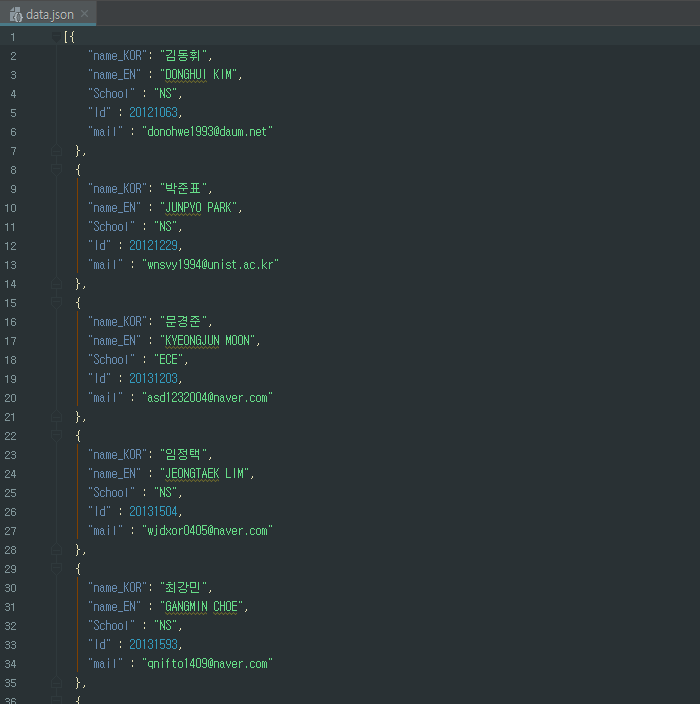
MTH27101: Methods of Applied Mathematics

Homework 1

20121229 JunPyo Park

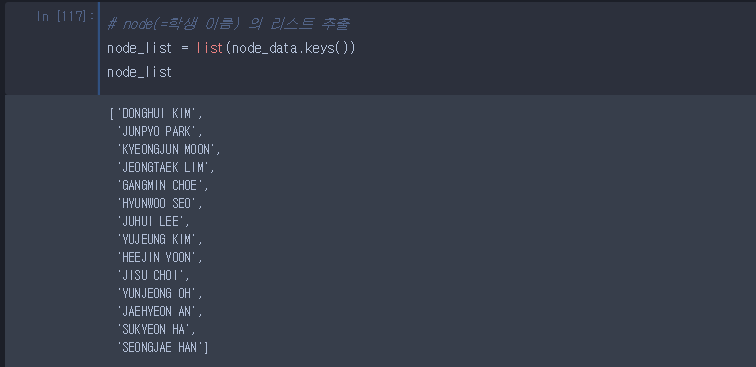
1. data.json
   1. I entered the data for each student like below.



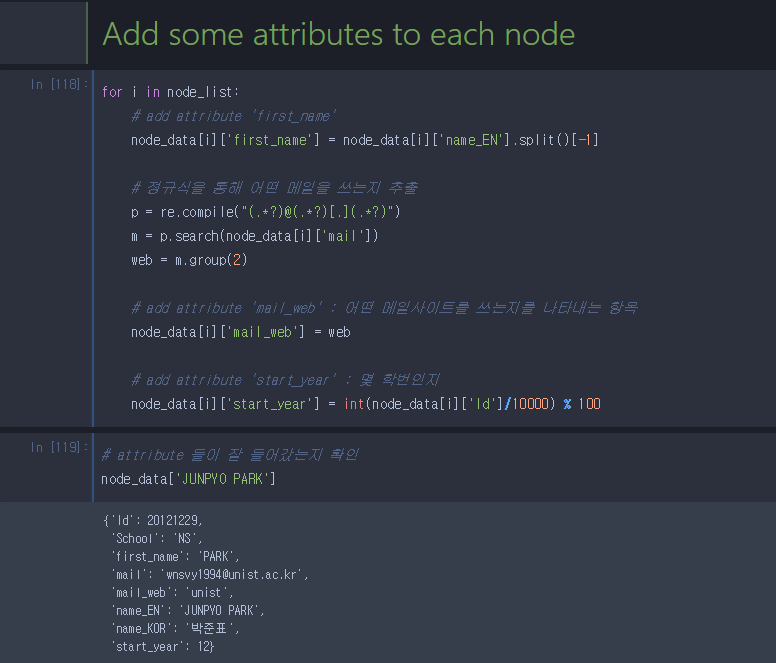
1. DB\_Processing.ipynb
   1. Load database



* 1. Making node\_list : I select student’s English name as a node



* 1. Add some attributes to each node.

