

```
from google.colab import drive
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force\_remount=True).

```
%cd /content/drive/MyDrive/Intern
```

```
/content/drive/MyDrive/Intern
```

```
import pandas as pd
df=pd.read_csv('/content/drive/MyDrive/Intern/Batch 3.csv', encoding='latin-1')
```

```
df
```

1 to 10 of 1400 entries   

index	Full Name	Gender	Qualification	Degree	Pass-Out Year	College Name	C
0	Gowthaman R	Man	Arts & Scieince	BCA	2023	Islamiah College - Vaniyambadi	Ambu
1	Sugeshnandu	Man	Arts & Scieince	BCA	2023	Kmg College Of Arts And Science Gudiyatham	Ambu
2	P Mohammed Junaid	Man	Arts & Scieince	Bsc computer science	2023	Mazharul Uloom College	Ambu
3	Ashwini	Woman	Arts & Scieince	Bachelor of Computer Application	2022	Government Thirumagal Mills College, Gudiyattam	Ambu
4	Chandrakanth	Man	Engineering	Mechanical	2020	Panimalar Institute Of Technology	Arakk
5	Punniyanathan.s	Man	Arts & Scieince	BSc computer science	2020	Indo American College	Arakk
6	Surya	Man	Engineering	B.e	2023	Pallavan College Of Engineering	Arakk
7	Vasugi	Woman	Engineering	B.e	2023	Pallavan College Of Engineering	Arakk
8	Kamesh S	Man	Engineering	Computer science engineering	2023	Sri Balaji Chockalingam Engineering College	arcot
9	Sakthivel.S	Man	Engineerina	BE(ECE)	2021	University College Of	Arival

```
category_counts = df['Full Name'].value_counts()
```

```
# Display the counts
print('No of Entrolled Candidates:',len(category_counts))
```

No of Entrolled Candidates: 1247

```
# Count occurrences of each gender
gender_counts = df['Gender'].value_counts()
```

```
# Display the counts
print('Number of Male Candidates:', gender_counts['Man'])
print('Number of Female Candidates:', gender_counts['Woman'])
```

Number of Male Candidates: 919  
Number of Female Candidates: 348

```
import matplotlib.pyplot as plt
```

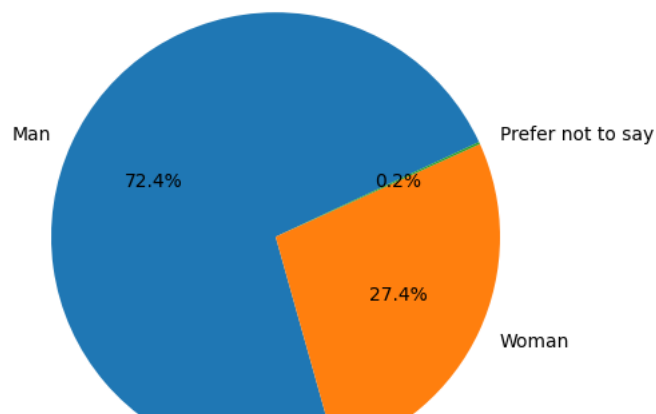
```
gender_counts = df['Gender'].value_counts()
```

```
# Plotting the pie chart
plt.pie(gender_counts, labels=gender_counts.index, autopct='%1.1f%%', startangle=25)
plt.axis('equal') # Equal aspect ratio ensures that the pie chart is circular.
```

```
# Adding title
plt.title('Gender Distribution')
```

```
# Display the pie chart
plt.show()
```

Gender Distribution



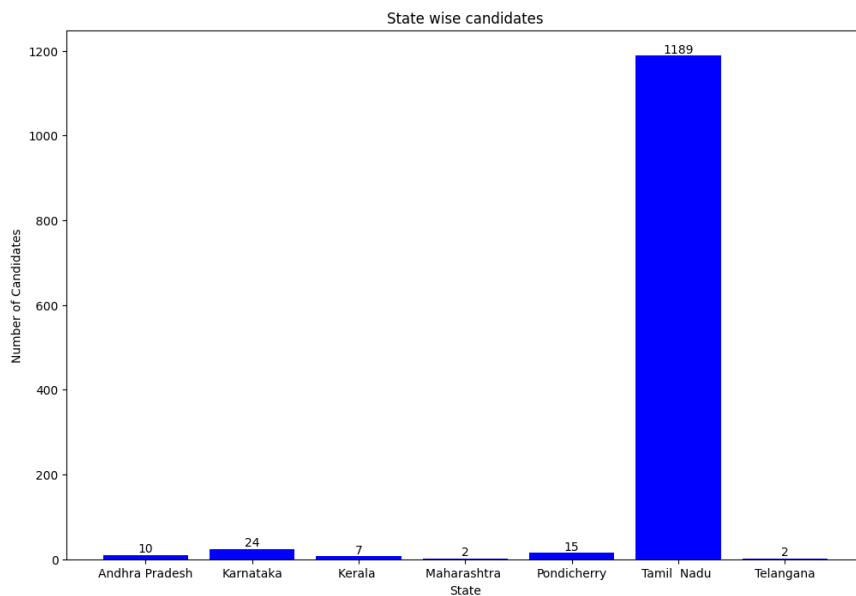
```
import pandas as pd
import matplotlib.pyplot as plt

