rural_population_perc

May 1, 2022

Program to load population percentage data, clean up and export as cleaned up CSV file.

[2]:
```
import pandas as pd

df_pop_perc = pd.read_csv ('../Data/Rural_pop_Perc_worldBank/
 ↪pop_growth_perc_data.csv')

df_pop_perc.head()
```

[2]:
```
                              Series Name     Series Code  \
0  Rural population (% of total population)  SP.RUR.TOTL.ZS
1  Rural population (% of total population)  SP.RUR.TOTL.ZS
2  Rural population (% of total population)  SP.RUR.TOTL.ZS
3  Rural population (% of total population)  SP.RUR.TOTL.ZS
4  Rural population (% of total population)  SP.RUR.TOTL.ZS

                 Country Name Country Code     1960 [YR1960]  \
0                 Afghanistan          AFG            91.599
1  Africa Eastern and Southern          AFE  85.2953119729611
2   Africa Western and Central          AFW  85.3296712092282
3                      Albania          ALB            69.295
4                      Algeria          DZA             69.49

      1961 [YR1961]     1962 [YR1962]     1963 [YR1963]     1964 [YR1964]  \
0            91.316            91.024            90.724            90.414
1  85.0555405636455  84.8143917635466  84.5555861095586  84.2809240839644
2  84.9464227530417   84.550718370091  84.1359792709003  83.7050160428521
3            69.057            68.985            68.914            68.842
4            68.203            66.786            65.338            63.859

      1965 [YR1965]  ...     2012 [YR2012]     2013 [YR2013]  \
0            90.096  ...             75.84            75.627
1  83.9980078257727  ...  66.9283128426341  66.4924520296653
2  83.2586392998873  ...  57.0989645749267  56.4692956838611
3             68.77  ...             45.67            44.613
4            62.357  ...            31.085            30.424

      2014 [YR2014]     2015 [YR2015]     2016 [YR2016]     2017 [YR2017]  \
```

```
0            75.413            75.197             74.98             74.75
1  66.0475756414397  65.5949160938201  65.1348990608866   64.667627399344
2  55.8428690387667  55.2186269982415  54.5981908883918  53.9806664573227
3            43.577            42.566            41.579            40.617
4            29.779            29.152            28.541            27.948

      2018 [YR2018]     2019 [YR2019]     2020 [YR2020] 2021 [YR2021]
0            74.505            74.246            73.974            ..
1  64.1922298807226  63.7086779320966  63.2166938509081            ..
2  53.3668617220008  52.7571471216999  52.1513745647494            ..
3            39.681            38.771            37.888            ..
4            27.371            26.811            26.267            ..

[5 rows x 66 columns]
```

[3]:
```
df_pop_perc_transpose = df_pop_perc.melt(id_vars=["Series Name", "Series Code",␣
↪"Country Name","Country Code"],
        var_name="Year",
        value_name="Rur_perc")
```

[ ]:
```
df_pop_perc_transpose['Year'] = df_pop_perc_transpose['Year'].str[:4]

#Separate % of total and % growth into 2 DFs
df_rural_pop = df_pop_perc_transpose[df_pop_perc_transpose["Series Name"] ==␣
↪'Rural population (% of total population)']
df_rural_pop_perc = df_pop_perc_transpose[df_pop_perc_transpose["Series Name"]␣
↪== 'Rural population growth (annual %)']
```