**Tutorial Proposal**

**Data Wrangler:**

I am going to use uta spring courses data which are not in the format that they should be. I am going to transform those data into table so that proper information could be extracted out.

For e.g.:

* If a student wants to know all the morning/afternoon or evening classes.
* If a student wants to know what different classes are there on different days?
* Class that a specific professor teaches.

All of these above questions could be answered once the data are transformed.

**Open Refine:**

I am going to use same data set as above to discuss which tool is more comfortable for doing above operations.

If a person is bored and wants to know what music he wants to listen or what book he wants to read. He of course can go to google and search it but there are lot of options and it i difficult to choose from them. Instead if he can get to know what most of his friends like to hear or read then he would be pleased with those suggestions.

For the above scenario, I am going to use my Facebook data. I am going to fetch friend list from Facebook api and import to google refine and then would do transform and matching of data to get the above answers.

Crimes for city of Chicago: <http://catalog.data.gov/dataset/crimes-one-year-prior-to-present-e171f>. With this data I would explore and can get the following answers:

* Which were the primary reason for the crimes and what was the count?
* Which blocks of the city are the most dangerous one?
* Which are the common locations that the crimes occur most?

**Pandas:**

I am going to compare 2 data sets – uta spring courses and crimes for city of Chicago against other tools.

I will present the graph created through panda which will give the visualization for total crimes and no of crimes occurring in different location.

I will describe some statistics (total, mean) based on primary reason for crime and the location it happens.

Compare between reason for crime and how many were arrested or how many were domestic using different charts.