```
In [42]:
           import pandas as pd
           pd.set_option('display.max.rows', 10)
          df = pd.read_csv(r"C:\Users\kallzz\Desktop\Data Analytics Stuff\Data Analyst - Boot
In [43]:
In [44]:
Out[44]:
                      Country
                                            Region
             0
                    Afghanistan
                                 ASIA (EX. NEAR EAST)
             1
                       Albania
                                    EASTERN EUROPE
             2
                       Algeria
                                  NORTHERN AFRICA
                American Samoa
                                          OCEANIA
                                   WESTERN EUROPE
             4
                       Andorra
          222
                     West Bank
                                         NEAR EAST
          223
                 Western Sahara
                                  NORTHERN AFRICA
          224
                                         NEAR EAST
                        Yemen
          225
                       Zambia
                              SUB-SAHARAN AFRICA
          226
                     Zimbabwe SUB-SAHARAN AFRICA
         227 rows × 2 columns
          # read_csv can be used to read text files but not in a proper way
In [45]:
          df = pd.read_csv(r"C:\Users\kallzz\Desktop\Data Analytics Stuff\Data Analyst - Boot
In [46]:
Out[46]:
                                 Country\tRegion
             0
                   Afghanistan \tASIA (EX. NEAR EAST)
             1
                         Albania \tEASTERN EUROPE
             2
                        Algeria \tNORTHERN AFRICA
             3
                       American Samoa \tOCEANIA ...
             4
                        Andorra \tWESTERN EUROPE
          222
                            West Bank \tNEAR EAST
                Western Sahara \tNORTHERN AFRICA ...
          223
          224
                               Yemen \tNEAR EAST
          225
                     Zambia \tSUB-SAHARAN AFRICA
          226
                  Zimbabwe \tSUB-SAHARAN AFRICA
         227 rows × 1 columns
```

```
In [47]: # there is \t delimeter in text file

df = pd.read_csv(r"C:\Users\kallzz\Desktop\Data Analytics Stuff\Data Analyst - Boot
df
```

Out[47]:		Country	Region			
	0	Afghanistan	ASIA (EX. NEAR EAST)			
	1	Albania	EASTERN EUROPE			
	2	Algeria	NORTHERN AFRICA			
	3	American Samoa	OCEANIA			
	4	Andorra	WESTERN EUROPE			
	•••					
	222	West Bank	NEAR EAST			
	223	Western Sahara	NORTHERN AFRICA			
	224	Yemen	NEAR EAST			
	225	Zambia	SUB-SAHARAN AFRICA			
	226	Zimbabwe	SUB-SAHARAN AFRICA			
	227 r	227 rows × 2 columns				

227 rows × 2 columns

In [48]:	df =	pd.read_table(r"C:\Users\kallzz\Desktop\Data A	Analytics	Stuff\Data	Analyst	- Bc
	df					

Out[48]:		Country	Region
	0	Afghanistan	ASIA (EX. NEAR EAST)
	1	Albania	EASTERN EUROPE
	2	Algeria	NORTHERN AFRICA
	3	American Samoa	OCEANIA
	4	Andorra	WESTERN EUROPE
	•••		
	222	West Bank	NEAR EAST
	223	Western Sahara	NORTHERN AFRICA
	224	Yemen	NEAR EAST
	225	Zambia	SUB-SAHARAN AFRICA
	226	Zimbabwe	SUB-SAHARAN AFRICA

227 rows × 2 columns

```
In [49]: # read_table can be used to read data from different types of file format but we ne
    df = pd.read_table(r"C:\Users\kallzz\Desktop\Data Analytics Stuff\Data Analyst - Bc
    df
```

df

```
Out[49]:
                                       [
              0
                           "12 Strong": {
                       "Genre": "Action",
              2
              3
                     "Gross": "$453,173",
                 "IMDB Metascore": "54",
            236
                        "Rating": "PG13",
            237
                      "Tomato Score": 12
            238
                                       }
            239
            240
                                       ]
           241 rows × 1 columns
           df = pd.read_json(r"C:\Users\kallzz\Desktop\Data Analytics Stuff\Data Analyst - Boc
In [50]:
            df
Out[50]:
                              A Fantastic
                            Woman (Una
                                                               Bilal: A New
                                                                                 Call Me By
                                           All The Money
                                                                                                                С
               12 Strong
                                                                                               Darkest Hour
                                   Mujer
                                             In The World
                                                            Breed Of Hero
                                                                                Your Name
                                                                                                                т
                               Fantástica)
                 {'Genre':
                                                                                                                {'(
                                                            {'popcornscore':
                                                                                             {'popcornscore':
                 'Action', {'popcornscore': {'popcornscore':
                                                                            {'popcornscore':
                                                                                                                'Δ
                                                                91, 'rating':
                                                                                                  84, 'rating':
                            83, 'rating': 'R',
                                                                              87, 'rating': 'R',
                  'Gross':
                                            71, 'rating': 'R',
                                                                                                     'PG13',
                                                                    'PG13',
                             'tomatosco...
                                              'tomatosco...
                                                                                'tomatosco...
                                                                                                              '$49
               '$453,173',
                                                                  'tomato...
                                                                                                   'tomato...
                  'IMDB...
                                                                                                                 Ί.
           # to view entire row and column data in pandas
In [51]:
            # pd.set_option('display.max.rows', 260)
            # pd.set_option('display.max.columns', 50)
           # read_excel by defaults reads the first sheet data
In [52]:
```

df = pd.read_excel(r"C:\Users\kallzz\Desktop\Data Analytics Stuff\Data Analyst - Bc

Out[52]

		Rank	CCA3	Country	Capital
	0	36	AFG	Afghanistan	Kabul
	1	138	ALB	Albania	Tirana
	2	34	DZA	Algeria	Algiers
	3	213	ASM	American Samoa	Pago Pago
	4	203	AND	Andorra	Andorra la Vella
	•••				
	229	226	WLF	Wallis and Futuna	Mata-Utu
	230	172	ESH	Western Sahara	El Aaiún
	231	46	YEM	Yemen	Sanaa
	232	63	ZMB	Zambia	Lusaka
	233	74	ZWE	Zimbabwe	Harare

234 rows × 4 columns

```
In [53]:
        df.info()
```

Provides information about non-null data and datatype and memory size

<class 'pandas.core.frame.DataFrame'> RangeIndex: 234 entries, 0 to 233 Data columns (total 4 columns): # Column Non-Null Count Dtype 0 Rank 234 non-null int64 1 CCA3 234 non-null object Country 234 non-null object Capital 234 non-null object Capital 234 non-null

dtypes: int64(1), object(3) memory usage: 7.4+ KB

In [54]: df.head()

Out[54]:

	Rank	CCA3	Country	Capital
0	36	AFG	Afghanistan	Kabul
1	138	ALB	Albania	Tirana
2	34	DZA	Algeria	Algiers
3	213	ASM	American Samoa	Pago Pago
4	203	AND	Andorra	Andorra la Vella

In [55]: df.head(10)

```
Rank CCA3
Out[55]:
                                      Country
                                                      Capital
           0
                     AFG
                                                       Kabul
                36
                                   Afghanistan
           1
               138
                      ALB
                                       Albania
                                                       Tirana
           2
                34
                     DZA
                                       Algeria
                                                      Algiers
           3
               213
                     ASM
                               American Samoa
                                                   Pago Pago
           4
               203
                     AND
                                               Andorra la Vella
                                      Andorra
           5
                42
                     AGO
                                       Angola
                                                      Luanda
           6
               224
                      AIA
                                                    The Valley
                                      Anguilla
                                               Saint John's
               201
                      ATG
                           Antigua and Barbuda
           8
                33
                     ARG
                                    Argentina
                                                 Buenos Aires
               140
                     ARM
                                      Armenia
                                                      Yerevan
           df.tail()
In [56]:
Out[56]:
                Rank CCA3
                                     Country
                                                Capital
           229
                 226
                        WLF
                             Wallis and Futuna
                                              Mata-Utu
           230
                 172
                        ESH
                               Western Sahara
                                              El AaiÃon
           231
                  46
                       YEM
                                      Yemen
                                                 Sanaa
           232
                  63
                       ZMB
                                                 Lusaka
                                      Zambia
           233
                  74
                       ZWE
                                   Zimbabwe
                                                 Harare
           # to view a specific column data
In [57]:
           df['Rank']
                    36
Out[57]:
                   138
                    34
           2
           3
                   213
           4
                   203
           229
                   226
           230
                   172
           231
                    46
           232
                    63
           233
                    74
           Name: Rank, Length: 234, dtype: int64
           df.columns
In [58]:
           Index(['Rank', 'CCA3', 'Country', 'Capital'], dtype='object')
Out[58]:
           df2 = df[['Rank', 'CCA3']]
In [59]:
           df2
```

Out[59]:		Rank	CCA3
	0	36	AFG
	1	138	ALB
	2	34	DZA
	3	213	ASM
	4	203	AND
	•••		
	229	226	WLF
	230	172	ESH
	231	46	YEM
	232	63	ZMB
	233	74	ZWE

234 rows × 2 columns

```
In [60]:
         # to view data based on index
         df.loc[224]
         Rank
                             43
Out[60]:
         CCA3
                           UZB
         Country
                    Uzbekistan
         Capital
                      Tashkent
         Name: 224, dtype: object
In [61]: # iloc is used to fetch the data based on integer based index(original index) even
         df.iloc[224]
                            43
         Rank
Out[61]:
         CCA3
                            UZB
         Country
                    Uzbekistan
         Capital
                      Tashkent
         Name: 224, dtype: object
In [ ]:
 In [ ]:
```