in this section we learn about:

- importing data into python
- Data fram via panda
- exploring dataset: head(), tail(), info(), describe()
- Renaming columns
- Subsetting dataframes
- Basic operations with dataframe
- filtering data frame
- seaborn intoduction

In [136...

import numpy as np
import pandas as pd
pd.__version__

Out[136...

'2.2.2'

In [138...

stats = pd.read_csv(r"C:\Users\swati\Downloads\data.csv")
stats

Out[138...

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
0	Aruba	ABW	10.244	78.9	High income
1	Afghanistan	AFG	35.253	5.9	Low income
2	Angola	AGO	45.985	19.1	Upper middle income
3	Albania	ALB	12.877	57.2	Upper middle income
4	United Arab Emirates	ARE	11.044	88.0	High income
•••					
190	Yemen, Rep.	YEM	32.947	20.0	Lower middle income
191	South Africa	ZAF	20.850	46.5	Upper middle income
192	Congo, Dem. Rep.	COD	42.394	2.2	Low income
193	Zambia	ZMB	40.471	15.4	Lower middle income
194	Zimbabwe	ZWE	35.715	18.5	Low income

195 rows × 5 columns

In [140...

len(stats)

```
Out[140...
            195
In [142...
           stats.columns
Out[142...
            Index(['CountryName', 'CountryCode', 'BirthRate', 'InternetUsers',
                    'IncomeGroup'],
                   dtype='object')
In [144...
           len(stats.columns)
Out[144...
In [146...
           stats.head()
Out[146...
                                    CountryCode
                                                                                   IncomeGroup
                     CountryName
                                                  BirthRate
                                                              InternetUsers
            0
                                            ABW
                                                      10.244
                                                                       78.9
                            Aruba
                                                                                     High income
                       Afghanistan
                                                                        5.9
                                                                                      Low income
            1
                                             AFG
                                                      35.253
            2
                                                                             Upper middle income
                            Angola
                                             AGO
                                                      45.985
                                                                       19.1
            3
                                                                             Upper middle income
                           Albania
                                             ALB
                                                      12.877
                                                                       57.2
               United Arab Emirates
                                             ARE
                                                      11.044
                                                                       0.88
                                                                                     High income
           stats.head(2)
In [148...
Out[148...
               CountryName CountryCode
                                             BirthRate InternetUsers IncomeGroup
            0
                       Aruba
                                       ABW
                                                10.244
                                                                 78.9
                                                                         High income
                  Afghanistan
                                       AFG
                                                35.253
                                                                   5.9
                                                                          Low income
In [150...
           stats.tail()
Out[150...
                                   CountryCode
                                                  BirthRate
                    CountryName
                                                             InternetUsers
                                                                                   IncomeGroup
            190
                       Yemen, Rep.
                                            YEM
                                                     32.947
                                                                       20.0
                                                                            Lower middle income
            191
                      South Africa
                                             ZAF
                                                     20.850
                                                                       46.5
                                                                            Upper middle income
                 Congo, Dem. Rep.
                                            COD
                                                     42.394
                                                                        2.2
                                                                                     Low income
                                                                            Lower middle income
            193
                           Zambia
                                            ZMB
                                                     40.471
                                                                       15.4
            194
                        Zimbabwe
                                            ZWE
                                                     35.715
                                                                       18.5
                                                                                     Low income
In [152...
           stats.tail(3)
Out[152...
                    CountryName
                                   CountryCode
                                                  BirthRate
                                                             InternetUsers
                                                                                   IncomeGroup
            192 Congo, Dem. Rep.
                                            COD
                                                     42.394
                                                                        2.2
                                                                                     Low income
                                                                            Lower middle income
            193
                           Zambia
                                            ZMB
                                                     40.471
                                                                       15.4
            194
                        Zimbabwe
                                            ZWE
                                                     35.715
                                                                       18.5
                                                                                     Low income
```

11/18/24, 5:10 PM

```
DATA FRAME
In [154...
          stats.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 195 entries, 0 to 194
         Data columns (total 5 columns):
               Column
                              Non-Null Count Dtype
                               _____
          0
               CountryName
                               195 non-null
                                                object
                                                object
               CountryCode
                               195 non-null
          2
               BirthRate
                               195 non-null
                                                float64
               InternetUsers 195 non-null
                                                float64
                                                object
               IncomeGroup
                               195 non-null
         dtypes: float64(2), object(3)
         memory usage: 7.7+ KB
In [156...
           stats.describe()
Out[156...
                   BirthRate
                              InternetUsers
                  195.000000
                                 195.000000
           count
                   21.469928
                                  42.076471
           mean
                   10.605467
                                  29.030788
             std
             min
                    7.900000
                                   0.900000
            25%
                                  14.520000
                   12.120500
            50%
                   19.680000
                                  41.000000
            75%
                                  66.225000
                   29.759500
            max
                   49.661000
                                  96.546800
In [158...
           stats.describe().transpose()
Out[158...
                                                 std
                                                      min
                                                              25%
                                                                     50%
                                                                              75%
                         count
                                    mean
                                                                                       max
               BirthRate
                          195.0
                                21.469928
                                           10.605467
                                                       7.9
                                                            12.1205
                                                                    19.68
                                                                           29.7595
                                                                                    49.6610
           InternetUsers
                          195.0 42.076471
                                           29.030788
                                                       0.9
                                                            14.5200
                                                                    41.00
                                                                           66.2250
                                                                                    96.5468
In [160...
           stats.head()
Out[160...
                   CountryName
                                  CountryCode BirthRate InternetUsers
                                                                                IncomeGroup
           0
                                          ABW
                                                                    78.9
                           Aruba
                                                   10.244
                                                                                 High income
           1
                                           AFG
                      Afghanistan
                                                   35.253
                                                                     5.9
                                                                                  Low income
           2
                          Angola
                                          AGO
                                                   45 985
                                                                         Upper middle income
```

In [162... stats.columns + ['a', 'b','c','d','e'] stats.head()

Out[162		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup				
	0	Aruba	ABW	10.244	78.9	High income				
	1	Afghanistan	AFG	35.253	5.9	Low income				
	2	Angola	AGO	45.985	19.1	Upper middle income				
	3	Albania	ALB	12.877	57.2	Upper middle income				
	4	United Arab Emirates	ARE	11.044	88.0	High income				
In [164		ats.columns = ['Cou ats.columns	ntryName','Co	untryCode'	, 'BirthRate'	, 'InternetUsers','I				
Out[164	In	<pre>Index(['CountryName', 'CountryCode', 'BirthRate', 'InternetUsers',</pre>								
			• •							
In [166	sta		• •							
_	sta	dtype='object')	• •	BirthRate	InternetUsers	IncomeGroup				
_	sta	dtype='object')		BirthRate	InternetUsers 78.9	IncomeGroup High income				
		dtype='object') ats.head() CountryName	CountryCode			·				
	0	dtype='object') ats.head() CountryName Aruba	CountryCode ABW	10.244	78.9	High income				
In [166 Dut[166	0	dtype='object') ats.head() CountryName Aruba Afghanistan	CountryCode ABW AFG	10.244 35.253	78.9 5.9	High income Low income				
	0 1 2	dtype='object') ats.head() CountryName Aruba Afghanistan Angola	CountryCode ABW AFG AGO	10.244 35.253 45.985	78.9 5.9 19.1	High income Low income Upper middle income				

Out[168...

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
0	Aruba	ABW	10.244	78.9	High income
1	Afghanistan	AFG	35.253	5.9	Low income
2	Angola	AGO	45.985	19.1	Upper middle income
3	Albania	ALB	12.877	57.2	Upper middle income
4	United Arab Emirates	ARE	11.044	88.0	High income
•••					
190	Yemen, Rep.	YEM	32.947	20.0	Lower middle income
191	South Africa	ZAF	20.850	46.5	Upper middle income
192	Congo, Dem. Rep.	COD	42.394	2.2	Low income
193	Zambia	ZMB	40.471	15.4	Lower middle income
194	Zimbabwe	ZWE	35.715	18.5	Low income

195 rows × 5 columns

In [170...

stats[21:26]

Out[170...

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
21	Belize	BLZ	23.092	33.60	Upper middle income
22	Bermuda	BMU	10.400	95.30	High income
23	Bolivia	BOL	24.236	36.94	Lower middle income
24	Brazil	BRA	14.931	51.04	Upper middle income
25	Barbados	BRB	12.188	73.00	High income

In [172...

stats.head(10)

Out[172...