# Count occurrences of each name
name_counts = df['Full Name'].value_counts()

# Group by 'State' and count the unique names for each year
State_counts = df.groupby('State')['Full Name'].nunique()
# Set the size of the figure
plt.figure(figsize=(12, 8))

# Plotting the bar chart
bars = plt.bar(State_counts.index, State_counts.values, color='blue')
# Adding labels and title
plt.xlabel('State')
plt.ylabel('Number of Candidates')
plt.title('State wise candidates')
# Adding data labels
for bar in bars:
    yval = bar.get_height()
    plt.text(bar.get_x() + bar.get_width()/2, yval, round(yval, 2), ha='center', va='bottom')

# Display the bar chart
plt.show()
```



```
citycounts = df['City'].value_counts()
import numpy as np
np.set_printoptions(threshold=np.inf)
# Display all
print('City wise candidates:\n',(citycounts.to_markdown()))
```

```
City wise candidates:
|-----|-----:|
| Chennai | 257 |
| Coimbatore | 126 |
| Madurai | 68 |
| Salem | 59 |
| Tiruchirappalli | 58 |
| Tirunelveli | 37 |
| Dindigul | 36 |
| Namakkal | 27 |
| Erode | 27 |
| Kumbakonam | 25 |
| Karur | 22 |
| Theni | 22 |
| Tiruppur | 21 |
| Thanjavur | 20 |
| Villupuram | 19 |
| Nagercoil | 18 |
| Bengaluru | 17 |
| Pudukkottai | 15 |
| Vellore | 14 |
| Kanchipuram | 12 |
| Chengalpattu | 11 |
| Thoothukudi | 10 |
| Krishnagiri | 9 |
| Tenkasi | 9 |
| Dharmapuri | 8 |
| Puducherry | 8 |
| Ariyalur | 8 |
| Tiruvannamalai | 8 |
| Rajapalayam | 7 |
| Cuddalore | 7 |
| Pattukottai | 7 |
| Virudhunagar | 7 |
| Nagapattinam | 6 |
| Thiruvallur | 6 |
| Perambalur | 6 |
| Cheyyur | 6 |
| Pollachi | 5 |
| Ooty | 5 |
| Kallakurchi | 5 |
| Thirupattur | 5 |
| Tirupattur | 5 |
| Ramanathapuram | 5 |
| Mayiladthurai | 5 |
| Sivagangai | 5 |
| Hosur | 5 |
| Srivilliputhur | 5 |
| Arakkonam | 4 |
| Sathyamangalam | 4 |
| Palani | 4 |
| Pondicherry | 4 |
| Tirupati | 4 |
| Thiruvannamalai | 4 |
| Tiruvallur | 4 |
| Thiruvarur | 4 |
| Tiruchengode | 4 |
```

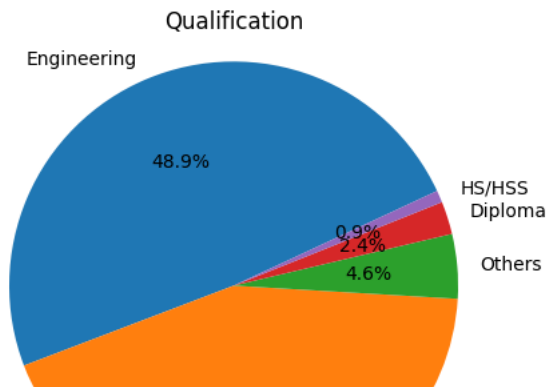
```
import matplotlib.pyplot as plt

qual_counts = df['Qualification'].value_counts()

# Plotting the pie chart
plt.pie(qual_counts, labels=qual_counts.index, autopct='%1.1f%%', startangle=25)
plt.axis('equal') # Equal aspect ratio ensures that the pie chart is circular.

