

In [2]: `import pandas as pd`

In [5]: `lifeData = pd.read_csv("Datasets/lifeExpectancyAtBirth.csv")`

In [7]: `lifeData`

Out[7]:

	Location	Period	Indicator	Dim1	First Tooltip
0	Afghanistan	2019	Life expectancy at birth (years)	Both sexes	63.21
1	Afghanistan	2019	Life expectancy at birth (years)	Male	63.29
2	Afghanistan	2019	Life expectancy at birth (years)	Female	63.16
3	Afghanistan	2015	Life expectancy at birth (years)	Both sexes	61.65
4	Afghanistan	2015	Life expectancy at birth (years)	Male	61.04
...
2192	Zimbabwe	2010	Life expectancy at birth (years)	Male	49.58
2193	Zimbabwe	2010	Life expectancy at birth (years)	Female	53.21
2194	Zimbabwe	2000	Life expectancy at birth (years)	Both sexes	46.57
2195	Zimbabwe	2000	Life expectancy at birth (years)	Male	45.15
2196	Zimbabwe	2000	Life expectancy at birth (years)	Female	48.12

2197 rows × 5 columns

In [8]: `lifeData.head()`

Out[8]:

	Location	Period	Indicator	Dim1	First Tooltip
0	Afghanistan	2019	Life expectancy at birth (years)	Both sexes	63.21
1	Afghanistan	2019	Life expectancy at birth (years)	Male	63.29
2	Afghanistan	2019	Life expectancy at birth (years)	Female	63.16
3	Afghanistan	2015	Life expectancy at birth (years)	Both sexes	61.65
4	Afghanistan	2015	Life expectancy at birth (years)	Male	61.04

In [16]: `yearFilter = lifeData['Period'] == 2019
sexFilter = lifeData['Dim1'] == "Both sexes"
lifeData[yearFilter & sexFilter].head()`

Out[16]:

	Location	Period	Indicator	Dim1	First Tooltip
0	Afghanistan	2019	Life expectancy at birth (years)	Both sexes	63.21
12	Albania	2019	Life expectancy at birth (years)	Both sexes	78.00
24	Algeria	2019	Life expectancy at birth (years)	Both sexes	77.13
36	Angola	2019	Life expectancy at birth (years)	Both sexes	63.06
48	Antigua and Barbuda	2019	Life expectancy at birth (years)	Both sexes	76.45

In [17]: `lifeData['Location']`

Out[17]:

0 Afghanistan
1 Afghanistan
2 Afghanistan
3 Afghanistan
4 Afghanistan
...
2192 Zimbabwe
2193 Zimbabwe
2194 Zimbabwe
2195 Zimbabwe
2196 Zimbabwe
Name: Location, Length: 2197, dtype: object

In [18]: `lifeData['Location'].unique()`

Out[18]:

array(['Afghanistan', 'Albania', 'Algeria', 'Angola', 'Antigua and Barbuda', 'Argentina', 'Armenia', 'Australia', 'Austria', 'Azerbaijan', 'Bahamas', 'Bahrain', 'Bangladesh', 'Barbados', 'Belarus', 'Belgium', 'Belize', 'Benin', 'Bhutan', 'Bolivia (Plurinational State of)', 'Bosnia and Herzegovina', 'Botswana', 'Brazil', 'Brunei Darussalam', 'Bulgaria', 'Burkina Faso', 'Burundi', 'Cabo Verde', 'Cambodia', 'Cameroon', 'Canada', 'Central African Republic', 'Chad', 'Chile', 'China', 'Colombia', 'Comoros', 'Congo', 'Costa Rica', 'Côte d'Ivoire', 'Croatia', 'Cuba', 'Cyprus', 'Czechia', 'Democratic People's Republic of Korea', 'Democratic Republic of the Congo', 'Denmark', 'Djibouti', 'Dominican Republic', 'Ecuador', 'Egypt', 'El Salvador', 'Equatorial Guinea', 'Eritrea', 'Estonia', 'Eswatini', 'Ethiopia', 'Fiji', 'Finland', 'France', 'Gabon', 'Gambia', 'Georgia', 'Germany', 'Ghana', 'Greece', 'Grenada', 'Guatemala', 'Guinea', 'Guinea-Bissau', 'Guyana', 'Haiti', 'Honduras', 'Hungary', 'Iceland', 'India', 'Indonesia', 'Iran (Islamic Republic of)', 'Iraq', 'Ireland', 'Israel', 'Italy', 'Jamaica', 'Japan', 'Jordan', 'Kazakhstan', 'Kenya', 'Kiribati', 'Kuwait', 'Kyrgyzstan', 'Lao People's Democratic Republic', 'Latvia', 'Lebanon', 'Lesotho', 'Liberia', 'Libya', 'Lithuania', 'Luxembourg', 'Madagascar', 'Malawi', 'Malaysia', 'Maldives', 'Mali', 'Malta', 'Mauritania', 'Mauritius', 'Mexico', 'Micronesia (Federated States of)', 'Mongolia', 'Montenegro', 'Morocco', 'Mozambique', 'Myanmar', 'Namibia', 'Nepal', 'Netherlands', 'New Zealand', 'Nicaragua', 'Niger', 'Nigeria', 'Norway', 'Oman', 'Pakistan', 'Panama', 'Papua New Guinea', 'Paraguay', 'Peru', 'Philippines', 'Poland', 'Portugal', 'Qatar', 'Republic of Korea', 'Republic of Moldova', 'The former Yugoslav Republic of Macedonia', 'Romania', 'Russian Federation', 'Rwanda', 'Saint Lucia', 'Saint Vincent and the Grenadines', 'Samoa', 'Sao Tome and Principe', 'Saudi Arabia', 'Senegal', 'Serbia', 'Seychelles', 'Sierra Leone', 'Singapore', 'Slovakia', 'Slovenia', 'Solomon Islands', 'Somalia', 'South Africa', 'South Sudan', 'Spain', 'Sri Lanka', 'Sudan', 'Sudan (until 2011)', 'Suriname', 'Sweden', 'Switzerland', 'Syrian Arab Republic', 'Tajikistan', 'Thailand', 'Timor-Leste', 'Togo', 'Tonga', 'Trinidad and Tobago', 'Tunisia', 'Turkey', 'Turkmenistan', 'Uganda', 'Ukraine', 'United Arab Emirates', 'United Kingdom of Great Britain and Northern Ireland', 'United Republic of Tanzania', 'United States of America', 'Uruguay', 'Uzbekistan', 'Vanuatu', 'Venezuela (Bolivarian Republic of)', 'Viet Nam', 'Yemen', 'Zambia', 'Zimbabwe'], dtype=object)

In [19]: `lifeData['Dim1'].unique()`

Out[19]: `array(['Both sexes', 'Male', 'Female'], dtype=object)`

In [20]: `lifeData['Dim1'].value_counts()`

Out[20]:

Both sexes 733
Male 732
Female 732
Name: Dim1, dtype: int64

In [21]: `lifeData['Dim1'].value_counts(dropna=False).plot(kind='bar')`



In []: