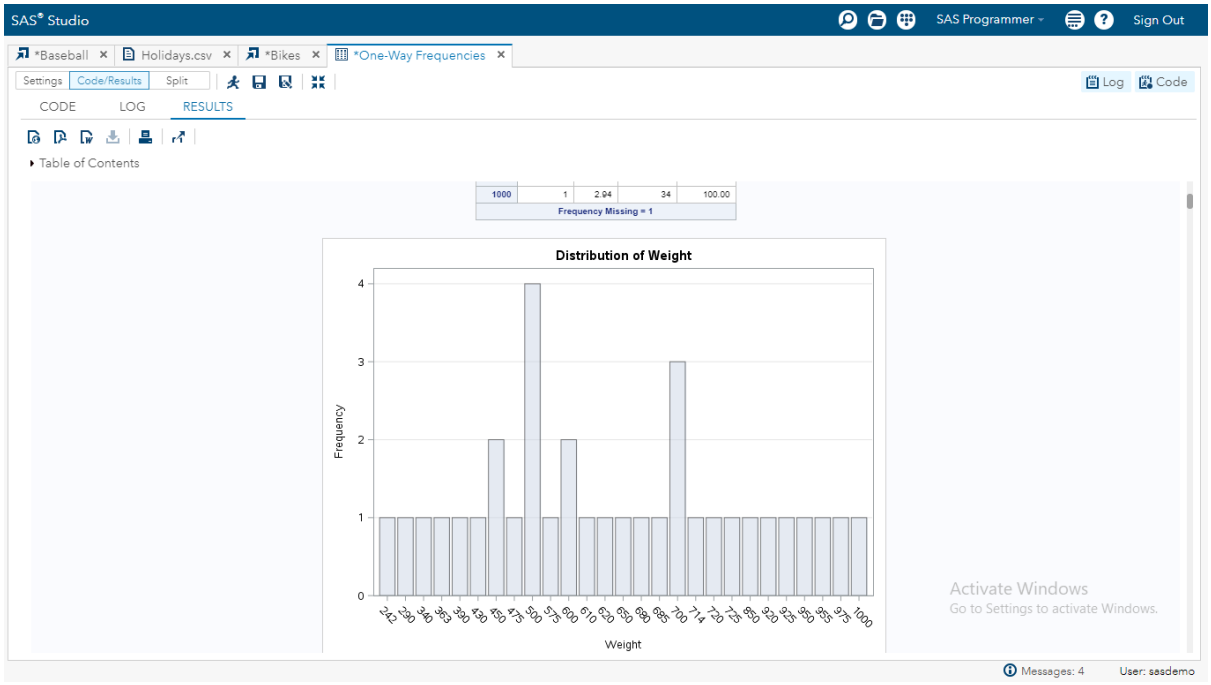




Conclusion:- In this lab I learned use of descripted statistics using SAS studio lab I used car data and calculated the mean , median , mode using summary statistics and generated the histogram we can see the relation in graph Sas studio is quickly do this complex maths problem and it's GUI fully fixable.

