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Table
Name: country, Length: 1784, dtype: object In [12]: # method 2 # not recommended df.country Out[12]: 8
1699 Zimbabwe 1700 Zimbabwe 1701 Zimbabwe 1702 Zimbabwe 1702 Zimbabwe Name: country, Length: 1704, dtype: object In [13]: # country Name # df.country Name # df.1 # funtions/methods overlapping # cannot read mutiple columns at once In [14]: type(df["country"]) Out[14]: pandas.core.series.Series In []:
funtions/methods overlapping # cannot read mutiple columns at once In [14]: type(df["country"]) Out[14]: pandas.core.series.Series In []:
To [45].
In [15]: df.head() Out[15]: country year population continent life_exp gdp_cap 0 Afghanistan 1952 8425333 Asia 28.801 779.445314 1 Afghanistan 1957 9240934 Asia 30.332 820.853030 2 Afghanistan 1962 10267083 Asia 31.997 853.100710
3 Afghanistan 1967 11537966 Asia 34.020 836.197138 4 Afghanistan 1972 13079460 Asia 36.088 739.981106 In [16]: country year population continent life_exp gdp_cap 0 Afghanistan 1952 8425333 Asia 28.801 779.445314 1 Afghanistan 1957 9240934 Asia 30.332 820.853030
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Out[33]: country year population continent life_exp gdp_cap 0 Afghanistan 1952 8425333 Asia 28.801 779.445314 1 Afghanistan 1957 9240934 Asia 30.332 820.853030 2 Afghanistan 1962 10267083 Asia 31.997 853.100710 3 Afghanistan 1967 11537966 Asia 34.020 836.197138 4 Afghanistan 1972 13079460 Asia 36.088 739.981106 5 Afghanistan 1977 14880372 Asia 38.438 786.113360 6 Afghanistan 1982 12881816 Asia 39.854 978.011439
6 Atghanistan 1982 12861816 Asia 39.834 978.011439 7 Afghanistan 1987 13867957 Asia 40.822 852.395945 8 Afghanistan 1992 16317921 Asia 41.674 649.341395 9 Afghanistan 1997 22227415 Asia 41.763 635.341351 10 Afghanistan 2002 25268405 Asia 42.129 726.734055 11 Afghanistan 2007 31889923 Asia 43.828 974.580338 12 Albania 1952 1282697 Europe 55.230 1601.056136 13 Albania 1957 1476505 Europe 59.280 1942.284244
14 Albania 1962 1728137 Europe 64.820 2312.888958 In []:
1700 Zimbabwe 1992 10704340 Africa 60.377 693.420786 1701 Zimbabwe 1997 11404948 Africa 46.809 792.449960 1702 Zimbabwe 2002 11926563 Africa 39.989 672.038623 1703 Zimbabwe 2007 12311143 Africa 43.487 469.709298 Out [19]: country year population continent life_exp gdp_cap
1694 Zimbabwe 1962 4277736 Africa 52.358 527.272182 1695 Zimbabwe 1967 4995432 Africa 53.995 569.795071 1696 Zimbabwe 1972 5861135 Africa 55.635 799.362176 1697 Zimbabwe 1977 6642107 Africa 57.674 685.587682 1698 Zimbabwe 1982 7636524 Africa 60.363 788.855041 1699 Zimbabwe 1987 9216418 Africa 62.351 706.157306 1701 Zimbabwe 1992 10704340 Africa 60.377 693.420786
1702 Zimbabwe 2002 11926563 Africa 39.989 672.038623 1703 Zimbabwe 2007 12311143 Africa 43.487 469.709298 In []: df.info() <class 'pandas.core.frame.dataframe'=""></class>
RangeIndex: 1704 entries, 0 to 1703 Data columns (total 6 columns): # Column Non-Null Count Dtype
Out [21]: year population life_exp gdp_cap count 1704.00000 1.704000e+03 1704.00000 1704.000000 mean 1979.50000 2.960121e+07 59.474439 7215.327081 std 17.26533 1.061579e+08 12.917107 9857.454543 min 1952.00000 6.001100e+04 23.599000 241.165876 25% 1965.75000 2.793664e+06 48.198000 1202.060309
50% 1979.50000 7.023596e+06 60.712500 3531.846988 75% 1993.25000 1.958522e+07 70.845500 9325.462346 max 2007.00000 1.318683e+09 82.603000 113523.132900 In [22]: df.describe(include="all") Out[22]: country year population continent life_exp gdp_cap count 1704 1704.00000 1.704000e+03 1704 1704.000000 1704.000000
unique 142 NaN NaN 5 NaN NaN top Afghanistan NaN NaN Africa NaN NaN freq 12 NaN NaN 624 NaN NaN mean NaN 1979.50000 2.960121e+07 NaN 59.474439 7215.327081 std NaN 17.26533 1.061579e+08 NaN 12.917107 9857.454543 min NaN 1952.00000 6.001100e+04 NaN 23.599000 241.165876 25% NaN 1965.75000 2.793664e+06 NaN 48.198000 1202.060309 50% NaN 1979.50000 7.023596e+06 NaN 60.712500 3531.846988
75% NaN 1993.25000 1.958522e+07 NaN 70.845500 9325.462346 max NaN 2007.00000 1.318683e+09 NaN 82.603000 113523.132900 In [23]: df.shape Out[23]: (1704, 6) In []:
In [24]: #creating a data frame In []: 1.Row oriented approach In [25]: df.head(2) Out[25]: country year population continent life_exp gdp_cap
0 Afghanistan 1952 8425333 Asia 28.801 779.445314 1 Afghanistan 1957 9240934 Asia 30.332 820.853030 In [26]: pd.DataFrame([["Afghanistan", 1952, 8425333, "Asia", 28.801, 779.445314],
<pre>0 Afghanistan 1952 8425333</pre>
Columns=["country", "year", "population", "continent", "life_exp", "gdp_cap"]) Out[31]: Country year population continent life_exp gdp_cap O Afghanistan 1952 8425333 Asia 28.801 779.445314
Columns=["country", "year", "population", "continent", "life_exp", "gdp_cap"]) Out[31]: country year population continent life_exp gdp_cap
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