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
0	Aruba	ABW	10.244	78.9000	High income
1	Afghanistan	AFG	35.253	5.9000	Low income
2	Angola	AGO	45.985	19.1000	Upper middle income
3	Albania	ALB	12.877	57.2000	Upper middle income
4	United Arab Emirates	ARE	11.044	88.0000	High income
5	Argentina	ARG	17.716	59.9000	High income
6	Armenia	ARM	13.308	41.9000	Lower middle income
7	Antigua and Barbuda	ATG	16.447	63.4000	High income
8	Australia	AUS	13.200	83.0000	High income
9	Austria	AUT	9.400	80.6188	High income

In [174... stats[::-1]

Out[174...

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
194	Zimbabwe	ZWE	35.715	18.5	Low income
193	Zambia	ZMB	40.471	15.4	Lower middle income
192	Congo, Dem. Rep.	COD	42.394	2.2	Low income
191	South Africa	ZAF	20.850	46.5	Upper middle income
190	Yemen, Rep.	YEM	32.947	20.0	Lower middle income
•••					
4	United Arab Emirates	ARE	11.044	88.0	High income
3	Albania	ALB	12.877	57.2	Upper middle income
2	Angola	AGO	45.985	19.1	Upper middle income
1	Afghanistan	AFG	35.253	5.9	Low income
0	Aruba	ABW	10.244	78.9	High income

195 rows × 5 columns

In [176... stats[: : 20]

ut[176		CountryName (CountryCode	BirthRate	InternetUsers	IncomeGroup
	0	Aruba	ABW	10.244	78.9000	High income
	20	Belarus	BLR	12.500	54.1700	Upper middle income
	40	Costa Rica	CRI	15.022	45.9600	Upper middle income
	60	Gabon	GAB	30.555	9.2000	Upper middle income
	80	India	IND	20.291	15.1000	Lower middle income
	100	Libya	LBY	21.425	16.5000	Upper middle income
	120	Mozambique	MOZ	39.705	5.4000	Low income
	140	Poland	POL	9.600	62.8492	High income
	160	Suriname	SUR	18.455	37.4000	Upper middle income
	180	Uruguay	URY	14.374	57.6900	High income
ı [178	stats	['CountryName']].head()			
		_		t		
ı [180	stats	[['CountryName	','BirthRate	']].head()		
it[180		CountryName	e BirthRate			
	0	Aruba	a 10.244			
	1	Afghanistar	a 35.253			
	2	Angola	a 45.985			
	3	Albania	a 12.877			
,	4 Ur	nited Arab Emirate	s 11.044			
[182	stats	['BirthRate']				
	0 1 2 3 4 190 191 192 193 194 Name:	10.244 35.253 45.985 12.877 11.044 32.947 20.850 42.394 40.471 35.715 BirthRate, Le	ngth: 195, d	type: floa	t64	
[184	stats	[4:8][['Country	/Name','Birt	hRate']]		

```
Out[184...
                    CountryName BirthRate
            4 United Arab Emirates
                                       11.044
            5
                         Argentina
                                       17.716
            6
                          Armenia
                                       13.308
            7 Antigua and Barbuda
                                       16.447
In [186...
           stats[['CountryName', 'BirthRate']][4:8]
Out[186...
                    CountryName BirthRate
               United Arab Emirates
                                       11.044
            5
                         Argentina
                                       17.716
            6
                          Armenia
                                       13.308
            7 Antigua and Barbuda
                                       16.447
In [188...
           df1 = stats[['CountryName','BirthRate']]
           df1
Out[188...
                       CountryName BirthRate
              0
                               Aruba
                                          10.244
                          Afghanistan
                                          35.253
              2
                              Angola
                                          45.985
              3
                             Albania
                                          12.877
              4 United Arab Emirates
                                          11.044
            190
                          Yemen, Rep.
                                          32.947
            191
                         South Africa
                                          20.850
            192
                    Congo, Dem. Rep.
                                          42.394
            193
                             Zambia
                                          40.471
            194
                           Zimbabwe
                                          35.715
           195 rows × 2 columns
```

In [190...

df2 = stats[4:8]

df2

ut[190		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
	4	United Arab Emirates	ARE	11.044	88.0	High income
	5	Argentina	ARG	17.716	59.9	High income
	6	Armenia	ARM	13.308	41.9	Lower middle income
	7	Antigua and Barbuda	ATG	16.447	63.4	High income
n [192	df2	1				
it[192		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
	4	United Arab Emirates	ARE	11.044	88.0	High income
	5	Argentina	ARG	17.716	59.9	High income
	6	Armenia	ARM	13.308	41.9	Lower middle income
	7	Antigua and Barbuda	ATG	16.447	63.4	High income
n [194	sta	its[['CountryCode',	'BirthRate','	InternetUs	ers']][4:8]	
ut[194		CountryCode Birth	Rate InternetU	Isers		
	4	ARE 11	.044	88.0		
	5	ARG 17	7.716	59.9		
	6	ARM 13	3.308	41.9		
	7	ATG 16	5.447	63.4		
[196	sta	nts.BirthRate * sta	ıts.InternetUs	ers		
t[196	0 1 2 3 4 190 192 193 194 Ler	969.5250 93.2668 623.2534	Float64			
[198		rts['myCalc'] = sta rts['myCalc']	ts.BirthRate	* stats.In	ternetUsers	

```
Out[198... 0 808.2516
         1
              207.9927
         2
               878.3135
         3
               736.5644
         4
               971.8720
         190
              658.9400
         191 969.5250
         192
               93.2668
         193
               623.2534
         194
                660.7275
         Name: myCalc, Length: 195, dtype: float64
```

In [200...

stats.drop('myCalc',axis = 1)

Out[200...

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
0	Aruba	ABW	10.244	78.9	High income
1	Afghanistan	AFG	35.253	5.9	Low income
2	Angola	AGO	45.985	19.1	Upper middle income
3	Albania	ALB	12.877	57.2	Upper middle income
4	United Arab Emirates	ARE	11.044	88.0	High income
•••			•••		
190	Yemen, Rep.	YEM	32.947	20.0	Lower middle income
191	South Africa	ZAF	20.850	46.5	Upper middle income
192	Congo, Dem. Rep.	COD	42.394	2.2	Low income
193	Zambia	ZMB	40.471	15.4	Lower middle income
194	Zimbabwe	ZWE	35.715	18.5	Low income

195 rows × 5 columns

In [202...

stats.head()

```
Out[202...
                CountryName CountryCode BirthRate InternetUsers
                                                                        IncomeGroup
                                                                                        myCalc
           0
                       Aruba
                                       ABW
                                                 10.244
                                                                 78.9
                                                                          High income
                                                                                       808.2516
           1
                  Afghanistan
                                        AFG
                                                 35.253
                                                                  5.9
                                                                          Low income
                                                                                       207.9927
                                                                         Upper middle
           2
                                                                 19.1
                                                                                       878.3135
                       Angola
                                       AGO
                                                45.985
                                                                               income
                                                                         Upper middle
           3
                      Albania
                                        ALB
                                                12.877
                                                                 57.2
                                                                                       736.5644
                                                                               income
                  United Arab
           4
                                                                 0.88
                                                                          High income 971.8720
                                        ARE
                                                 11.044
                     Emirates
In [204...
           stats.columns[2]
Out[204...
            'BirthRate'
In [206...
           stats.InternetUsers<2</pre>
Out[206...
           0
                   False
           1
                   False
           2
                   False
           3
                   False
           4
                   False
                   . . .
           190
                   False
                   False
           191
           192
                   False
           193
                   False
           194
                   False
           Name: InternetUsers, Length: 195, dtype: bool
In [208...
           Filter = stats.InternetUsers<2</pre>
           Filter
Out[208...
           0
                   False
           1
                   False
           2
                   False
           3
                   False
           4
                   False
           190
                   False
           191
                   False
           192
                   False
           193
                   False
           194
                   False
           Name: InternetUsers, Length: 195, dtype: bool
In [210...
           stats[3:7]
```

Out[210	С	ountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup	myCalc
	3	Albania	ALB	12.877	57.2	Upper middle income	736.5644
	4	United Arab Emirates	ARE	11.044	88.0	High income	971.8720
	5	Argentina	ARG	17.716	59.9	High income	1061.1884
	6	Armenia	ARM	13.308	41.9	Lower middle income	557.6052
In [212	stats	.BirthRate>4	10				
Out[212	0 1 2 3 4 190 191 192 193 194 Name:	False False False False False False True True False Salse	Length: 195,	dtype: boo	ol		
In [214	Filte Filte	er2 = stats.E er2	BirthRate>40				
Out[214	0 1 2 3 4 190 191 192 193 194 Name:	False False False False False False True True False	Length: 195,	dtype: boo	ol		
In [216	stats	[Filter2]					

