correlation

August 14, 2022

0.1 Modify Data
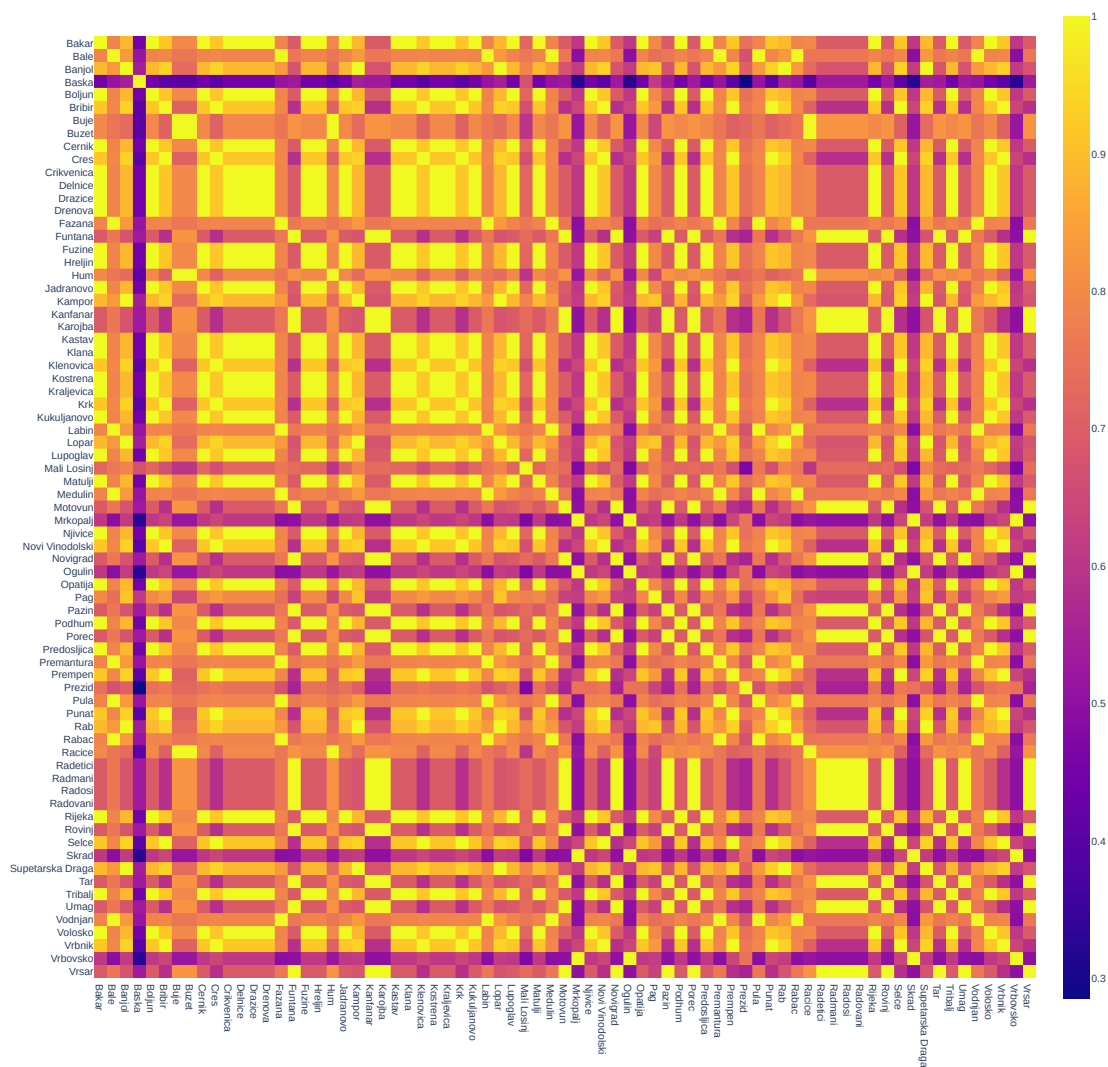
0.1.1 Create Merged .csv File with Data from All Cities
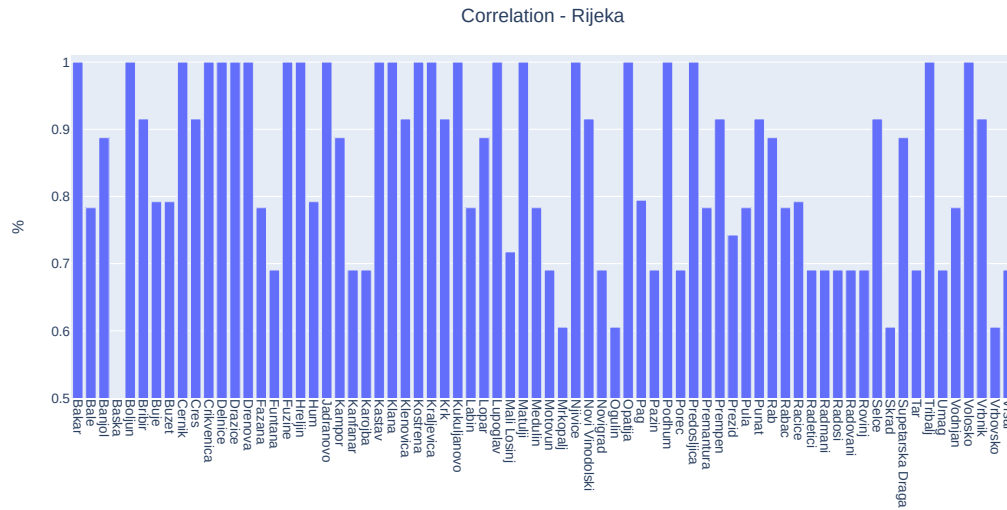
```
Data has already been processed
```

1 Correlation

```
Creating folder correlation_plots/columns-windspeedKmph
Correlation file does not exist.. Creating one…
```
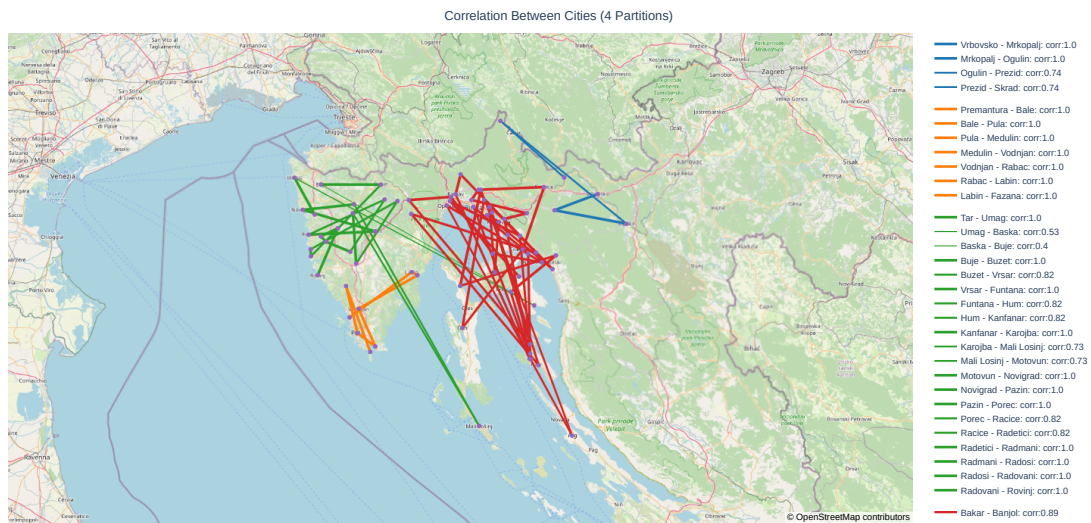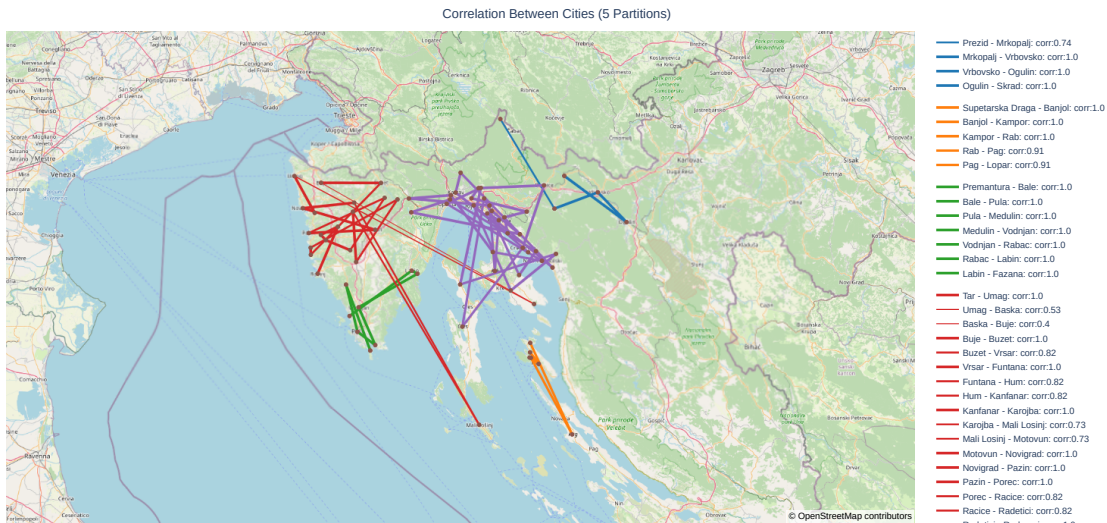
Correlation Matrix Analysis

Correlation - Rijeka
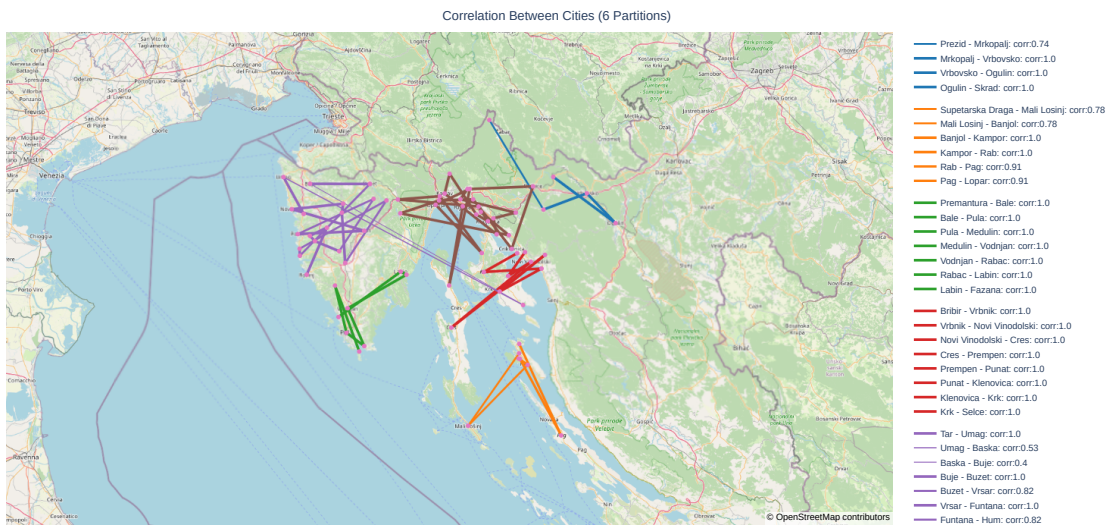
1.1 Correlation Map

Min comumunities: 4 -- Resoluton value: 1.0389999999999957

Correlation Between Cities (4 Partitions)

Vrbovsko - Mrkopalj: corr:1.0
Mrkopalj - Ogulin: corr:1.0
Ogulin - Prezid: corr:0.74
Prezid - Skrad: corr:0.74

Premantura - Bale: corr:1.0
Bale - Pula: corr:1.0
Pula - Medulin: corr:1.0
Medulin - Vodnjan: corr:1.0
Vodnjan - Rabac: corr:1.0
Rabac - Labin: corr:1.0
Labin - Fazana: corr:1.0

Tar - Umag: corr:1.0
Umag - Baska: corr:0.53
Baska - Buje: corr:0.4
Buje - Buzet: corr:1.0
Buzet - Vrsar: corr:0.82
Vrsar - Funtana: corr:1.0
Funtana - Hum: corr:0.82
Hum - Kanfanar: corr:0.82
Kanfanar - Karojba: corr:1.0
Karojba - Mali Losinj: corr:0.73
Mali Losinj - Motovun: corr:0.73
Motovun - Novigrad: corr:1.0
Novigrad - Pazin: corr:1.0
Pazin - Porec: corr:1.0
Porec - Racice: corr:0.82
Racice - Radetici: corr:0.82
Radetici - Radmani: corr:1.0
Radmani - Radosi: corr:1.0
Radosi - Radovani: corr:1.0
Radovani - Rovinj: corr:1.0

Bakar - Banjol: corr:0.89

Min comumunities: 5 -- Resoluton value: 1.0509999999999944

Correlation Between Cities (5 Partitions)

Min comumunities: 6 -- Resoluton value: 1.0959999999999894

Correlation Between Cities (6 Partitions)

2 Export to HTML

```
<IPython.core.display.Javascript object>
```

```
[NbConvertApp] Converting notebook correlation.ipynb to HTML
[NbConvertApp] Writing 4524042 bytes to output/columns-
windspeedKmph_correlation.html
[NbConvertApp] Converting notebook correlation.ipynb to pdf
/home/HDD/00-Development/016-Diplomski/venv/lib/python3.9/site-
packages/nbconvert/filters/datatypefilter.py:41: UserWarning: Your element with
```

```
mimetype(s) dict_keys(['text/html']) is not able to be represented.
  warn(
[NbConvertApp] Support files will be in columns-windspeedKmph_correlation_files/
[NbConvertApp] Making directory ./columns-windspeedKmph_correlation_files
[NbConvertApp] Making directory ./columns-windspeedKmph_correlation_files
[NbConvertApp] Making directory ./columns-windspeedKmph_correlation_files
[NbConvertApp] Making directory ./columns-windspeedKmph_correlation_files
[NbConvertApp] Making directory ./columns-windspeedKmph_correlation_files
[NbConvertApp] Writing 70026 bytes to notebook.tex
[NbConvertApp] Building PDF
[NbConvertApp] Running xelatex 3 times: ['xelatex', 'notebook.tex', '-quiet']
[NbConvertApp] Running bibtex 1 time: ['bibtex', 'notebook']
[NbConvertApp] WARNING | bibtex had problems, most likely because there were no
citations
[NbConvertApp] PDF successfully created
[NbConvertApp] Writing 3066994 bytes to output/columns-
windspeedKmph_correlation.pdf
```