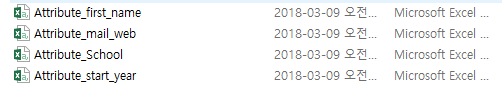


* + 1. ‘first\_name’ : English first name
    2. ‘mail\_web’ : 사용하는 메일 사이트(naver, daum, unist…)
    3. ‘start\_year’ : 입학년도(12,13,14…)
  1. Calculate adjacency matrix and save them as a CSV files.

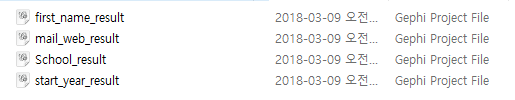


I select 4 features : ‘School’, ‘first\_name’, ‘mail\_web’, ‘start\_year’

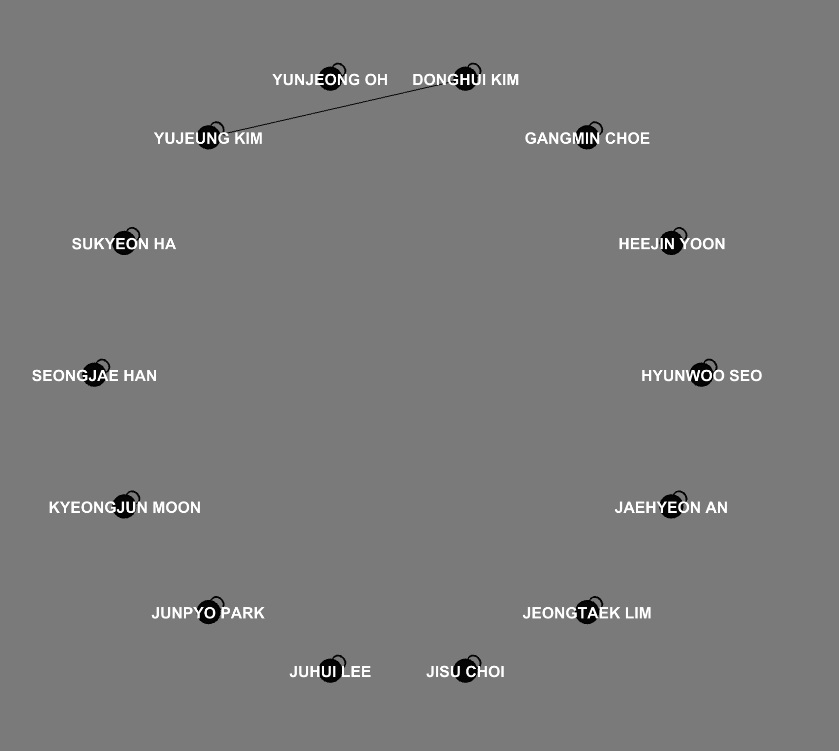
* 1. After running this code, we can find csv files for each attribute.



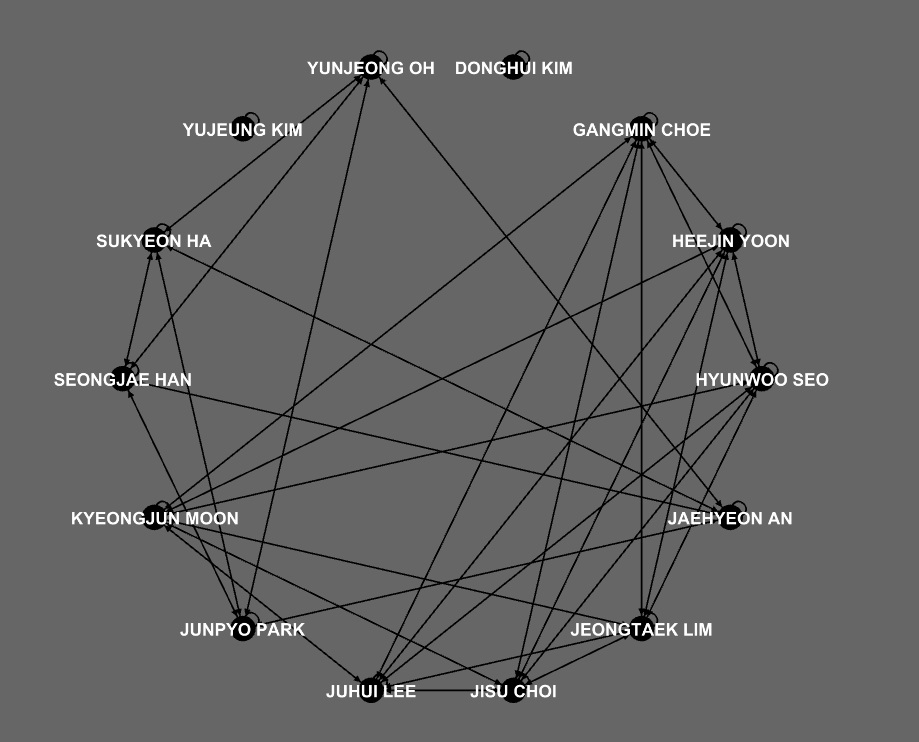
1. Using Gephi tools to make graph.



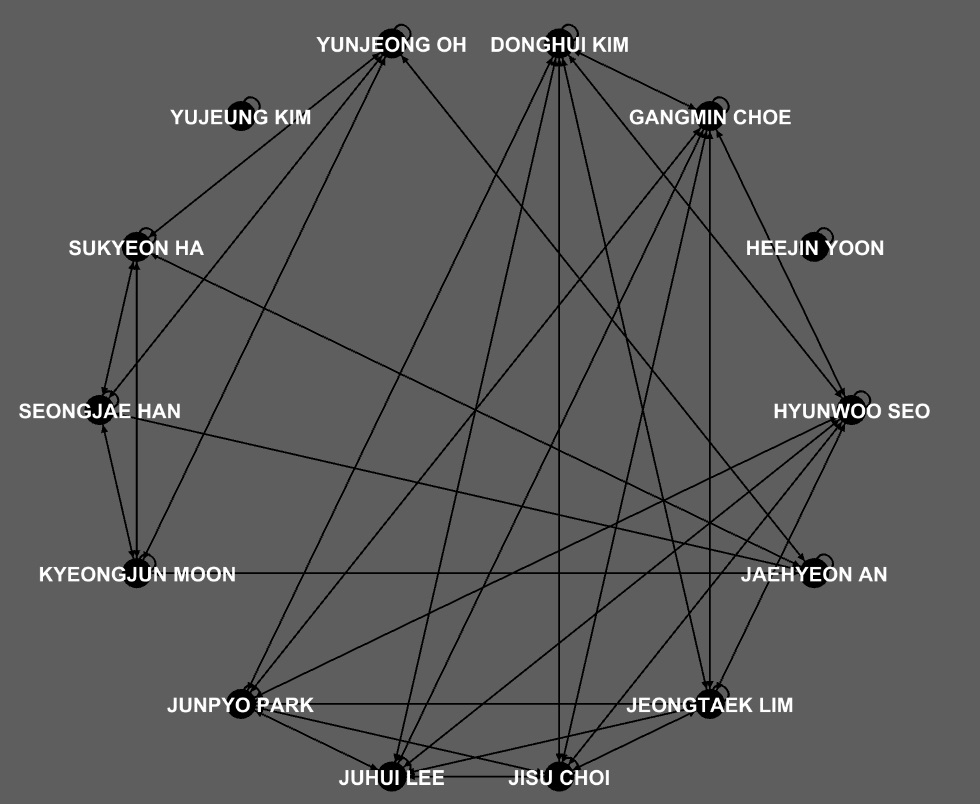
1. These are the results.
   1. Attribute : ‘first\_name’



* 1. Attribute : ‘mail\_web’



* 1. Attribute : ‘School’



* 1. Attribute : ‘start\_year’

