```
In [1]: import pandas as pd
           import numpy as np
           import matplotlib.pyplot as plt
           import seaborn as sns
 In [13]: file_path=r"C:\Users\Mrityunjay\Desktop\Data science naresh it\Class notes by me\Vi
           visa df=pd.read csv(file path)
           visa df
Out[13]:
                     case_id continent education_of_employee has_job_experience requires_job_train
               0
                     EZYV01
                                   Asia
                                                   High School
                                                                               Ν
               1
                     EZYV02
                                                                               Υ
                                   Asia
                                                      Master's
               2
                                                                               Ν
                     EZYV03
                                   Asia
                                                     Bachelor's
               3
                     EZYV04
                                                     Bachelor's
                                   Asia
                                                                               Ν
                                                                                Υ
               4
                     EZYV05
                                 Africa
                                                      Master's
                                                                                Υ
           25475 EZYV25476
                                                     Bachelor's
                                   Asia
           25476 EZYV25477
                                   Asia
                                                   High School
                                                                                Υ
                                                                               Υ
           25477 EZYV25478
                                   Asia
                                                      Master's
           25478 EZYV25479
                                   Asia
                                                                                Υ
                                                      Master's
                                                                                Υ
           25479 EZYV25480
                                                     Bachelor's
                                   Asia
          25480 rows × 12 columns
In [39]: visa_df["continent"].value_counts()
Out[39]: continent
           Asia
                             16861
                              3732
           Europe
           North America
                              3292
           South America
                               852
           Africa
                               551
           Oceania
                               192
           Name: count, dtype: int64
In [41]: visa df["case status"].value counts()
Out[41]: case status
           Certified
                        17018
           Denied
                          8462
           Name: count, dtype: int64
In [105...
          visa_df["continent"].unique()
```

```
array(['Asia', 'Africa', 'North America', 'Europe', 'South America',
Out[105...
                  'Oceania'], dtype=object)
In [54]: visa_df["case_status"].unique()
Out[54]: array(['Denied', 'Certified'], dtype=object)
In [82]: for i in visa df["continent"].unique():
              con=visa df["continent"]==i
              count=len(visa_df[con])
              print(f'{i}:{count}')
         Asia:16861
         Africa:551
         North America:3292
         Europe:3732
         South America:852
         Oceania:192
 In [88]: for i in visa_df["case_status"].unique():
              con=visa_df["case_status"]==i
              count=len(visa_df[con])
              print(f'{i}:{count}')
         Denied:8462
         Certified:17018
          con1=visa_df["case_status"]=="Certified"
In [158...
          visa_df[con1][["continent","case_status"]]
                  continent case status
```

-			4	_	-	
1	117	- 1	1	ь.	92	

 Asia Certified Africa Certified Asia Certified Asia Certified Asia Certified Certified Certified Certified Certified Certified Certified Certified Certified 		continent	case_status
5 Asia Certified 6 Asia Certified 8 Asia Certified 25475 Asia Certified	1	Asia	Certified
6 Asia Certified 8 Asia Certified 25475 Asia Certified	4	Africa	Certified
8 Asia Certified 25475 Asia Certified	5	Asia	Certified
25475 Asia Certified	6	Asia	Certified
25475 Asia Certified	8	Asia	Certified
7.5.G COLUMN	•••		
25476 Asia Certified	25475	Asia	Certified
	25476	Asia	Certified
25477 Asia Certified	25477	Asia	Certified
25478 Asia Certified	25478	Asia	Certified
25479 Asia Certified	25479	Asia	Certified

17018 rows × 2 columns

```
In [138...
          #how many applicants got Certified Visa per continent wise
          con2=visa_df["case_status"]=="Certified"
          df=visa df[con2]
          df["continent"].value_counts()
Out[138...
          continent
           Asia
                            11012
           Europe
                             2957
           North America
                             2037
           South America
                              493
           Africa
                              397
           Oceania
                              122
           Name: count, dtype: int64
In [160...
          con1=visa_df["case_status"]=="Denied"
          visa_df[con1][["continent","case_status"]]
```

Out[160...

	continent	case_status
0	Asia	Denied
2	Asia	Denied
3	Asia	Denied
7	North America	Denied
11	Asia	Denied
•••	•••	•••
25454	Asia	Denied
25459	Asia	Denied
25461	Asia	Denied
25462	Europe	Denied
25466	Europe	Denied

8462 rows × 2 columns

```
In [134... #how many applicants got Denied Visa per continent wise

con2=visa_df["case_status"]=="Denied"
    df=visa_df[con2]
    df["continent"].value_counts()
```

```
Out[134...
           continent
           Asia
                            5849
           North America
                            1255
                             775
           Europe
           South America
                             359
           Africa
                             154
           Oceania
                              70
           Name: count, dtype: int64
          con1=visa_df["continent"]=="Asia"
In [188...
          con2=visa_df["case_status"]=="Certified"
          con=con1 &con2
          visa_df[con][["continent","case_status"]]
```

Out[188...

	continent	case_status
1	Asia	Certified
5	Asia	Certified
6	Asia	Certified
8	Asia	Certified
10	Asia	Certified
•••		
25475	Asia	Certified
25476	Asia	Certified
25477	Asia	Certified
25478	Asia	Certified
25479	Asia	Certified

11012 rows × 2 columns

Out[228	[continent	case_status
	0	Asia	_ Denied
	2	Asia	Denied
	3	Asia	Denied
	11	Asia	Denied
	15	Asia	Denied
		•••	
	25450	Asia	Denied
	25452	Asia	Denied
	25454	Asia	Denied
	25459	Asia	Denied
		Asia	Denied
	25461	ASIa	Denied
	[5849	rows x 2	columns],
		continent	case_status
	1	Asia	Certified
	5	Asia	Certified
	6	Asia	Certified
	8	Asia	Certified
	10	Asia	Certified
	• • •		
	25475	Asia	Certified
	25476	Asia	Certified
	25477	Asia	Certified
	25478	Asia	Certified
	25479	Asia	Certified
	23473	ASIA	certified
	[11012	2 rows x 2	columns],
		continent	case_status
	242	Africa	Denied
	273	Africa	Denied
	895	Africa	Denied
	908	Africa	Denied
	1068	Africa	Denied
	• • •		• • •
	24557	Africa	
	24627		Denied
	25015	Africa	Denied
	25190		Denied
	25329		Denied
	Γ15 <i>1</i> ι	rows x 2 co	alumne l
	[134]		case status
	4	Africa	_
		Africa	
	18 74		Certified Certified
	194		Certified
	387	Africa	Certified
			 Certified
	25385		
	25408		
	25443		
	25446	Africa	
	25474	Africa	Certified

[397 rows x 2 columns],

```
continent case status
7
       North America
                           Denied
66
       North America
                           Denied
75
       North America
                           Denied
91
       North America
                           Denied
96
       North America
                           Denied
. . .
                              . . .
25371 North America
                           Denied
25377 North America
                           Denied
25427
       North America
                           Denied
25434
       North America
                           Denied
25451 North America
                           Denied
[1255 rows x 2 columns],
           continent case status
                        Certified
21
       North America
23
       North America
                        Certified
25
       North America
                        Certified
43
       North America
                        Certified
78
       North America
                        Certified
. . .
                              . . .
25447 North America
                        Certified
25465 North America
                        Certified
25467 North America
                        Certified
25469 North America
                        Certified
25470 North America
                        Certified
[2037 rows x 2 columns],
      continent case_status
36
         Europe
                      Denied
72
         Europe
                      Denied
187
         Europe
                      Denied
223
         Europe
                      Denied
240
         Europe
                      Denied
             . . .
. . .
                         . . .
25317
         Europe
                      Denied
25331
         Europe
                      Denied
25414
         Europe
                      Denied
25462
         Europe
                      Denied
25466
         Europe
                      Denied
[775 rows x 2 columns],
      continent case status
9
         Europe
                  Certified
16
         Europe
                  Certified
24
         Europe
                  Certified
37
         Europe
                   Certified
42
         Europe
                  Certified
. . .
             . . .
                         . . .
25420
         Europe
                  Certified
25426
         Europe
                   Certified
25435
         Europe
                   Certified
25448
         Europe
                   Certified
25460
         Europe
                   Certified
```

file:///C:/Users/Mrityunjay/Downloads/EDA_assignment6.html

[2957 rows x = 2 columns],

```
continent case status
121
       South America
                           Denied
332
       South America
                           Denied
356
       South America
                           Denied
390
       South America
                           Denied
421
       South America
                           Denied
. . .
                              . . .
25162 South America
                           Denied
25185 South America
                           Denied
25252 South America
                           Denied
25282 South America
                           Denied
25319 South America
                           Denied
[359 rows x 2 columns],
           continent case status
130
       South America
                       Certified
171
       South America
                        Certified
       South America
                        Certified
188
       South America
224
                        Certified
265
       South America
                        Certified
. . .
                              . . .
25300 South America
                        Certified
25364 South America
                        Certified
25413 South America
                        Certified
25444
       South America
                        Certified
25455 South America
                        Certified
[493 rows x 2 columns],
      continent case_status
        Oceania
                      Denied
288
955
        Oceania
                      Denied
960
        Oceania
                      Denied
1859
        Oceania
                     Denied
2254
        Oceania
                      Denied
            . . .
                         . . .
23335
        Oceania
                      Denied
23395
        Oceania
                      Denied
24318
        Oceania
                      Denied
24349
        Oceania
                      Denied
24865
        Oceania
                      Denied
[70 rows x 2 columns],
      continent case status
241
        Oceania
                  Certified
708
        Oceania
                  Certified
        Oceania
1099
                  Certified
1531
        Oceania
                  Certified
1701
        Oceania
                  Certified
. . .
            . . .
                         . . .
24727
        Oceania
                  Certified
25150
        Oceania
                  Certified
25196
        Oceania
                  Certified
25404
                   Certified
        Oceania
25405
        Oceania
                  Certified
```

[122 rows x 2 columns]]