```
import pandas as pd
In [1]:
In [2]:
         pd.__version__
Out[2]:
         '2.3.0'
In [3]: df = pd.read_csv(r"C:\Users\hp\Downloads\data.csv")
         df
Out[3]:
                   CountryName CountryCode
                                                BirthRate InternetUsers
                                                                               IncomeGroup
           0
                           Aruba
                                          ABW
                                                    10.244
                                                                    78.9
                                                                                 High income
                      Afghanistan
                                           AFG
                                                    35.253
                                                                     5.9
                                                                                 Low income
            1
                                                                                Upper middle
           2
                          Angola
                                          AGO
                                                    45.985
                                                                    19.1
                                                                                     income
                                                                                Upper middle
            3
                          Albania
                                           ALB
                                                    12.877
                                                                    57.2
                                                                                     income
                      United Arab
            4
                                           ARE
                                                    11.044
                                                                    88.0
                                                                                 High income
                         Emirates
                                                                                Lower middle
         190
                      Yemen, Rep.
                                           YEM
                                                    32.947
                                                                    20.0
                                                                                     income
                                                                                Upper middle
         191
                      South Africa
                                           ZAF
                                                                    46.5
                                                    20.850
                                                                                     income
                                                                                 Low income
         192
                 Congo, Dem. Rep.
                                           COD
                                                    42.394
                                                                     2.2
                                                                                Lower middle
         193
                          Zambia
                                          ZMB
                                                    40.471
                                                                    15.4
                                                                                     income
         194
                       Zimbabwe
                                           ZWE
                                                    35.715
                                                                    18.5
                                                                                 Low income
        195 rows × 5 columns
In [4]:
         id(df)
Out[4]:
         2157609854560
         len(df)
In [5]:
Out[5]:
         195
In [6]: df.columns
Out[6]: Index(['CountryName', 'CountryCode', 'BirthRate', 'InternetUsers',
                 'IncomeGroup'],
                dtype='object')
In [7]:
         df.isnull()
```

Out[7]:		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
	0	False	False	False	False	False
	1	False	False	False	False	False
	2	False	False	False	False	False
	3	False	False	False	False	False
	4	False	False	False	False	False
	•••					•••
	190	False	False	False	False	False
	191	False	False	False	False	False
	192	False	False	False	False	False
	193	False	False	False	False	False
	194	False	False	False	False	False

195 rows × 5 columns

In [8]: df.isna()

Out[8]:		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
	0	False	False	False	False	False
	1	False	False	False	False	False
	2	False	False	False	False	False
	3	False	False	False	False	False
	4	False	False	False	False	False
	•••					
	190	False	False	False	False	False
	191	False	False	False	False	False
	192	False	False	False	False	False
	193	False	False	False	False	False
	194	False	False	False	False	False

195 rows × 5 columns

```
df.isna().sum()
In [10]:
Out[10]:
          CountryName
                            0
          CountryCode
                            0
          BirthRate
                             0
          InternetUsers
                            0
          IncomeGroup
                             0
          dtype: int64
In [11]:
          df.head()
Out[11]:
                   CountryName
                                CountryCode BirthRate InternetUsers
                                                                               IncomeGroup
          0
                          Aruba
                                         ABW
                                                   10.244
                                                                   78.9
                                                                                High income
                                          AFG
                                                                                 Low income
          1
                     Afghanistan
                                                   35.253
                                                                    5.9
          2
                                                                         Upper middle income
                                          AGO
                                                   45.985
                                                                   19.1
                         Angola
          3
                         Albania
                                          ALB
                                                   12.877
                                                                         Upper middle income
                                                                   57.2
             United Arab Emirates
                                          ARE
                                                   11.044
                                                                   88.0
                                                                                High income
In [12]:
          df.tail()
Out[12]:
                  CountryName
                                 CountryCode BirthRate InternetUsers
                                                                              IncomeGroup
          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
                         Zambia
                                                                        Lower middle income
          193
                                         ZMB
                                                  40.471
                                                                   15.4
          194
                      Zimbabwe
                                         ZWE
                                                  35.715
                                                                   18.5
                                                                                Low income
In [13]: df.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
         1
              CountryCode
                              195 non-null
                                               object
                                               float64
         2
              BirthRate
                              195 non-null
                                               float64
              InternetUsers
                              195 non-null
              IncomeGroup
                              195 non-null
                                               object
         dtypes: float64(2), object(3)
        memory usage: 7.7+ KB
In [14]: | df[:]
```

