```
In [1]:
         import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plp
         import seaborn as sns
        visa_df=pd.read_csv('Visadataset - Visadataset.csv')
In [2]:
         visa df
Out[2]:
                   case_id continent education_of_employee has_job_experience requires_job_traini
                   EZYV01
             0
                                Asia
                                               High School
                                                                         Ν
              1
                   EZYV02
                                Asia
                                                  Master's
                                                                          Υ
             2
                   EZYV03
                                                Bachelor's
                                Asia
                                                                         Ν
              3
                   EZYV04
                                                Bachelor's
                                Asia
                                                                         Ν
              4
                   EZYV05
                               Africa
                                                  Master's
                                                                          Υ
          25475 EZYV25476
                                                Bachelor's
                                Asia
                                                                          Υ
          25476 EZYV25477
                                               High School
                                                                          Υ
                                Asia
          25477 EZYV25478
                                                  Master's
                                Asia
                                                                          Υ
          25478 EZYV25479
                                                  Master's
                                                                          Υ
                                Asia
                                                Bachelor's
          25479 EZYV25480
                                Asia
                                                                          Υ
         25480 rows × 12 columns
In [3]: |education_of_employee=visa_df['education_of_employee'].unique()
         education of employee
Out[3]: array(['High School', "Master's", "Bachelor's", 'Doctorate'], dtype=objec
In [4]:
         ee=[]
         for i in education_of_employee:
             e of e=visa df['education of employee']==i
             value=len(visa_df[e_of_e])
             ee.append(value)
             print(f'{i}:{value}')
         High School:3420
         Master's:9634
```

localhost:8888/notebooks/OneDrive/EDA with python/EDA_assinment_3.ipynb

Bachelor's:10234 Doctorate:2192 In [26]: education_of_employee_df=pd.DataFrame(zip(education_of_employee,ee),columns
 education_of_employee_df

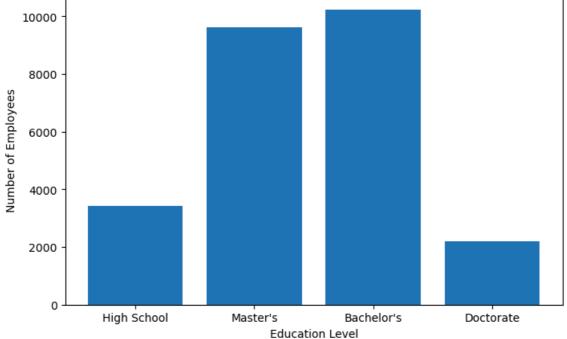
Out[26]:

	education_of_employee	count
0	High School	3420
1	Master's	9634
2	Bachelor's	10234
3	Doctorate	2192

```
In [27]: education_of_employee_df.to_csv("education_of_employee_df.csv",index=False)
```

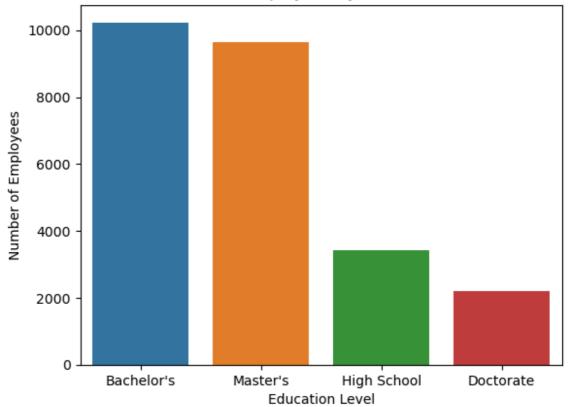
```
In [36]: plp.figure(figsize=(8,5))
    plp.bar('education_of_employee','count',data=education_of_employee_df)
    plp.xlabel('Education Level')
    plp.ylabel('Number of Employees')
    plp.title('Number of Employees by Education Level')
    plp.show()
```



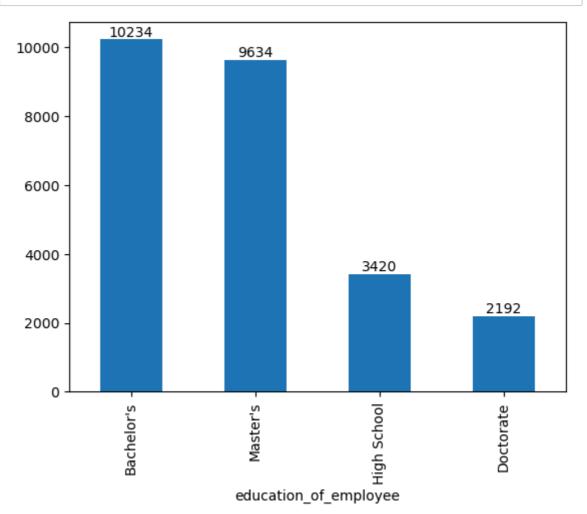


```
In [37]: e=visa_df['education_of_employee'].value_counts()
    keys=e.keys()
    sns.countplot(data=visa_df,x='education_of_employee',order=keys)
    plp.xlabel('Education Level')
    plp.ylabel('Number of Employees')
    plp.title('Number of Employees by Education Level')
    plp.show()
```





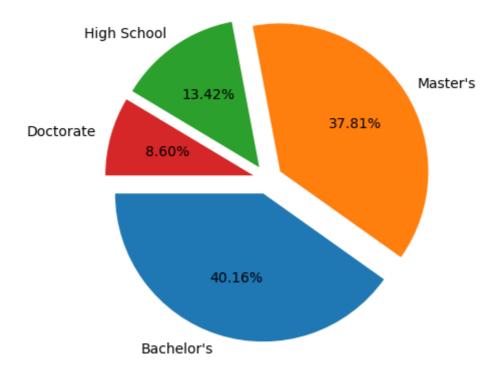
```
In [52]: ax=e.plot(kind='bar')
ax.bar_label(ax.containers[0])
plp.show()
```



```
In [41]: cdf=visa_df['education_of_employee'].value_counts()
    keys=cdf.keys()
    values=cdf.values
    keys,values
```

Out[41]: (Index(['Bachelor's', 'Master's', 'High School', 'Doctorate'], dtype='obje
 ct', name='education_of_employee'),
 array([10234, 9634, 3420, 2192], dtype=int64))

```
In [50]: plp.pie(values,explode=[0.1,0.1,0.1,0.1],labels=keys,autopct="%0.2f%",star
plp.show()
```



```
In [7]: region_of_employment=visa_df['region_of_employment'].unique()
    region_of_employment

Out[7]: array(['West', 'Northeast', 'South', 'Midwest', 'Island'], dtype=object)

In []:

In [8]: re=[]
    for i in region_of_employment:
        r_of_e=visa_df['region_of_employment']==i
        value=len(visa_df[r_of_e])
        re.append(value)
```

West:6586 Northeast:7195 South:7017 Midwest:4307 Island:375

print(f'{i}:{value}')

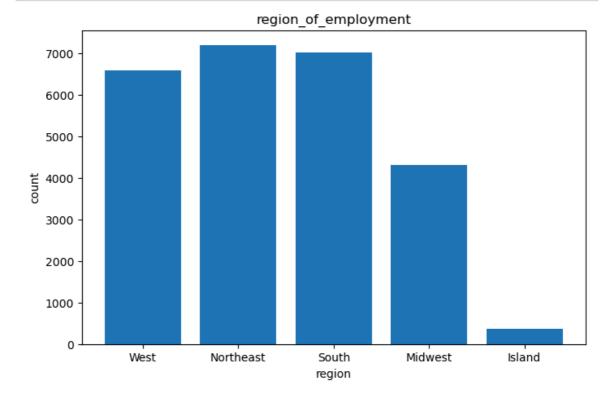
In [9]: region_of_employment_df=pd.DataFrame(zip(region_of_employment,re),columns=[
 region_of_employment_df

Out[9]:

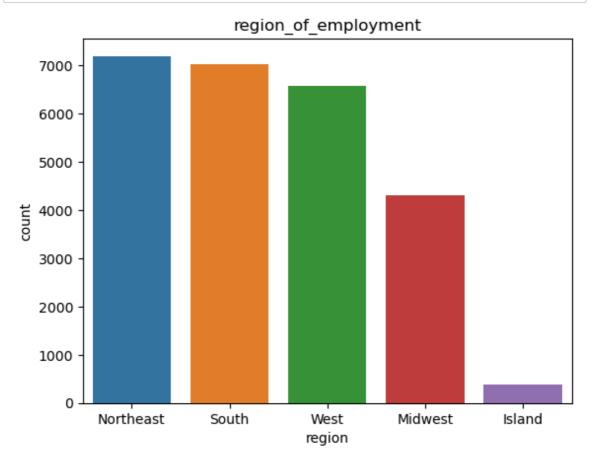
	region_of_employment	count
0	West	6586
1	Northeast	7195
2	South	7017
3	Midwest	4307
4	Island	375

```
In [10]: region_of_employment_df.to_csv('region_of_employment_df.csv',index=False)
```

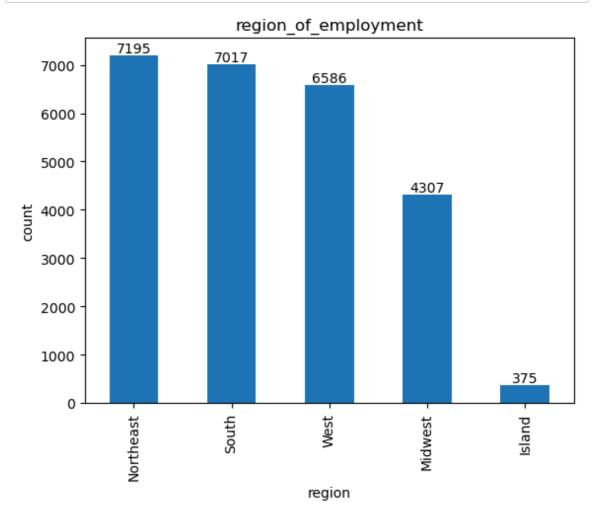
```
In [58]: plp.figure(figsize=(8,5))
    plp.bar('region_of_employment','count',data=region_of_employment_df)
    plp.xlabel('region')
    plp.ylabel('count')
    plp.title('region_of_employment')
    plp.show()
```



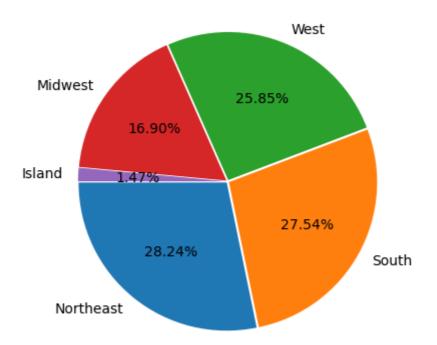
```
In [73]: a=visa_df['region_of_employment'].value_counts()
    key=a.keys()
    values=a.values
    sns.countplot(data=visa_df,x='region_of_employment',order=key)
    plp.title('region_of_employment')
    plp.xlabel('region')
    plp.show()
```



```
In [67]: b=a.plot(kind='bar')
    b.bar_label(b.containers[0])
    plp.xlabel('region')
    plp.ylabel('count')
    plp.title('region_of_employment')
    plp.show()
```



```
In [77]: plp.pie(values,explode=[0.01,0.01,0.01,0.01,0.01],labels=key,autopct='%0.2f
plp.show()
```



```
In [11]: uniqe_case_status=visa_df['case_status'].unique()
uniqe_case_status

Out[11]: array(['Denied', 'Certified'], dtype=object)
```

Denied:8462 Certified:17018

In [13]: case_status_df=pd.DataFrame(zip(uniqe_case_status,c_c_s),columns=['case_status_df

Out[13]:

	case_status	count
0	Denied	8462
1	Certified	17018

```
In [14]: case_status_df.to_csv('case_status_df.csv',index=False)
```

In []: