correlation

August 14, 2022

0.1 Modify Data
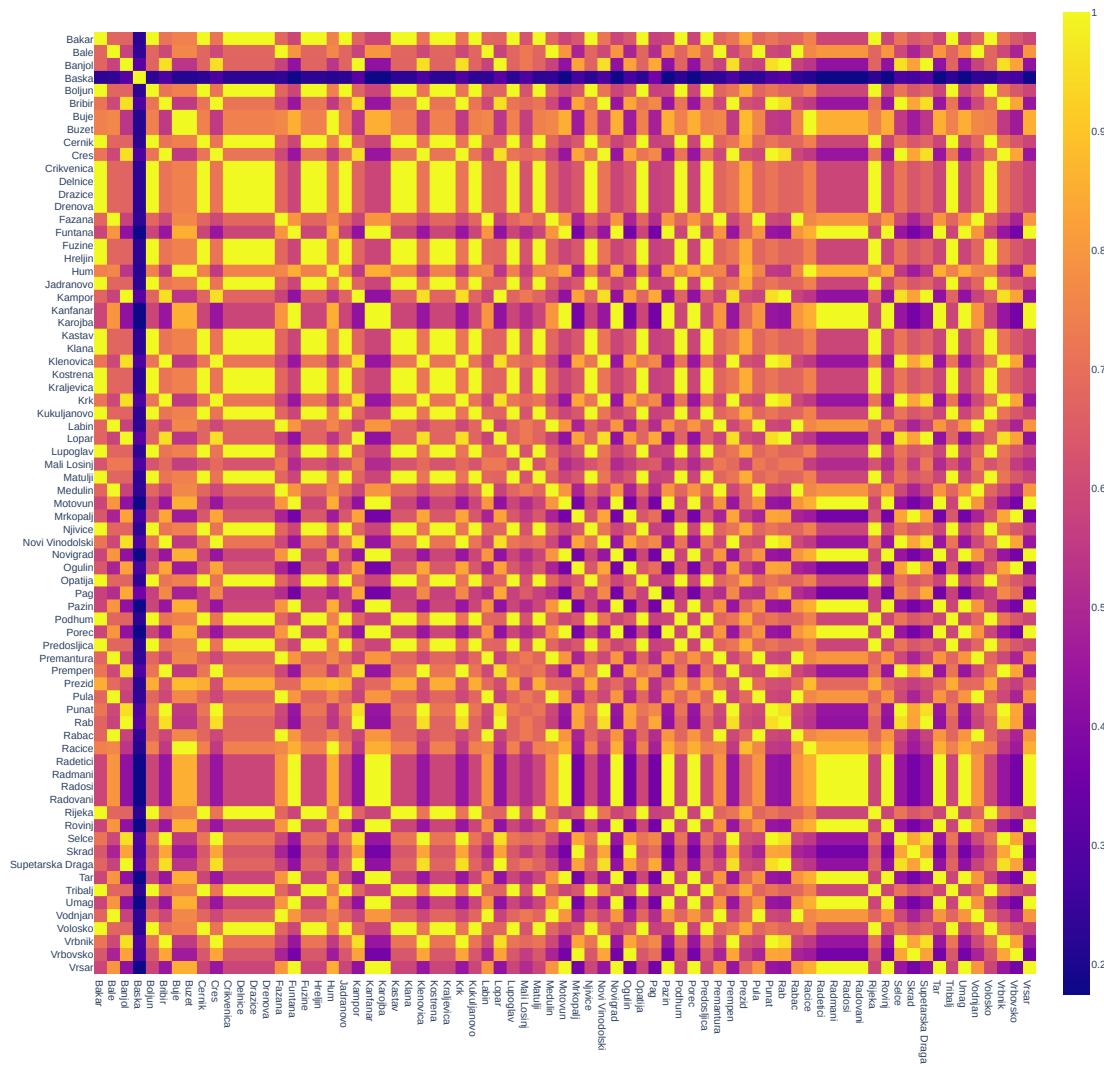
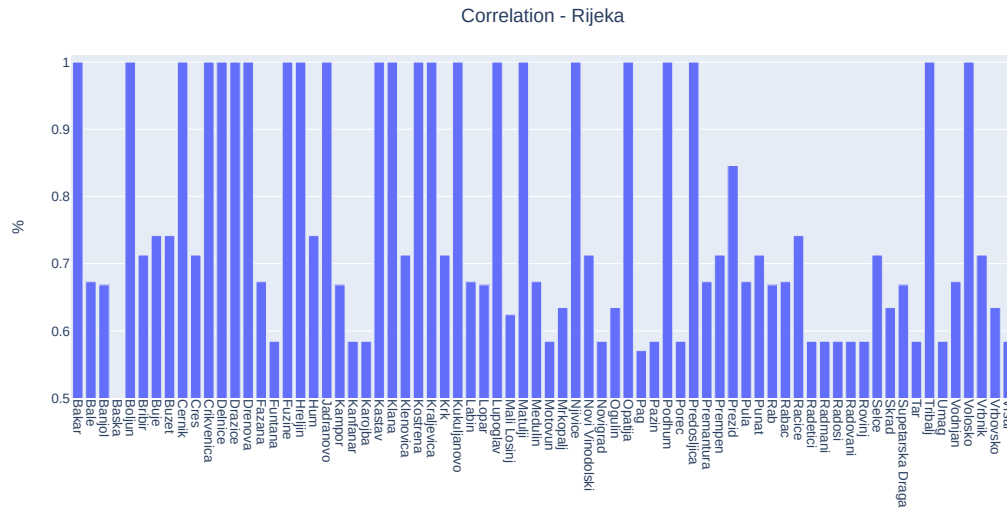### 0.1.1 Create Merged .csv File with Data from All Cities

```
Data has already been processed
```

1 Correlation

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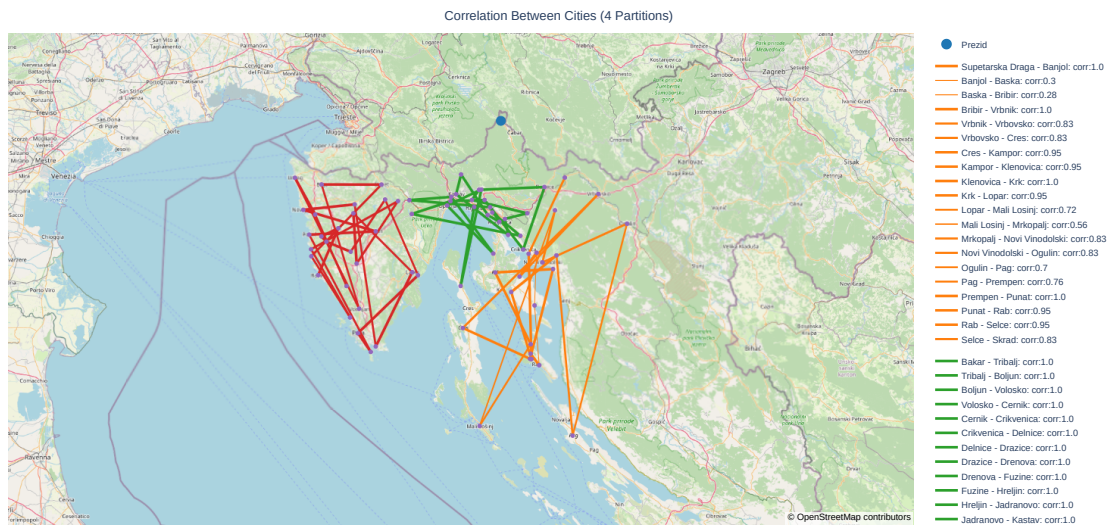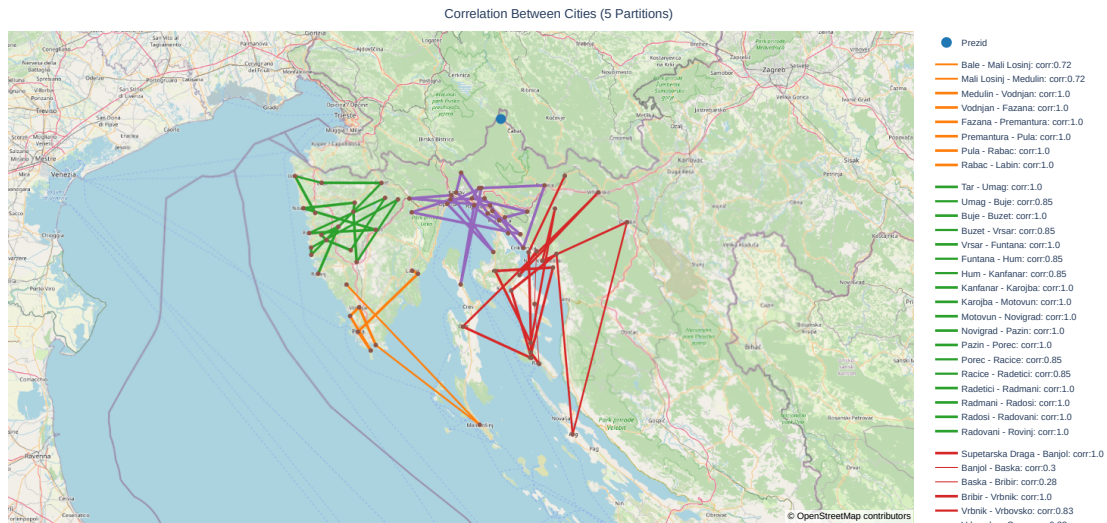
Correlation Matrix Analysis

Correlation - Rijeka

1.1 Correlation Map

Min comumunities: 4 -- Resoluton value: 1.0879999999999903
There is a single element partition: Prezid

Correlation Between Cities (4 Partitions)

- Prezid

- Supetarska Draga - Banjol: corr:1.0
- Banjol - Baska: corr:0.3
- Baska - Bribir: corr:0.28
- Bribir - Vrbnik: corr:1.0
- Vrbnik - Vrbovsko: corr:0.83
- Vrbovsko - Cres: corr:0.83
- Cres - Kampor: corr:0.95
- Kampor - Klenovica: corr:0.95
- Klenovica - Krk: corr:1.0
- Krk - Lopar: corr:0.95
- Lopar - Mali Losinj: corr:0.72
- Mali Losinj - Mrkopalj: corr:0.56
- Mrkopalj - Novi Vinodolski: corr:0.83
- Novi Vinodolski - Ogulin: corr:0.83
- Ogulin - Pag: corr:0.7
- Pag - Prempen: corr:0.76
- Prempen - Punat: corr:1.0
- Punat - Rab: corr:0.95
- Rab - Selce: corr:0.95
- Selce - Skrad: corr:0.83

- Bakar - Tribalj: corr:1.0
- Tribalj - Boljun: corr:1.0
- Boljun - Volosko: corr:1.0
- Volosko - Cernik: corr:1.0
- Cernik - Crikvenica: corr:1.0
- Crikvenica - Delnice: corr:1.0
- Delnice - Drazice: corr:1.0
- Drazice - Drenova: corr:1.0
- Drenova - Fuzine: corr:1.0
- Fuzine - Hreljin: corr:1.0
- Hreljin - Jadranovo: corr:1.0
- Jadranovo - Kastav: corr:1.0

Min comumunities: 5 -- Resoluton value: 1.162999999999982
There is a single element partition: Prezid

3

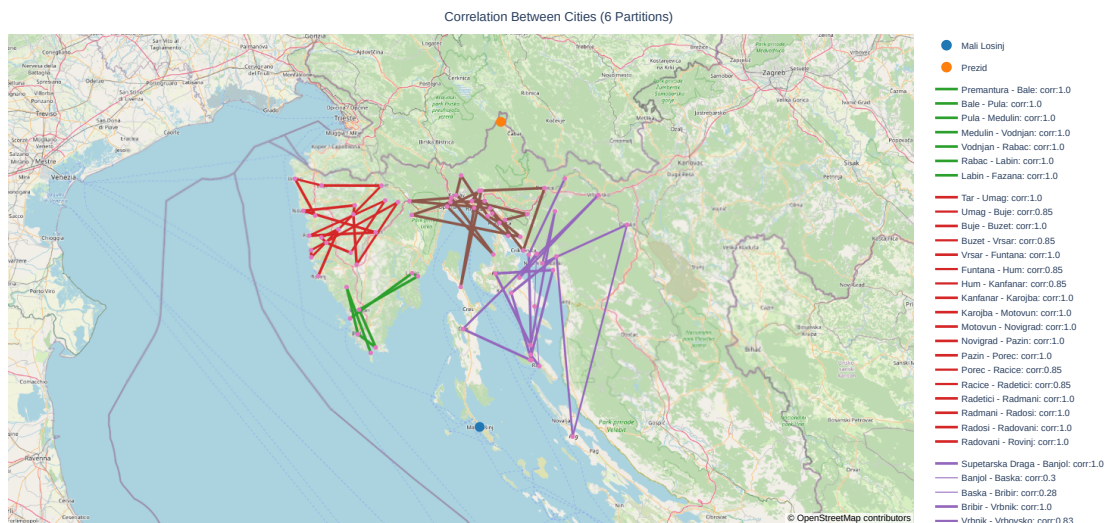Correlation Between Cities (5 Partitions)

```
Min comumunities: 6 -- Resoluton value: 1.1829999999999798
There is a single element partition: Mali Losinj
There is a single element partition: Prezid
```


Correlation Between Cities (6 Partitions)

2 Export to HTML

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

[NbConvertApp] Converting notebook correlation.ipynb to HTML
[NbConvertApp] Writing 4527576 bytes to output/columns-precipMM_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-precipMM_correlation_files/
[NbConvertApp] Making directory ./columns-precipMM_correlation_files
[NbConvertApp] Making directory ./columns-precipMM_correlation_files
[NbConvertApp] Making directory ./columns-precipMM_correlation_files
[NbConvertApp] Making directory ./columns-precipMM_correlation_files
[NbConvertApp] Making directory ./columns-precipMM_correlation_files
[NbConvertApp] Writing 70142 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 3094628 bytes to output/columns-precipMM_correlation.pdf
[NbConvertApp] Converting notebook correlation.ipynb to HTML
[NbConvertApp] Writing 4455963 bytes to output/columns-
precipMM_correlation_no_code.html
```