Out[216		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup	myCalc
	2	Angola	AGO	45.985	19.1	Upper middle income	878.3135
	11	Burundi	BDI	44.151	1.3	Low income	57.3963
	14	Burkina Faso	BFA	40.551	9.1	Low income	369.0141
	65	Gambia, The	GMB	42.525	14.0	Low income	595.3500
	115	Mali	MLI	44.138	3.5	Low income	154.4830
	127	Niger	NER	49.661	1.7	Low income	84.4237
	128	Nigeria	NGA	40.045	38.0	Lower middle income	1521.7100
	156	Somalia	SOM	43.891	1.5	Low income	65.8365
	167	Chad	TCD	45.745	2.3	Low income	105.2135
	178	Uganda	UGA	43.474	16.2	Low income	704.2788
	192	Congo, Dem. Rep.	COD	42.394	2.2	Low income	93.2668
	193	Zambia	ZMB	40.471	15.4	Lower middle income	623.2534
In [218	Filte	er & Filter2					
Out[218	0 1 2 3 4	False False False False False					
	190 191 192 193 194 Leng	False False False False False False th: 195, dtype	: bool				
In [220	stats	s[Filter & Fil	ter2]				
Out[220		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup	myCalc
-	11	Burundi	BDI	44.151	1.3	Low income	57.3963
	127	Niger	NER	49.661	1.7	Low income	84.4237
	156	Somalia	SOM	43.891	1.5	Low income	65.8365
In [222	stats	s[(stats.Birth	Rate > 40) &	(stats.In	ternetUsers <	2)]	

Out[222	222 CountryNa		CountryCode	BirthRate	InternetUsers	IncomeGroup	myCalc
	11	Burundi	BDI	44.151	1.3	Low income	57.3963
	127	Niger	NER	49.661	1.7	Low income	84.4237
	156	Somalia	SOM	43.891	1.5	Low income	65.8365
In [224	<pre>stats[stats.IncomeGroup == 'Low income']</pre>						

Out[224...

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup	myCalc
1	Afghanistan	AFG	35.253	5.90	Low income	207.99270
11	Burundi	BDI	44.151	1.30	Low income	57.39630
13	Benin	BEN	36.440	4.90	Low income	178.55600
14	Burkina Faso	BFA	40.551	9.10	Low income	369.01410
29	Central African Republic	CAF	34.076	3.50	Low income	119.26600
38	Comoros	COM	34.326	6.50	Low income	223.11900
52	Eritrea	ERI	34.800	0.90	Low income	31.32000
55	Ethiopia	ETH	32.925	1.90	Low income	62.55750
64	Guinea	GIN	37.337	1.60	Low income	59.73920
65	Gambia, The	GMB	42.525	14.00	Low income	595.35000
66	Guinea-Bissau	GNB	37.503	3.10	Low income	116.25930
77	Haiti	НТІ	25.345	10.60	Low income	268.65700
93	Cambodia	KHM	24.462	6.80	Low income	166.34160
99	Liberia	LBR	35.521	3.20	Low income	113.66720
111	Madagascar	MDG	34.686	3.00	Low income	104.05800
115	Mali	MLI	44.138	3.50	Low income	154.48300
120	Mozambique	MOZ	39.705	5.40	Low income	214.40700
123	Malawi	MWI	39.459	5.05	Low income	199.26795
127	Niger	NER	49.661	1.70	Low income	84.42370
132	Nepal	NPL	20.923	13.30	Low income	278.27590
148	Rwanda	RWA	32.689	9.00	Low income	294.20100
154	Sierra Leone	SLE	36.729	1.70	Low income	62.43930
156	Somalia	SOM	43.891	1.50	Low income	65.83650
158	South Sudan	SSD	37.126	14.10	Low income	523.47660
167	Chad	TCD	45.745	2.30	Low income	105.21350
168	Togo	TGO	36.080	4.50	Low income	162.36000
177	Tanzania	TZA	39.518	4.40	Low income	173.87920
178	Uganda	UGA	43.474	16.20	Low income	704.27880
192	Congo, Dem. Rep.	COD	42.394	2.20	Low income	93.26680
194	Zimbabwe	ZWE	35.715	18.50	Low income	660.72750

In [226...

stats.IncomeGroup.unique()

Out[226... array(['High income', 'Low income', 'Upper middle income', 'Lower middle income'], dtype=object)

In [228... stats

stats.head()

Out[228...

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup	myCalc
0	Aruba	ABW	10.244	78.9	High income	808.2516
1	Afghanistan	AFG	35.253	5.9	Low income	207.9927
2	Angola	AGO	45.985	19.1	Upper middle income	878.3135
3	Albania	ALB	12.877	57.2	Upper middle income	736.5644
4	United Arab Emirates	ARE	11.044	88.0	High income	971.8720

In [233...

Introduction to seaborn # seaborn is very powerfull visualizatio(STATISTIC VIS

import matplotlib.pyplot as plt # visulaiztion
import seaborn as sns # distribution visualtion

%matplotlib inline

plt.rcParams['figure.figsize'] = 8,4

#import warnings

#warnings.filterwarnings('ignore')

In [235...

Distributions: vis1 = sns.distplot(stats["InternetUsers"])

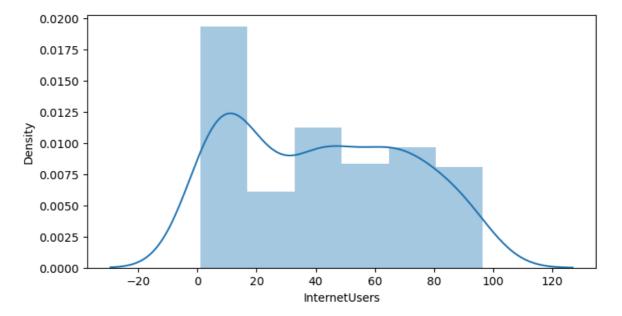
C:\Users\swati\AppData\Local\Temp\ipykernel_8900\2094964690.py:2: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

vis1 = sns.distplot(stats["InternetUsers"])



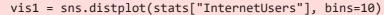
In [251... vis1 = sns.distplot(stats["InternetUsers"], bins=10)

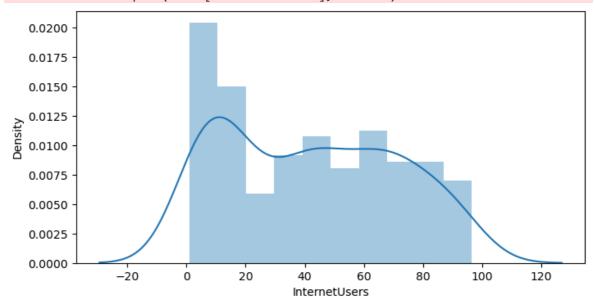
C:\Users\swati\AppData\Local\Temp\ipykernel_8900\2509260793.py:1: UserWarning:

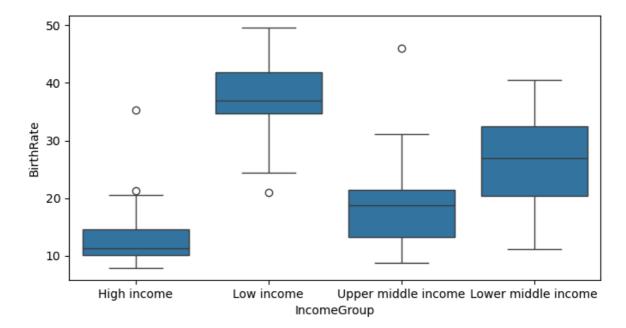
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

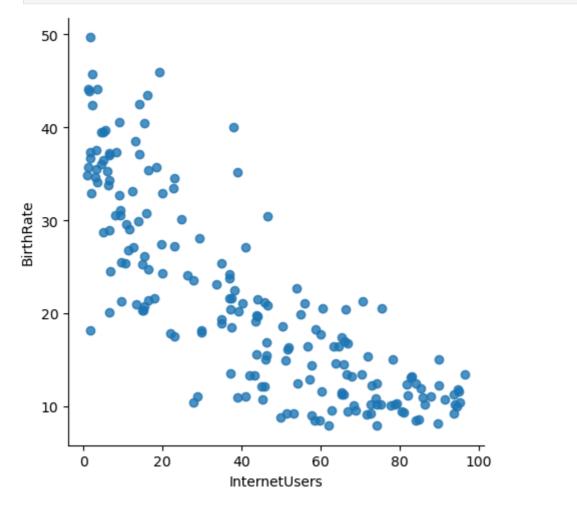
For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

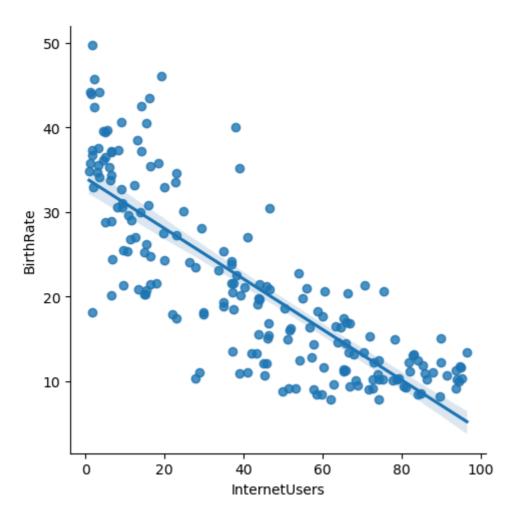


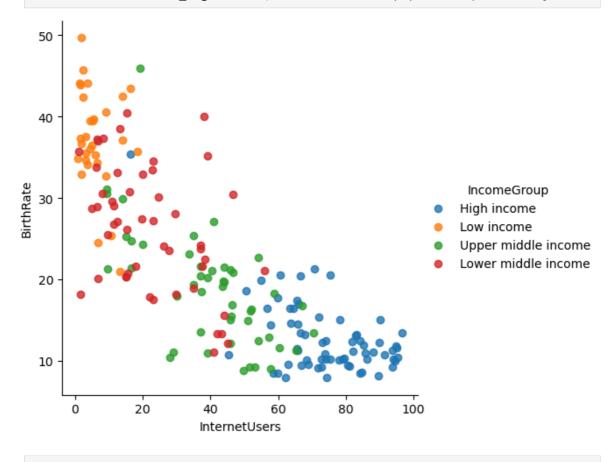












In [245... vis1 = sns.distplot(stats["InternetUsers"])

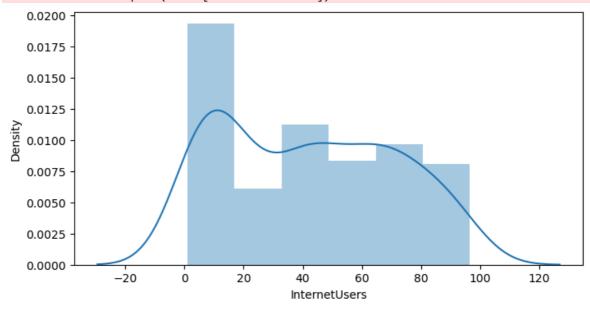
C:\Users\swati\AppData\Local\Temp\ipykernel_8900\1972857757.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

vis1 = sns.distplot(stats["InternetUsers"])



In [247... vis3 = sns.distplot(stats["InternetUsers"], bins=20)

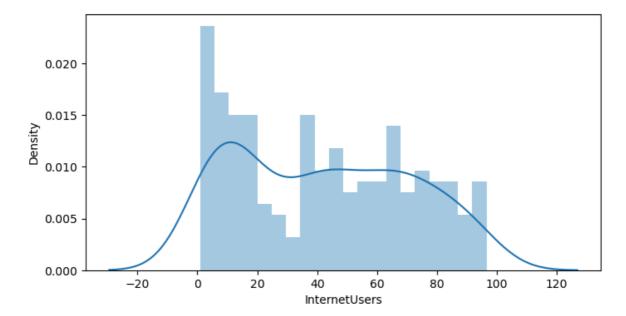
C:\Users\swati\AppData\Local\Temp\ipykernel_8900\3942625081.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

vis3 = sns.distplot(stats["InternetUsers"], bins=20)



In [249... vis5 = sns.lmplot(data = stats, x='InternetUsers', y = 'BirthRate')