# Adding title
plt.title('Qualification')

# Display the pie chart
plt.show()
```



```
clg_counts = df['College Name'].value_counts()
```

```
# Display the counts
print('College wise candidates:\n',(clg_counts.to_markdown()))
```

College wise candidates:

	c
-----	
Pсна College Of Engineering And Technology	
Dhanalakshmi Srinivasan College Of Engineering And Technology	
Bannari Amman Institute Of Technology	
Dr.N.G.P Arts And Science College	
Arignar Anna Government Arts College	
The American College	
Pсна College Of Engineering And Technology	
Anna University	
Kongu Arts And Science College	
Loyola College	
Dr. M.G.R.Educational And Research Institute	
Jamal Mohamed College	
Rajalakshmi Engineering College	
Coimbatore Institute Of Technology	
Alagappa University	
Bharathidasan University	
Dr.Mahalingam College Of Engineering And Technology	
Bharathiar University	
Bishop Heber College	
Adhiyamaan College Of Engineering	
Adhiparasakthi Engineering College	
Sri Shakthi Institute Of Engineering And Technology	
Panimalar Engineering College	
Sri Krishna College Of Engineering And Technology	
Meenakshi College Of Engineering	
Saveetha Engineering College	
Sona College Of Technology	
Dr.G.R.Damodaran College Of Arts And Science	
Annamalai University	
Excel Engineering College	
Sri Krishna College Of Engineering And Technology	
Mahendra Engineering College	
Jj College Of Arts And Science	
The American College	
Sethu Institute Of Technology	
Kongu Engineering College	
Ksr College Of Engineering - Namakkal	
Paavai Engineering College	
Alagappa Chettiar Government College Of Engineering And Technology,Karaikudi	
A.M Jain College	
Arumugam Pillai Seethai Ammal College	
Peri Institute Of Technology	
Sun Arts And Science College	
Sethu Institute Of Technology	
University Of Madras	
University College Of Engineering Villupuram	
Mahendra Engineering College	
Hindustan College Of Arts And Science	
Lrg Government Arts College For Womens	
Dhanalakshmi College Of Engineering	
Prince Shri Venkateshwara Padmavathy Engineering College	
Annai Collage Of Arts And Science	
Kongunadu College Of Engineering And Technology	
Tamilnadu College Of Engineering	

```
import pandas as pd
import matplotlib.pyplot as plt
```

```
# Count occurrences of each name
name_counts = df['Full Name'].value_counts()
```

```
# Group by 'Pass-Out Year' and count the unique names for each year
```

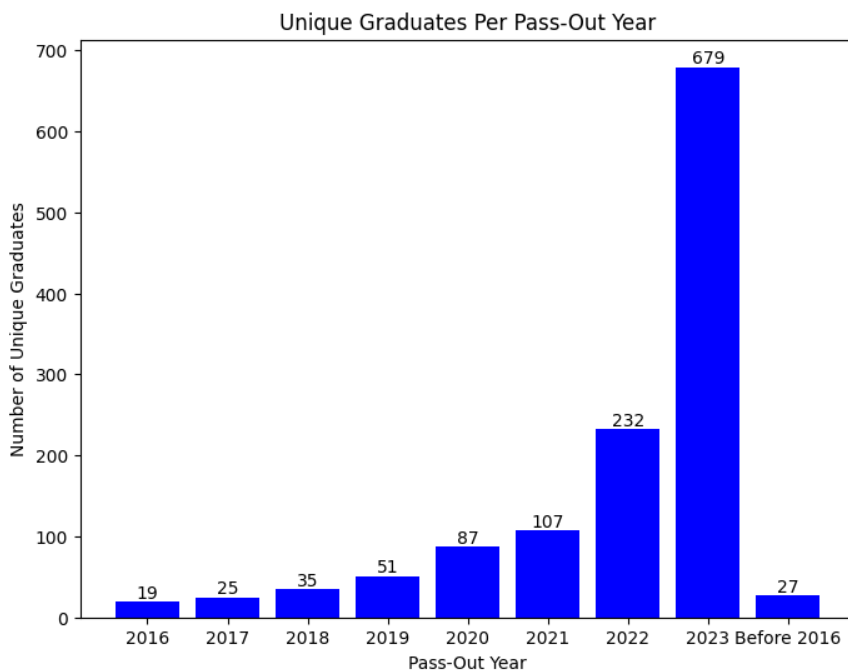
```

yearly_counts = df.groupby('Pass-Out Year')['Full Name'].nunique()
# Set the size of the figure
plt.figure(figsize=(8, 6))

# Plotting the bar chart
bars = plt.bar(yearly_counts.index, yearly_counts.values, color='blue')
# Adding labels and title
plt.xlabel('Pass-Out Year')
plt.ylabel('Number of Unique Graduates')
plt.title('Unique Graduates Per Pass-Out Year')
# Adding data labels
for bar in bars:
    yval = bar.get_height()
    plt.text(bar.get_x() + bar.get_width()/2, yval, round(yval, 2), ha='center', va='bottom')

# Display the bar chart
plt.show()

```



```

# Count occurrences of each name
name_counts = df['Full Name'].value_counts()

# Group by 'Pass-Out Year' and sum the counts for each year
domain_counts = df.groupby('What you want to learn ?')['Full Name'].count()
# Set the size of the figure
plt.figure(figsize=(12, 10))
# Plotting the line chart
plt.plot(domain_counts.index, domain_counts.values, marker='o', linestyle='-', color='b')
# Adding data labels
for i, txt in enumerate(domain_counts.values):
    plt.text(domain_counts.index[i], domain_counts.values[i], f'{txt}', ha='left', va='bottom')

# Adding labels and title
plt.xlabel('Domain Interest')
plt.ylabel('Number of Graduates')
plt.title('Interested Domain')
plt.xticks(rotation=90, fontsize=9)
plt.yticks(fontsize=9)
# Adding legend
plt.legend()

# Display the line chart
plt.show()

```

WARNING:matplotlib.legend.No artists with labels found to put in legend. Note that a