\cap	14-	[1/1]	
\cup (コレ	14	

	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 [15]: df[1:11]

Out[15]:

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
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
10	Azerbaijan	AZE	18.300	58.7000	Upper middle income

In [16]: df[::-1]

Out[16]:

	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 [17]: df[1:100:10]

Out[17]:

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
1	Afghanistan	AFG	35.253	5.9000	Low income
11	Burundi	BDI	44.151	1.3000	Low income
21	Belize	BLZ	23.092	33.6000	Upper middle income
31	Switzerland	CHE	10.200	86.3400	High income
41	Cuba	CUB	10.400	27.9300	Upper middle income
51	Egypt, Arab Rep.	EGY	28.032	29.4000	Lower middle income
61	United Kingdom	GBR	12.200	89.8441	High income
71	Guatemala	GTM	27.465	19.7000	Lower middle income
81	Ireland	IRL	15.000	78.2477	High income
91	Kenya	KEN	35.194	39.0000	Lower middle income
	•				

In [18]: df[10:21]

Out[18]:

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
10	Azerbaijan	AZE	18.300	58.70000	Upper middle income
11	Burundi	BDI	44.151	1.30000	Low income
12	Belgium	BEL	11.200	82.17020	High income
13	Benin	BEN	36.440	4.90000	Low income
14	Burkina Faso	BFA	40.551	9.10000	Low income
15	Bangladesh	BGD	20.142	6.63000	Lower middle income
16	Bulgaria	BGR	9.200	53.06150	Upper middle income
17	Bahrain	BHR	15.040	90.00004	High income
18	Bahamas, The	BHS	15.339	72.00000	High income
19	Bosnia and Herzegovina	ВІН	9.062	57.79000	Upper middle income
20	Belarus	BLR	12.500	54.17000	Upper middle income

In [19]: **df**

Out[19]:

	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

```
df.head(2)
In [20]:
Out[20]:
             CountryName CountryCode
                                         BirthRate InternetUsers
                                                                  IncomeGroup
          0
                     Aruba
                                   ABW
                                            10.244
                                                             78.9
                                                                    High income
               Afghanistan
                                    AFG
                                            35.253
                                                              5.9
                                                                    Low income
In [21]:
          df.describe()
Out[21]:
                  BirthRate InternetUsers
          count 195.000000
                               195.000000
          mean
                  21.469928
                                42.076471
            std
                  10.605467
                                29.030788
            min
                   7.900000
                                 0.900000
           25%
                  12.120500
                                14.520000
           50%
                  19.680000
                                41.000000
           75%
                  29.759500
                                66.225000
                  49.661000
                                96.546800
           max
In [22]:
         df.head(1)
Out[22]:
             CountryName CountryCode BirthRate InternetUsers IncomeGroup
          0
                     Aruba
                                   ABW
                                            10.244
                                                             78.9
                                                                    High income
In [23]:
         df['CountryName']
Out[23]: 0
                                 Aruba
          1
                           Afghanistan
          2
                                Angola
          3
                               Albania
          4
                 United Arab Emirates
          190
                           Yemen, Rep.
          191
                          South Africa
          192
                     Congo, Dem. Rep.
          193
                                Zambia
          194
                              Zimbabwe
          Name: CountryName, Length: 195, dtype: object
In [24]: df['CountryCode']
```

```
Out[24]: 0
                ABW
          1
                AFG
          2
                AG0
          3
                ALB
          4
                 ARE
          190
                 YEM
          191
                 ZAF
          192
                 COD
          193
                 ZMB
          194
                 ZWE
          Name: CountryCode, Length: 195, dtype: object
```

In [25]: df[['CountryName','CountryCode','IncomeGroup']]

Out	[25]	

	CountryName	CountryCode	IncomeGroup
0	Aruba	ABW	High income
1	Afghanistan	AFG	Low income
2	Angola	AGO	Upper middle income
3	Albania	ALB	Upper middle income
4	United Arab Emirates	ARE	High income
•••			
190	Yemen, Rep.	YEM	Lower middle income
191	South Africa	ZAF	Upper middle income
192	Congo, Dem. Rep.	COD	Low income
193	Zambia	ZMB	Lower middle income
194	Zimbabwe	ZWE	Low income

195 rows × 3 columns

```
In [26]: df_cat = df[['CountryName','CountryCode','IncomeGroup']]
    df_cat
```

ut[26]:		CountryName	CountryCode	Incom	eGroup
	0	Aruba	ABW	High	income
	1	Afghanistan	AFG	Low	income
;	2	Angola	AGO	Upper middle	income
į	3	Albania	ALB	Upper middle	income
	4 (United Arab Emirates	ARE	High	income
•	•				
190	0	Yemen, Rep.	YEM	Lower middle	income
19	1	South Africa	ZAF	Upper middle	income
192	2	Congo, Dem. Rep.	COD	Low	income
193	3	Zambia	ZMB	Lower middle	income
194	4	Zimbabwe	ZWE	Low	income
pri 5 3	Int(<pre>(len(df.columns)) (len(df_cat.column ((df.columns))</pre>	s))		
	d	'CountryName', 'Co 'IncomeGroup'], type='object')	ountryCode',	'BirthRate',	'Interr
[29]: df_	_cat	describe()			
[29]:		CountryName C	ountryCode li	ncomeGroup	
co	oun	t 195	195	195	
uni	iqu	e 195	195	4	
	top	A ruba	ABW	High income	
	fred	1	1	67	

Out[30]:		BirthRate	InternetUsers
	0	10.244	78.9
	1	35.253	5.9
	2	45.985	19.1
	3	12.877	57.2
	4	11.044	88.0
	•••		
	190	32.947	20.0
	191	20.850	46.5
	192	42.394	2.2
	193	40.471	15.4
	194	35.715	18.5
	195 rd	ows × 2 colu	umns

```
In [31]: df.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
1	CountryCode	195 non-null	object
2	BirthRate	195 non-null	float64
3	InternetUsers	195 non-null	float64
4	IncomeGroup	195 non-null	object

dtypes: float64(2), object(3)

memory usage: 7.7+ KB

```
In [32]: df_cat.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 195 entries, 0 to 194
Data columns (total 3 columns):

```
# Column Non-Null Count Dtype

O CountryName 195 non-null object
CountryCode 195 non-null object
IncomeGroup 195 non-null object
```

dtypes: object(3)
memory usage: 4.7+ KB

```
In [33]: df_num.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 195 entries, 0 to 194
Data columns (total 2 columns):
# Column Non-Null Count Dtype
```

0 BirthRate 195 non-null float64 1 InternetUsers 195 non-null float64

dtypes: float64(2)
memory usage: 3.2 KB

In [34]: df.describe()

_		- 4	-
() -	- 1	27	
υu		\rightarrow	

	BirthRate	InternetUsers
count	195.000000	195.000000
mean	21.469928	42.076471
std	10.605467	29.030788
min	7.900000	0.900000
25%	12.120500	14.520000
50%	19.680000	41.000000
75%	29.759500	66.225000
max	49.661000	96.546800

In [35]: df.describe().transpose()

Out[35]:

	count	mean	std	min	25%	50%	75%	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 [36]: df.describe().T

Out[36]:

	count	mean	std	min	25%	50%	75%	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 [37]: df.columns
```

```
In [38]: df.columns = ['a','b','c','d','e']
```

In [39]: df.head(1)

```
Out[39]:
          0 Aruba ABW 10.244 78.9 High income
In [40]: | df.columns = ['CountryName', 'CountryCode', 'BirthRate', 'InternetUsers', 'IncomeGro
          df.head(1)
Out[40]:
             CountryName CountryCode BirthRate InternetUsers IncomeGroup
          0
                    Aruba
                                   ABW
                                            10.244
                                                            78.9
                                                                   High income
In [41]: df[['CountryCode', 'BirthRate', 'InternetUsers']][4:8] #subset
Out[41]:
             CountryCode BirthRate InternetUsers
          4
                     ARE
                              11.044
                                              0.88
          5
                     ARG
                              17.716
                                              59.9
          6
                     ARM
                             13.308
                                              41.9
          7
                     ATG
                              16.447
                                              63.4
In [42]: df[4:8][['CountryCode','BirthRate','InternetUsers']]
Out[42]:
             CountryCode BirthRate InternetUsers
          4
                     ARE
                              11.044
                                             0.88
          5
                     ARG
                                              59.9
                             17.716
          6
                     ARM
                             13.308
                                             41.9
          7
                     ATG
                              16.447
                                              63.4
In [43]: df.columns
Out[43]: Index(['CountryName', 'CountryCode', 'BirthRate', 'InternetUsers',
                  'IncomeGroup'],
                dtype='object')
         df.BirthRate* df.InternetUsers
In [44]:
Out[44]:
                 808.2516
                 207.9927
          1
          2
                 878.3135
          3
                 736.5644
                 971.8720
          4
          190
                 658.9400
          191
                 969.5250
          192
                 93.2668
                 623.2534
          193
          194
                 660.7275
          Length: 195, dtype: float64
In [45]: df.head(2)
```

Out[45]:		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup	_
	0	Aruba	ABW	10.244	78.9	High income	
	1	Afghanistan	AFG	35.253	5.9	Low income	
T. [46].	J C E	1	المراجعة المراجعة	- * 10 ++			
In [46]:	атլ	newcolumn	= df.BirthRate	e * df.Int	ernetusers		
[n [47]:	df.	head(5)					
Out[47]:		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup	newcolumn
	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 [48]:	len	(df.columns)					
ut[48]:	6						
n [49]:	df	= df.drop('ne	wcolumn',axis	= 1)			
[n [50]:	df.	head(1)					
Out[50]:		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup	
	0	Aruba	ABW	10.244	78.9	High income	
n [51]:	df						

ut[51]:		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 rov	vs × 5 columns				
[52]:	df.Int	ernetUsers<2				
rt[52]:	0 1 2 3 4 190 191 192 193 194	False InternetUsers, L				

In [53]: df[df.InternetUsers<2]</pre>

Out[53]:		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
	11	Burundi	BDI	44.151	1.3	Low income
	52	Eritrea	ERI	34.800	0.9	Low income
	55	Ethiopia	ETH	32.925	1.9	Low income
	64	Guinea	GIN	37.337	1.6	Low income
	117	Myanmar	MMR	18.119	1.6	Lower middle income
	127	Niger	NER	49.661	1.7	Low income
	154	Sierra Leone	SLE	36.729	1.7	Low income
	156	Somalia	SOM	43.891	1.5	Low income
	172	Timor-Leste	TLS	35.755	1.1	Lower middle income
n [54]:	len(c	df[df.Internet	Users<2])			
rt[54]:	9					
[55]:	df.Bi	irthRate>40				
rt[55]:	0 1 2 3 4 190 191 192 193 194 Name	False False True False False False False True True False :	ength: 195, d	type: bool		
. [[6]				type. booi		
[56]:	atlat	BirthRate>40	1			

Out[56]:		CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
	2	Angola	AGO	45.985	19.1	Upper middle income
	11	Burundi	BDI	44.151	1.3	Low income
	14	Burkina Faso	BFA	40.551	9.1	Low income
	65	Gambia, The	GMB	42.525	14.0	Low income
	115	Mali	MLI	44.138	3.5	Low income
	127	Niger	NER	49.661	1.7	Low income
	128	Nigeria	NGA	40.045	38.0	Lower middle income
	156	Somalia	SOM	43.891	43.891 1.5	Low income
	167	Chad	TCD	45.745	2.3	Low income
	178	Uganda	UGA	43.474	16.2	Low income
	192	Congo, Dem. Rep.	COD	42.394	2.2	Low income
	193	Zambia	ZMB	40.471	15.4	Lower middle income

In [57]: Filter = df.InternetUsers < 2</pre>

In [58]: Filter2 = df.BirthRate >40

In [59]: df[Filter & Filter2]

Out[59]:

	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
1	1 Burundi	BDI	44.151	1.3	Low income
12	7 Niger	NER	49.661	1.7	Low income
15	6 Somalia	SOM	43.891	1.5	Low income

11th

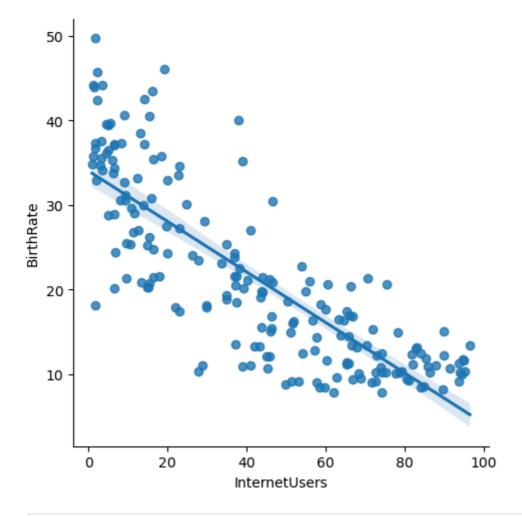
In [60]: df[df.IncomeGroup == 'Low income']

0.		$\Gamma \subset$	α 7	
UI	ut	10	01	

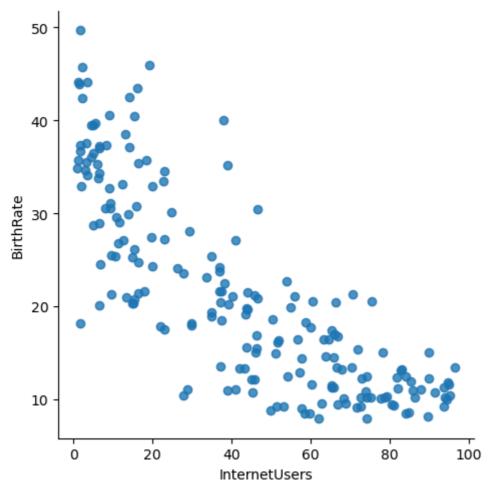
	CountryName	CountryCode	BirthRate	InternetUsers	IncomeGroup
1	Afghanistan	AFG	35.253	5.90	Low income
11	Burundi	BDI	44.151	1.30	Low income
13	Benin	BEN	36.440	4.90	Low income
14	Burkina Faso	BFA	40.551	9.10	Low income
29	Central African Republic	CAF	34.076	3.50	Low income
38	Comoros	СОМ	34.326	6.50	Low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

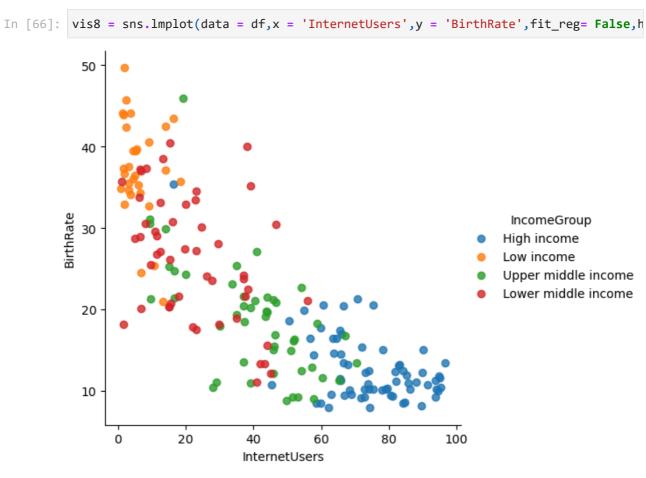
In [61]: df.IncomeGroup.unique()

```
Out[61]: array(['High income', 'Low income', 'Upper middle income',
                 'Lower middle income'], dtype=object)
In [62]: df.IncomeGroup.nunique()
Out[62]: 4
In [63]: import matplotlib.pyplot as plt #visualization
         import seaborn as sns #start visualization, advanced visualization
         # seaborn are used for advance visualization e.x--> distribution plot, line plot
         %matplotlib inline # plot the graph in the line
         plt.rcParams['figure.figsize'] = 6,2 #rcparm param comes from plt library wher f
         import warnings
         warnings.filterwarnings('ignore') # when ever os will update . ignore the os err
        UsageError: unrecognized arguments: # plot the graph in the line
 In [ ]:
         df.columns
 In [ ]: df['InternetUsers']
 In [ ]: vis1 = sns.displot(df["InternetUsers"])
 In [ ]: vis3 = sns.distplot(df["InternetUsers"],bins=15)
 In [ ]: vis2 = sns.distplot(df["InternetUsers"],bins=15)
 In [ ]:
         plt.rcParams['figure.figsize'] = 6,3
 In [ ]: vis4 = sns.boxplot(data = df, x="IncomeGroup", y='BirthRate')
In [64]: vis5 = sns.lmplot(data = df,x = 'InternetUsers', y = 'BirthRate')
```



In [65]: vis5 = sns.lmplot(data = df,x = 'InternetUsers',y = 'BirthRate',fit_reg=False)





In []:

In []:	
In []:	
In []:	