

[illegible]

prodigy_infotech_task1_DS - Last Checkpoint: 9 hours ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (pykernel)

Out[2]:

	Country Name	Country Code	Region	IncomeGroup	Year	Birth rate, crude (per 1,000 people)	Death rate, crude (per 1,000 people)	Electric power consumption (kWh per capita)	GDP (USD)	GDP per capita (USD)	Individuals using the internet (% of population)	Infant mortality rate (per 1,000 live births)	Life expectancy at birth (years)	Population density (people per sq. km of land area)	Un
0	Afghanistan	AFG	South Asia	Low income	2018	NaN	NaN	NaN	1.938300e+10	520.887	NaN	47.9	NaN	56.6378	
1	Afghanistan	AFG	South Asia	Low income	2017	33.211	6.575	NaN	2.018180e+10	558.302	13.90	49.9	54.130	55.5963	
2	Afghanistan	AFG	South Asia	Low income	2010	33.981	6.742	NaN	1.939260e+10	547.228	11.20	51.2	53.763	54.1671	
3	Afghanistan	AFG	South Asia	Low income	2015	34.809	5.929	NaN	1.990710e+10	578.458	8.26	53.1	63.277	52.7121	
4	Afghanistan	AFG	South Asia	Low income	2014	35.708	7.141	NaN	2.048490e+10	613.858	7.00	55.1	62.966	51.1148	

In [3]: data.tail()

Out[3]:

	Country Name	Country Code	Region	IncomeGroup	Year	Birth rate, crude (per 1,000 people)	Death rate, crude (per 1,000 people)	Electric power consumption (kWh per capita)	GDP (USD)	GDP per capita (USD)	Individuals using the internet (% of population)	Infant mortality rate (per 1,000 live births)	Life expectancy at birth (years)	Population density (people per sq. km of land area)	Un
12444	Zimbabwe	ZWE	Sub-Saharan Africa	Low income	1964	47.770	13.033	NaN	1.217138e+09	201.558	NaN	63.2	54.849	15.1746	
12445	Zimbabwe	ZWE	Sub-Saharan Africa	Low income	1963	47.870	13.410	NaN	1.153612e+09	277.480	NaN	65.7	53.493	10.8919	
12446	Zimbabwe	ZWE	Sub-Saharan Africa	Low income	1962	47.950	13.783	NaN	1.117632e+09	226.689	NaN	60.1	53.840	10.6813	

prodigy_infotech_task1_DS - Last Checkpoint: 9 hours ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

12444	Zimbabwe	ZWE	Sub-Saharan Africa	Low income	1964	47.770	13.083	NaN	1.217138e+09	281.558	NaN	83.2	54.849	11.1745
12445	Zimbabwe	ZWE	Sub-Saharan Africa	Low income	1963	47.876	13.419	NaN	1.159512e+09	277.480	NaN	85.7	54.403	10.8019
12446	Zimbabwe	ZWE	Sub-Saharan Africa	Low income	1962	47.950	13.762	NaN	1.117602e+09	276.889	NaN	88.1	53.946	10.4413
12447	Zimbabwe	ZWE	Sub-Saharan Africa	Low income	1961	47.988	14.104	NaN	1.096647e+09	280.829	NaN	90.5	53.483	10.0944
12448	Zimbabwe	ZWE	Sub-Saharan Africa	Low income	1960	47.996	14.441	NaN	1.052890e+09	278.814	NaN	92.8	53.019	NaN

In [4]: data.columns

Out[4]: Index(['Country Name', 'Country Code', 'Region', 'IncomeGroup', 'Year', 'Birth rate, crude (per 1,000 people)', 'Death rate, crude (per 1,000 people)', 'Electric power consumption (kWh per capita)', 'GDP (USD)', 'GDP per capita (USD)', 'Individuals using the Internet (% of population)', 'Infant mortality rate (per 1,000 live births)', 'Life expectancy at birth (years)', 'Population density (people per sq. km of land area)', 'Unemployment (% of total labor force) (modeled ILO estimate)'], dtype='object')

In [5]: data.shape

Out[5]: (12449, 15)

In [6]: data.size

prodigy_infotech_task1_DS - Last Checkpoint: 9 hours ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (pykernel)

```
In [9]: data=data.dropna()
data.reset_index(inplace=True)
```

Out [9]:

	Country Name	Country Code	Region	IncomeGroup	Year	Birth rate, crude (per 1,000 people)	Death rate, crude (per 1,000 people)	Electric power consumption (kWh per capita)	GDP (USD)	GDP per capita (USD)	Individuals using the Internet (% of population)	Infant mortality rate (per 1,000 live births)	Life expectancy at birth (years)	Population density (people per sq. km of land area)	Urban pop. %
63	Albania	ALB	Europe & Central Asia	Upper middle income	2014	12.259	7.219	2568.37	1.322020e+10	4570.67	60.160	9.9	77.813	105.442	
64	Albania	ALB	Europe & Central Asia	Upper middle income	2013	12.257	7.088	2553.25	1.277670e+10	4413.88	53.208	9.8	77.524	105.699	
65	Albania	ALB	Europe & Central Asia	Upper middle income	2012	12.197	6.896	2119.33	1.231890e+10	4247.81	54.856	10.2	77.252	105.384	
66	Albania	ALB	Europe & Central Asia	Upper middle income	2011	12.100	6.816	2205.70	1.206090e+10	4437.18	49.906	11.0	76.914	105.026	

prodigy_infotech_task1_DS - Last Checkpoint: 9 hours ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (pykernel)

67 Albania ALB Central Asia ussse income income 2010 12,001 6,841 1943.34 1.192700e+10 4054.36 45,000 11.9 76,562 106,315

```
In [10]: data1.isna().sum()
```

country Name	0
country Code	0
Region	0
IncomeGroup	0
Year	0
Birth rate, crude (per 1,000 people)	0
Death rate, crude (per 1,000 people)	0
Electric power consumption (kwh per capita)	0
GDP (USD)	0
GDP per capita (USD)	0
Individuals using the Internet (% of population)	0
Infant mortality rate (per 1,000 live births)	0
Life expectancy at birth (years)	0
Population density (people per sq. km of land area)	0
Unemployment (% of total labor force) (modeled ILO estimate)	0
dtype: int64	

```
In [11]: data1.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2775 entries, 63 to 12414
Data columns (total 15 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   country Name                          2775 non-null   object
1   country Code                          2775 non-null   object
2   Region                                2775 non-null   object
3   IncomeGroup                           2775 non-null   object
4   Year                                  2775 non-null   int64
5   Birth rate, crude (per 1,000 people)  2775 non-null   float64
```