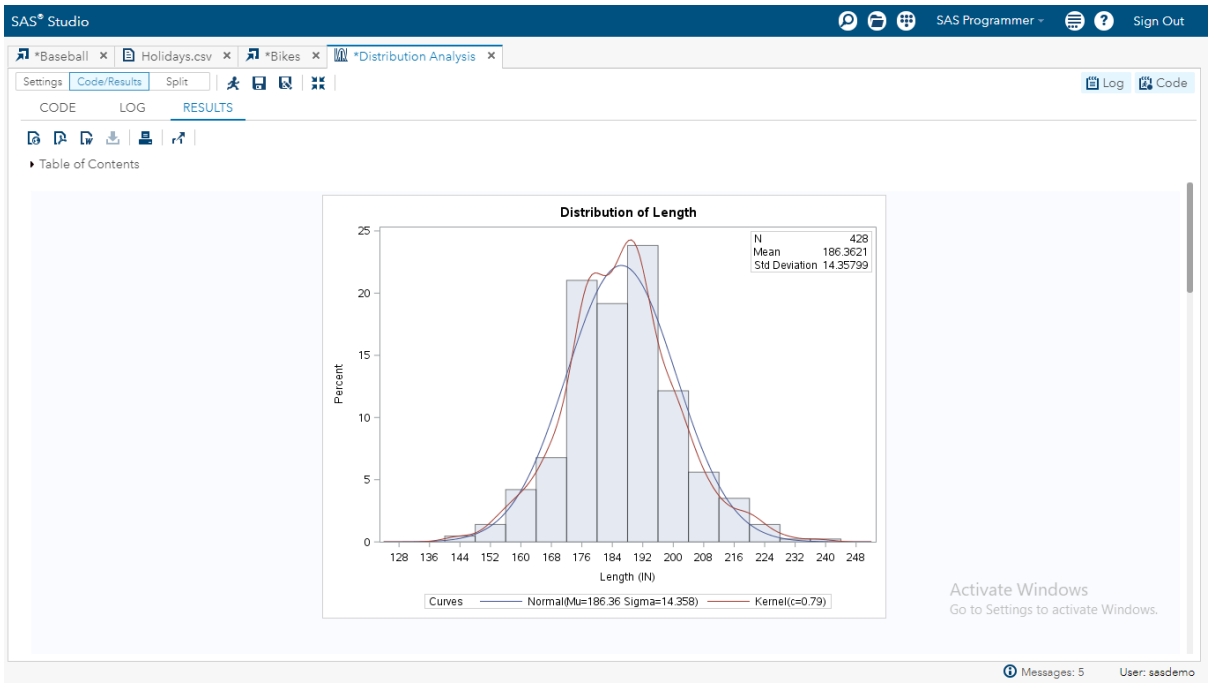
7. One Way Frequencies

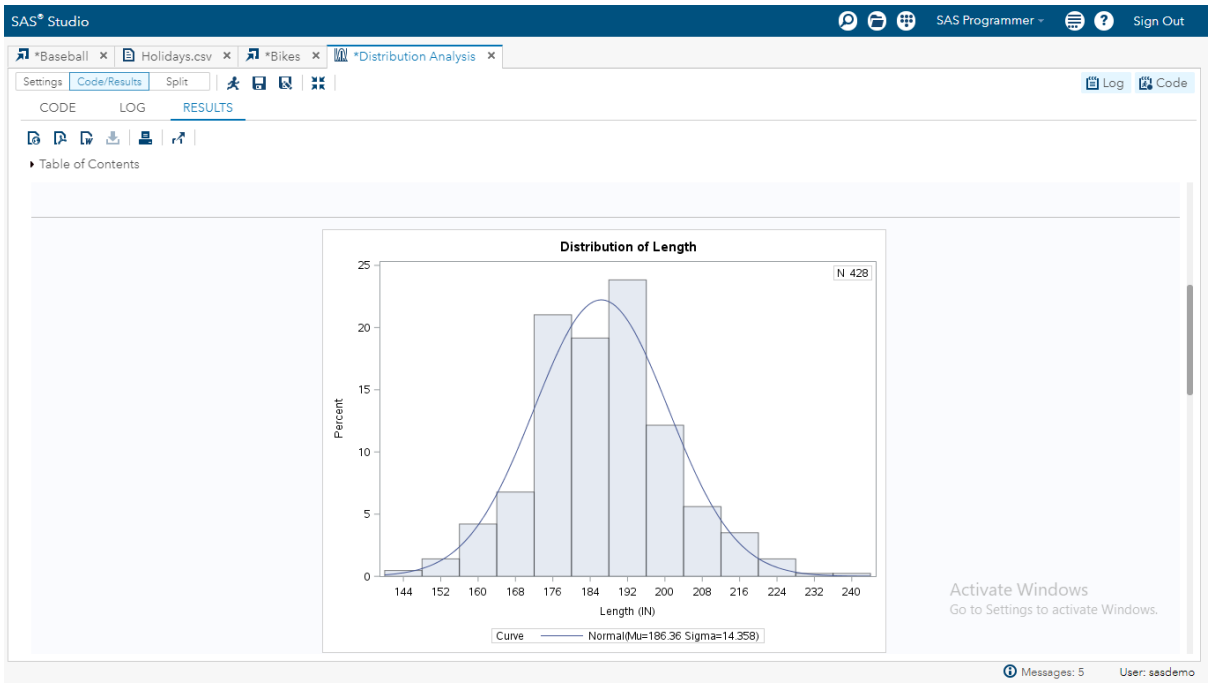


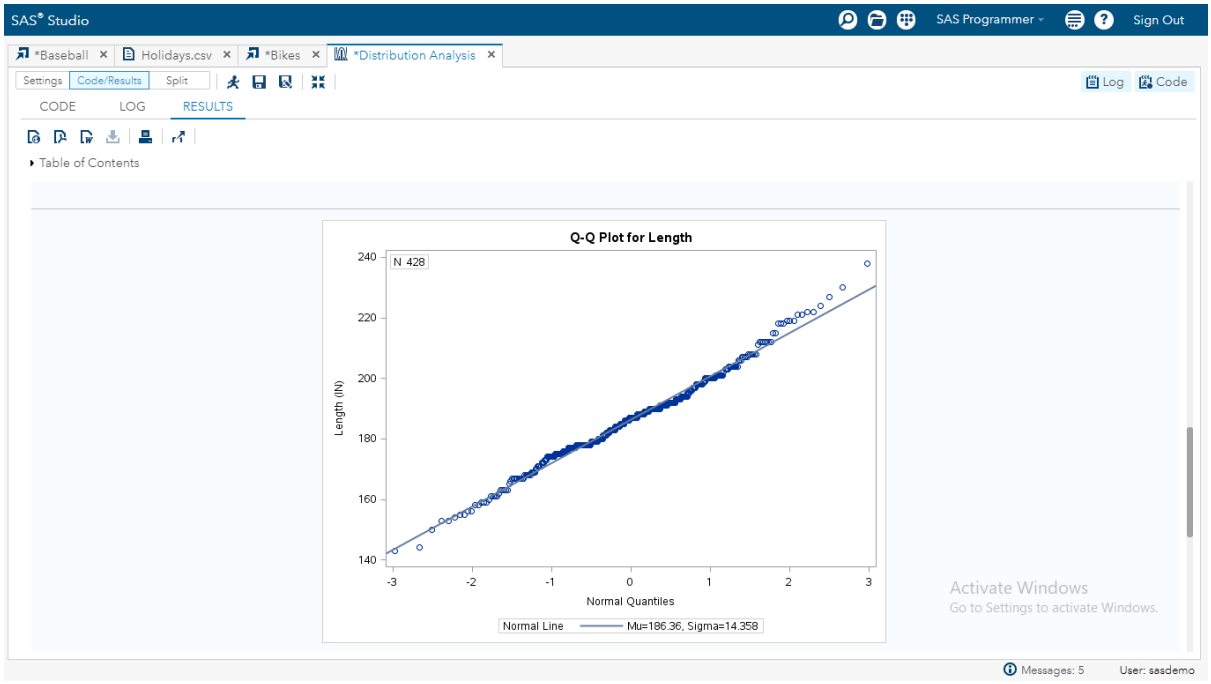


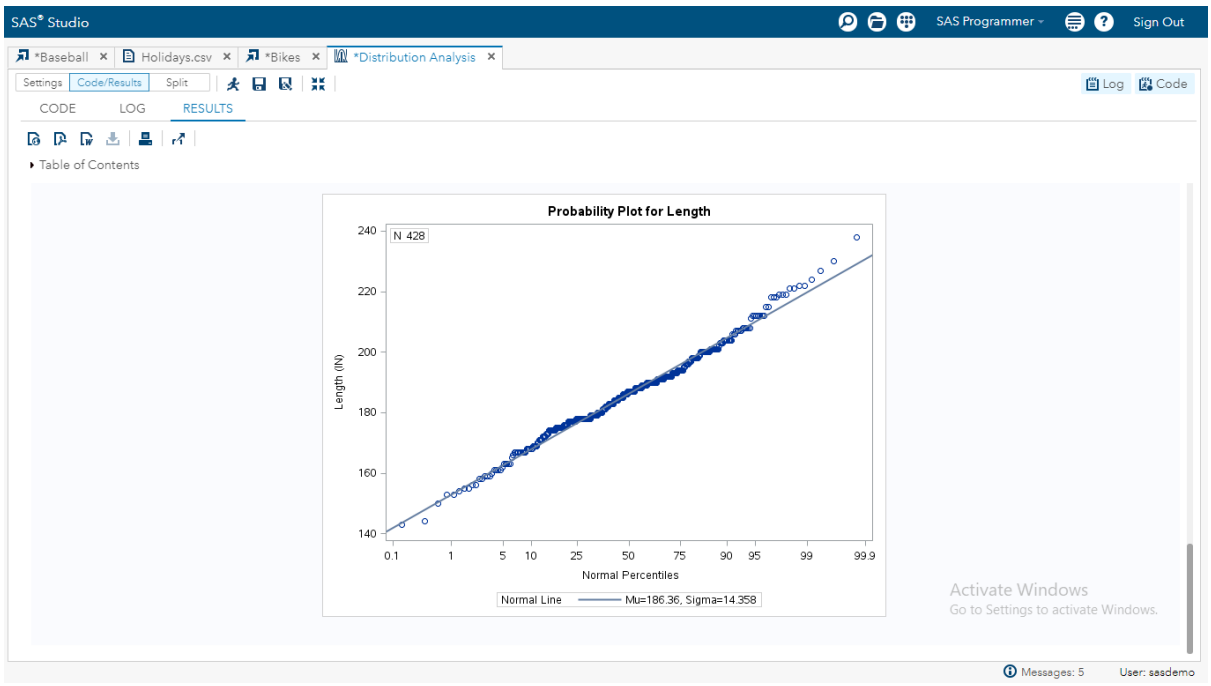
Conclusion:- In this Lab I learned how to generate one way frequency task using this we can perform many tasks , in this case we import data and get the different frequency relation with different weight size we can also see the percentage and cumulative frequency in our output file.

8. Distribution Analysis









Conclusion:- In this video I learned distribution analysis I used cars data in this task and compared statistical and plot graph distribution , in this lab I compared cars length distribution data after all this analysis I personally find that SAS is really good and very power full business tool with all the required features