In [ ]:

In [3]:
```
!pip3 install numpy
```

```
Requirement already satisfied: numpy in c:\users\asus\anaconda3\lib\site-packages
(1.26.4)
```

In [4]:
```
import pandas as pd
```

In [10]:
```
stack_df= pd.read_csv('survey_results_public.csv')
```

In [18]:
```
stack_df['ResponseId'].count()
```

Out[18]: 65437

1) Ankete Toplam 65437 kişi katıldı.

In [35]:
```
stack_df['ResponseId'].count()
```

Out[35]: 0

In [111…
```
stack_df.dropna(inplace=True)
```

In [112…
```
stack_df
```

Out[112…

ResponseId	MainBranch	Age	Employment	RemoteWork	Check	CodingActivities	E

0 rows × 114 columns

2) Toplam 0 kişi hepsini cevapladı

In [ ]:

In [113…
```
stack_df= pd.read_csv('survey_results_public.csv')
```

3) WorkExp ile ilgili Merkezi Eğilim Ölçüleri

In [121…
```
stack_df.dropna(subset ='WorkExp', inplace = True)
```

In [128…
```
print(stack_df['WorkExp'].mean())
print(stack_df['WorkExp'].median())
print(stack_df['WorkExp'].mode())
```

```
11.46695663901814
9.0
0    3.0
Name: WorkExp, dtype: float64
```

In [ ]:

In [193…
```
stack_df[(stack_df['RemoteWork']=='Remote')].count()
```

Out[193…
```
ResponseId             20831
MainBranch             20831
Age                    20831
Employment             20831
RemoteWork             20831
                       ...
JobSatPoints_11        11186
SurveyLength           18352
SurveyEase             18370
ConvertedCompYearly     9591
JobSat                 11103
Length: 114, dtype: int64
```

4)Toplam 20831 Remote olarak çalışmakta

In [ ]:

In [348…
```
stack_df= pd.read_csv('survey_results_public.csv')
```

In [350…
```
Total_responds=stack_df['LanguageHaveWorkedWith'].notna().sum()
Python_usernumbers=stack_df['LanguageHaveWorkedWith'].dropna().transform(lambda
```

In [351…
```
print(Total_responds)
print(Python_usernumbers)
print(Python_usernumbers/Total_responds* 100)
```

```
59745
30719
51.416854966942836
```

5)yüzde 51 python ile program yapıyor

In [ ]:

In [345…
```
stack_df= pd.read_csv('survey_results_public.csv')
```

In [346…
```
learncode= stack_df['LearnCode'].dropna()
Online_users= learncode.transform(lambda x: 'Online Courses or Certification' in
```

In [347…
```
Online_users
```

Out[347…
```
30271
```

6) toplam 30271 kişi online kurs ile programlama öğrendi

In [ ]:

In [ ]:

In [243…
```
stack_df= pd.read_csv('survey_results_public.csv')
```

In [244…
```
usernumbers_nona_df=stack_df[['Country','ConvertedCompYearly','LanguageHaveWorke
```

In [340…
```
Python_user_df = usernumbers_nona_df[usernumbers_nona_df['LanguageHaveWorkedWith
```

In [341…
```
group_country= Python_user_df.groupby('Country')['ConvertedCompYearly'].mean()
```

In [342…
```
group_country= Python_user_df.groupby('Country')['ConvertedCompYearly'].agg(['me
```

In [343…
```
group_country_sorted = group_country.sort_index(ascending=True)
```

In [344…
```
print(group_country_sorted.head(7))
```

```
                      mean    median
Country
Afghanistan     6057.000000    5940.0
Albania        56295.000000   56295.0
Algeria         9053.285714    6230.0
Andorra       193331.000000  193331.0
Angola             6.000000       6.0
Argentina      41243.333333   24000.0
Armenia        17329.666667    6450.0
```

7) Her ülke için ortalama ve medyan yıllık tazminat (ConvertedCompYearly)

In [ ]:
```
```

In [366…
```
stack_df= pd.read_csv('survey_results_public.csv')
```

In [387…
```
stack_df.dropna(subset=["CompTotal","EdLevel"], inplace=True)
```

In [388…
```
max_5 = stack_df.nlargest(5,'CompTotal')[['CompTotal', 'EdLevel']]
```

In [ ]:
```
max_5 = stack_df.nlargest(5, 'CompTotal')[['CompTotal', 'EdLevel']]
```

In [389…
```
max_5
```

Out[389…

	CompTotal	EdLevel
14354	1.000000e+150	Bachelor’s degree (B.A., B.S., B.Eng., etc.)
34278	1.000000e+65	Something else
17374	1.000000e+53	Bachelor’s degree (B.A., B.S., B.Eng., etc.)
8814	1.000000e+44	Professional degree (JD, MD, Ph.D, Ed.D, etc.)
20037	8.000000e+27	Professional degree (JD, MD, Ph.D, Ed.D, etc.)

8) En yüksek katılıma sahip 5 katılımcının Eğitim seviyesi

In [ ]:

In [ ]:

Bonus 1)

In [606…
```
stack_df= pd.read_csv('survey_results_public.csv')
```

In [607…
```
n_df = stack_df[['Age', 'LanguageHaveWorkedWith']].dropna()
```

In [608…
```
Total_responds=stack_df['LanguageHaveWorkedWith'].notna().sum()
n_df = n_df[n_df['LanguageHaveWorkedWith'].apply(lambda x:'Python' in x.split(';
```

In [609…
```
python_user= n_df.groupby('Age').size()
```

In [610…
```
print(python_user/ Total_responds*100)
```

```
Age
18-24 years old       13.169303
25-34 years old       18.289397
35-44 years old       10.357352
45-54 years old        4.370240
55-64 years old        1.734036
65 years or older      0.482049
Prefer not to say      0.242698
Under 18 years old     2.771780
dtype: float64
```

In [ ]:

Bonus 2)

In [611…
```
stack_df= pd.read_csv('survey_results_public.csv')
```

In [612…
```
stack_df= stack_df.dropna(subset=["RemoteWork","ConvertedCompYearly","Industry"]
```

In [613…
```
quarter_df =stack_df[(stack_df['ConvertedCompYearly']>= stack_df["ConvertedCompY
```

In [614…
```
print(quarter_df["Industry"].value_counts().head(8))
```

```
Industry
Software Development                          767
Other:                                        238
Healthcare                                    156
Fintech                                       155
Internet, Telecomm or Information Services    144
Retail and Consumer Services                  106
Media & Advertising Services                  102
Banking/Financial Services                     69
Name: count, dtype: int64
```

In [ ]:

In [ ]: