```
In [1]: import pandas as pd
In [2]: #READING THE csv FILES, CHANGING THEIR IDS TO DESIRED COLUMN#

    df = pd.read_csv('data/survey_results_public.csv', index_col='ResponseId')
    schema_df = pd.read_csv('data/survey_results_schema.csv', index_col='qname')

In [29]: #SETTING ALL COLUMNS VISIBLE#
    pd.set_option('display.max_columns', 79)
    pd.set_option('display.max_rows', 79)

In [4]: #df JUST SHOW THE COMPLETE DATAFRAME, FIRST 5 ROWS AND LAST 5 ROWS BY DEFAULT#
    df
```

Out[4]:

	MainBranch	Employment	RemoteWork	CodingActivities	EdLevel	LearnCode	
Responseld							
1	None of these	NaN	NaN	NaN	NaN	NaN	
2	l am a developer by profession	Employed, full-time	Fully remote	Hobby;Contribute to open-source projects	NaN	NaN	
3	I am not primarily a developer, but I write co	Employed, full-time	Hybrid (some remote, some in-person)	Hobby	Master's degree (M.A., M.S., M.Eng., MBA, etc.)	Books / Physical media;Friend or family member	d
4	l am a developer by profession	Employed, full-time	Fully remote	I don't code outside of work	Bachelor's degree (B.A., B.S., B.Eng., etc.)	Books / Physical media;School (i.e., Universit	
5	l am a developer by profession	Employed, full-time	Hybrid (some remote, some in-person)	Hobby	Bachelor's degree (B.A., B.S., B.Eng., etc.)	Other online resources (e.g., videos, blogs, f	
•••							
73264	l am a developer by profession	Employed, full-time	Fully remote	Freelance/contract work	Bachelor's degree (B.A., B.S., B.Eng., etc.)	Books / Physical media;Other online resources	
73265	l am a developer by profession	Employed, full-time	Full in-person	Hobby	Master's degree (M.A., M.S., M.Eng., MBA, etc.)	Other online resources (e.g., videos, blogs, f	
73266	I am not primarily a developer, but I write co	Employed, full-time	Hybrid (some remote, some in-person)	Hobby;School or academic work	Bachelor's degree (B.A., B.S., B.Eng., etc.)	Books / Physical media;Other online resources	
73267	l am a developer by profession	Employed, full-time	Hybrid (some remote, some in-person)	Hobby	Bachelor's degree (B.A., B.S., B.Eng., etc.)	Books / Physical media;On the job training	
73268	I used to be a developer by profession, but no	Independent contractor, freelancer, or self-em	Fully remote	Hobby;Contribute to open-source projects;Boots	Bachelor's degree (B.A., B.S., B.Eng., etc.)	Books / Physical media;Friend or family member	d

73268 rows × 78 columns

```
In [5]: #FUNCTION TO FIND HOW MANY DEVELOPERS PER LANGUAGE IN BRAZIL#
         #You can search by calling the function and putting the desired language in second
         #You may also change the country by changing the cntry variable
         cntry = 'Brazil'
         def qtdePorLing(country, ling):
             num = df.loc[df['Country']==country]['LanguageHaveWorkedWith'].str.contains(lir
             if len(ling) > 5: #simple conditional just to print a better table#
                 print(ling,':\t',num)
             else:
                 print(ling,':\t\t',num)
         qtdePorLing(cntry,'Java')
         qtdePorLing(cntry,'Python')
         qtdePorLing(cntry,'JavaScript')
         qtdePorLing(cntry,'HTML')
         qtdePorLing(cntry,'C#')
         qtdePorLing(cntry, 'C')
         qtdePorLing(cntry, 'CSS')
         qtdePorLing(cntry,'Shell')
                          1566
        Java :
        Python:
                          873
        JavaScript :
                          1394
        HTML :
                          1102
        C# :
                          462
        C :
                          1483
        CSS:
                          1102
        Shell:
                          583
In [6]: #TOP 10 COUNTRIES WITH MOST RESPONSES IN THE SURVEY, CONSEQUENTLY COUNTRIES WITH MC
         df['Country'].value_counts().head(10)
        United States of America
                                                                 13543
Out[6]:
        India
                                                                  6639
        Germany
                                                                  5395
        United Kingdom of Great Britain and Northern Ireland
                                                                  4190
        Canada
                                                                  2490
        France
                                                                  2328
        Brazil
                                                                  2109
        Poland
                                                                  1732
        Netherlands
                                                                  1555
        Spain
                                                                  1521
        Name: Country, dtype: int64
        #CREATING A GROUPBY (by countries) TO ENHANCE THE SEARCH FOR DATA AND VALUES#
In [7]:
         country_grp = df.groupby(['Country'])
In [8]: #THE 10 MOST COMMON SALARIES OF BRAZILIAN DEVELOPERS IN USD PER YEAR#
         country_grp['CompTotal'].value_counts().loc['Brazil'].head(10)
```

```
{\tt CompTotal}
Out[8]:
          10000.0
                     60
          8000.0
                     47
         5000.0
                     46
          6000.0
                     42
          12000.0
                     42
         15000.0
                     38
         7000.0
                     37
         11000.0
                     29
         4000.0
                     27
          20000.0
                     26
         Name: CompTotal, dtype: int64
         df['Gender'].value_counts()
 In [9]:
         Man
Out[9]:
         64607
         Woman
         3399
         Prefer not to say
         1172
         Non-binary, genderqueer, or gender non-conforming
         Or, in your own words:
         Man; Non-binary, genderqueer, or gender non-conforming
         Man; Or, in your own words:
         171
         Woman; Non-binary, genderqueer, or gender non-conforming
         Man; Woman; Non-binary, genderqueer, or gender non-conforming
         Man; Woman
         24
         Man;Or, in your own words:;Woman;Non-binary, genderqueer, or gender non-conforming
         Or, in your own words:; Woman; Non-binary, genderqueer, or gender non-conforming
         15
         Or, in your own words:;Non-binary, genderqueer, or gender non-conforming
         14
         Or, in your own words:;Woman
         13
         Man; Or, in your own words:; Non-binary, genderqueer, or gender non-conforming
         Man;Or, in your own words:;Woman
         Name: Gender, dtype: int64
          country_grp['Gender'].value_counts().loc['Brazil'].head(5)
In [10]:
         Gender
Out[10]:
                                                                     1933
         Man
                                                                      106
         Woman
         Non-binary, genderqueer, or gender non-conforming
                                                                       17
                                                                       17
         Prefer not to say
         Man; Non-binary, genderqueer, or gender non-conforming
                                                                       12
         Name: Gender, dtype: int64
          comp_grp = df.groupby(['CompTotal'])
In [13]:
          #comp_grp['Country'].value_counts().loc[CompTotal>=70000]
                                                                        #df['CompTotal']>70000]
In [28]:
```

In [ ]: