```python
import pandas as pd
```

```python
df=pd.read_csv(r"/content/data.csv")
```

```python
df
```

	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

Next steps: [Generate code with df]   [〇 View recommended plots]   [New interactive sheet]

```python
df.columns
```

```
Index(['CountryName', 'CountryCode', 'BirthRate', 'InternetUsers',
       'IncomeGroup'],
      dtype='object')
```

```python
df.IncomeGroup.unique() #income groups in country
```

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

```python
df.CountryName.unique() #list of coumtries used for analysis
```

```
array(['Aruba', 'Afghanistan', 'Angola', 'Albania',
       'United Arab Emirates', 'Argentina', 'Armenia',
       'Antigua and Barbuda', 'Australia', 'Austria', 'Azerbaijan',
       'Burundi', 'Belgium', 'Benin', 'Burkina Faso', 'Bangladesh',
       'Bulgaria', 'Bahrain', 'Bahamas, The', 'Bosnia and Herzegovina',
       'Belarus', 'Belize', 'Bermuda', 'Bolivia', 'Brazil', 'Barbados',
       'Brunei Darussalam', 'Bhutan', 'Botswana',
       'Central African Republic', 'Canada', 'Switzerland', 'Chile',
       'China', "Cote d'Ivoire", 'Cameroon', 'Congo, Rep.', 'Colombia',
       'Comoros', 'Cabo Verde', 'Costa Rica', 'Cuba', 'Cayman Islands',
       'Cyprus', 'Czech Republic', 'Germany', 'Djibouti', 'Denmark',
       'Dominican Republic', 'Algeria', 'Ecuador', 'Egypt, Arab Rep.',
       'Eritrea', 'Spain', 'Estonia', 'Ethiopia', 'Finland', 'Fiji',
       'France', 'Micronesia, Fed. Sts.', 'Gabon', 'United Kingdom',
       'Georgia', 'Ghana', 'Guinea', 'Gambia, The', 'Guinea-Bissau',
       'Equatorial Guinea', 'Greece', 'Grenada', 'Greenland', 'Guatemala',
       'Guam', 'Guyana', 'Hong Kong SAR, China', 'Honduras', 'Croatia',
       'Haiti', 'Hungary', 'Indonesia', 'India', 'Ireland',
       'Iran, Islamic Rep.', 'Iraq', 'Iceland', 'Israel', 'Italy',
       'Jamaica', 'Jordan', 'Japan', 'Kazakhstan', 'Kenya',
       'Kyrgyz Republic', 'Cambodia', 'Kiribati', 'Korea, Rep.', 'Kuwait',
       'Lao PDR', 'Lebanon', 'Liberia', 'Libya', 'St. Lucia',
       'Liechtenstein', 'Sri Lanka', 'Lesotho', 'Lithuania', 'Luxembourg',
       'Latvia', 'Macao SAR, China', 'Morocco', 'Moldova', 'Madagascar',
       'Maldives', 'Mexico', 'Macedonia, FYR', 'Mali', 'Malta', 'Myanmar',
       'Montenegro', 'Mongolia', 'Mozambique', 'Mauritania', 'Mauritius',
       'Malawi', 'Malaysia', 'Namibia', 'New Caledonia', 'Niger',
       'Nigeria', 'Nicaragua', 'Netherlands', 'Norway', 'Nepal',
       'New Zealand', 'Oman', 'Pakistan', 'Panama', 'Peru', 'Philippines',
       'Papua New Guinea', 'Poland', 'Puerto Rico', 'Portugal',
       'Paraguay', 'French Polynesia', 'Qatar', 'Romania',
       'Russian Federation', 'Rwanda', 'Saudi Arabia', 'Sudan', 'Senegal',
       'Singapore', 'Solomon Islands', 'Sierra Leone', 'El Salvador',
       'Somalia', 'Serbia', 'South Sudan', 'Sao Tome and Principe',
       'Suriname', 'Slovak Republic', 'Slovenia', 'Sweden', 'Swaziland',
       'Seychelles', 'Syrian Arab Republic', 'Chad', 'Togo', 'Thailand',
       'Tajikistan', 'Turkmenistan', 'Timor-Leste', 'Tonga',
```

```
        'Trinidad and Tobago', 'Tunisia', 'Turkey', 'Tanzania', 'Uganda',
        'Ukraine', 'Uruguay', 'United States', 'Uzbekistan',
        'St. Vincent and the Grenadines', 'Venezuela, RB',
        'Virgin Islands (U.S.)', 'Vietnam', 'Vanuatu',
        'West Bank and Gaza', 'Samoa', 'Yemen, Rep.', 'South Africa',
        'Congo, Dem. Rep.', 'Zambia', 'Zimbabwe'], dtype=object)
```

```python
df.CountryName.nunique() #number of countries used for analysis
```

    195

```python
import seaborn as sns
```

```python
vis1=sns.distplot(df['InternetUsers'])
```

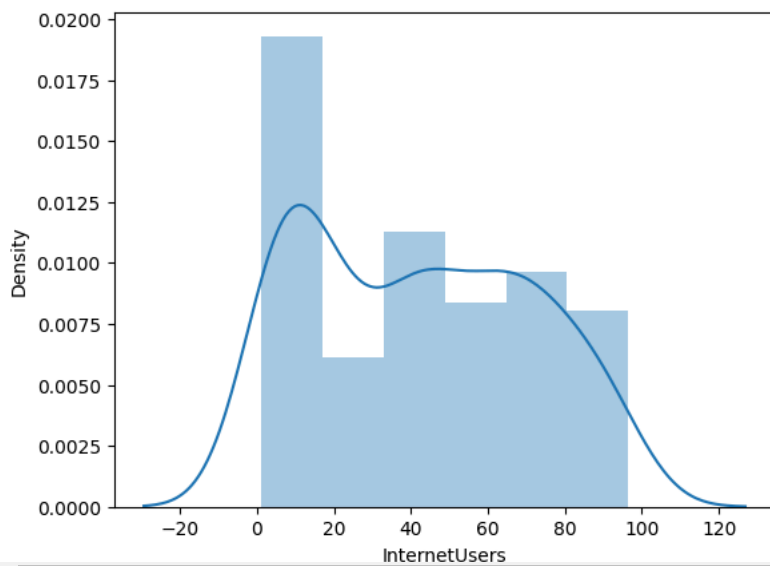   <ipython-input-9-c3adbe582185>:1: UserWarning:

    `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).

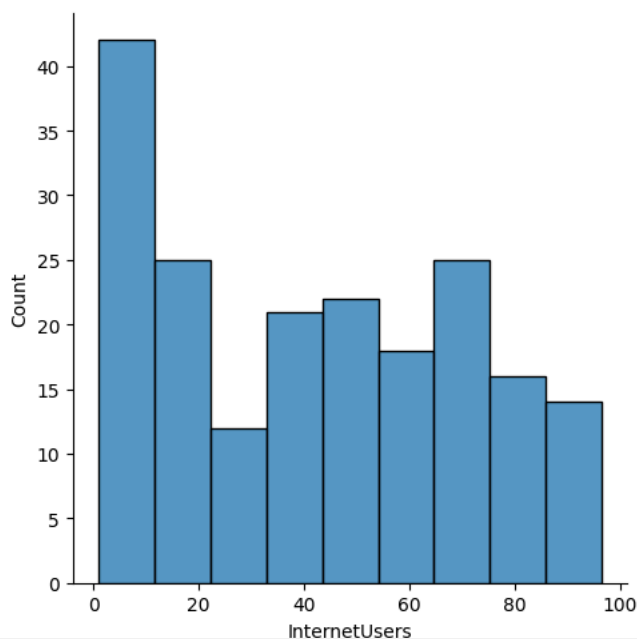   For a guide to updating your code to use the new functions, please see
    https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
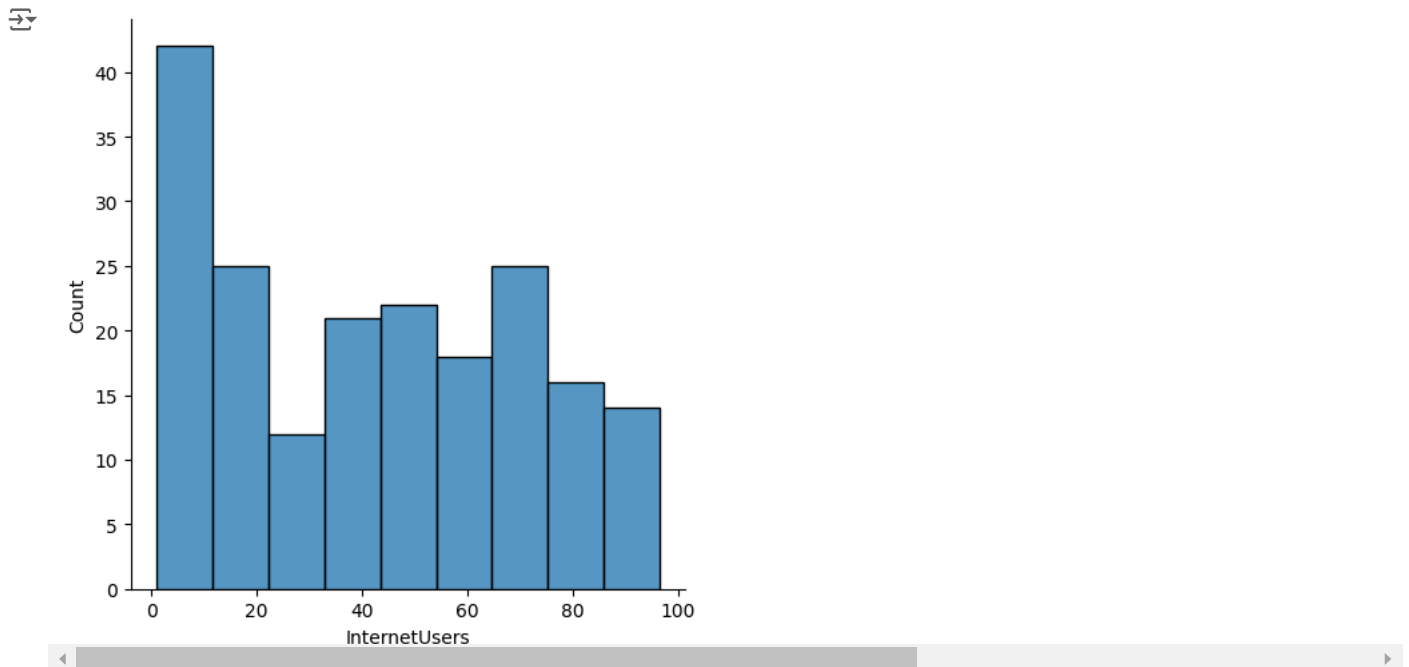

vis1=sns.distplot(df['InternetUsers'])

```python
vis2=sns.displot(df['InternetUsers'])
```
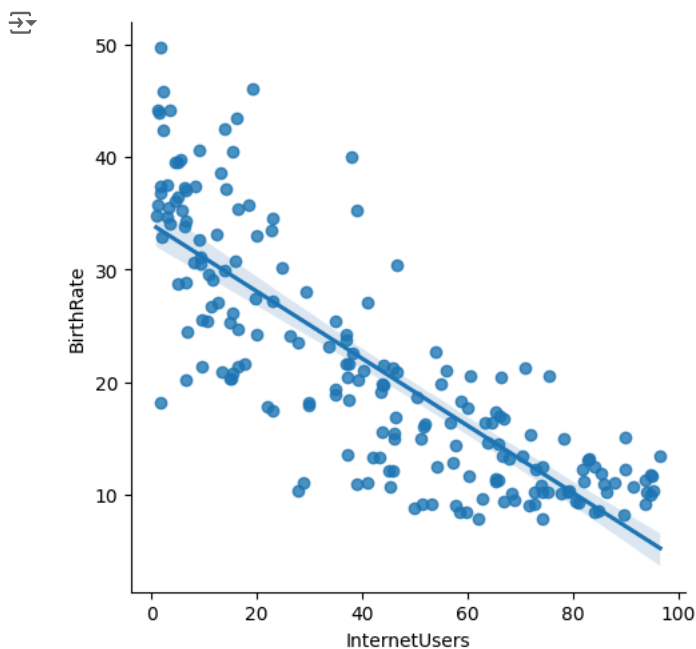


```python
vis3=sns.displot(df['InternetUsers'],kde=False)
```

```
vis4=sns.lmplot(data=df,x='InternetUsers',y='BirthRate')
```



```
vis5=sns.lmplot(data=df,x='InternetUsers',y='BirthRate',hue='IncomeGroup',fit_reg=False)
```