

Matplotlib.pyplot & Seaborn library was used, by using python.

import matplotlib.pyplot as plt

import seaborn as sns

# Publication Ready graph 1

from turtle import title

sns.catplot(x='Age\_group', hue="Gender", kind="count",

            palette="bright", edgecolor=".10",

            data=df\_shi, order=['16-20','21-25','26-30','31-35','36-40','41-45'])

plt.title('Age groups by Gender')

plt.ylim(0,120)

plt.ylabel('Number of people')

# Publication Ready Graph-1 (Statistics)

n\_by\_state = df\_shi.groupby(["Age\_group",'Gender'])["Gender"].count()

stat\_1 = n\_by\_state.unstack()

stat\_1

count() function is used to count values and group by function is used to group our data by age and gender.

|  |  |  |
| --- | --- | --- |
| Gender | Female | Male |
| Age Group |  |  |
| 16-20 | 52 | 72 |
| 21-25 | 85 | 103 |
| 26-30 | 78 | 83 |
| 31-35 | 71 | 52 |
| 36-40 | 52 | 49 |
| 41-45 | 49 | 55 |

# Publication Ready graph 2

from turtle import title

sns.catplot(x='Education\_lvl',hue = 'Career', kind="count",

            palette="bright", edgecolor=".10",

            data=df\_shi,order=['School','College','University','Islamic Scholar'])

plt.title('Education level and Career Distribution')

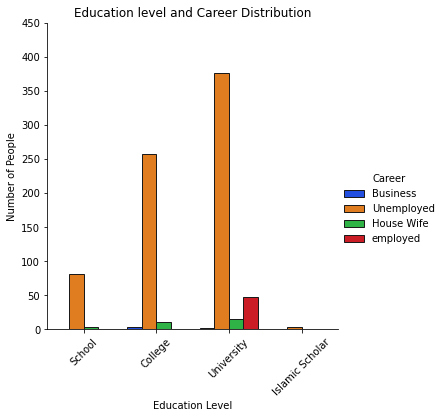
plt.ylim(0,450)

plt.xticks(rotation =45)

plt.ylabel('Number of People')

plt.xlabel('Education Level')

Matplotlib.pyplot & Seaborn library was used, by using python.



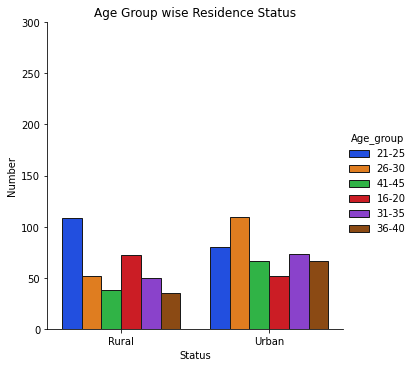
# Publication Ready Graph-2 (Statistics)

    n\_by\_state = df\_shi.groupby(["Education\_lvl",'Career'])["Career"].count()

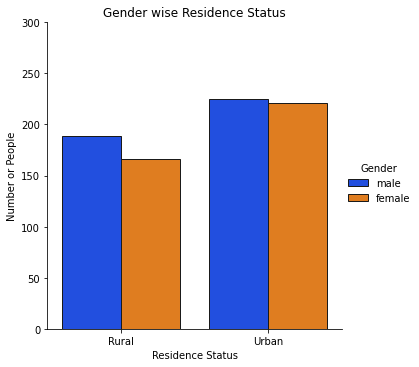
    n\_by\_state.unstack()

group by function is used to group our data into Education level and career, and then count values.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Career | Business | House Wife | Unemployed | Employed |
| Education Level |  |  |  |  |
| College | 3 | 11 | 257 | - |
| Islamic Scholar | - | 1 | 3 | - |
| School | - | 4 | 81 | - |
| University | 2 | 15 | 376 | 48 |



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Age Group | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 |
| Residence Status |  |  |  |  |  |  |
| Rural | 72 | 108 | 52 | 50 | 35 | 38 |
| Urban | 52 | 80 | 109 | 73 | 66 | 66 |



# Publication Ready graph 4

from tkinter.font import BOLD

from tkinter.ttk import Style

from turtle import title

sns.catplot(x='Residence\_status', hue="Gender", kind="count",

            palette="bright", edgecolor=".10",

            data=df\_shi)

plt.title('Gender wise Residence Status')

plt.ylim(0,300)

plt.ylabel('Number or People')

plt.xlabel('Residence Status')

# Publication Ready Graph-4 (Statistics)

n\_by\_state = df\_shi.groupby(["Residence\_status",'Gender'])["Age\_group"].count()

n\_by\_state.unstack()

|  |  |  |
| --- | --- | --- |
| Gender | female | Male |
| Residence Status |  |  |
| Rural | 166 | 189 |
| Urban | 221 | 225 |

**Question Wise analysis**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Question | Highly Aware(Yes) | % age | Limited Awareness(No) | %age | Not Aware(don’t know) | %age |
| Q1 | 516 | 64.41 | 216 | 26.96 | 69 | 8.61 |
| Q2 | 267 | 33.33 | 417 | 52.05 | 117 | 14.60 |
| Q3 | 384 | 47.94 | 304 | 37.95 | 113 | 14.11 |
| Q4 | 305 | 38.07 | 322 | 40.19 | 174 | 21.72 |
| Q5 | 328 | 40.94 | 307 | 38.32 | 166 | 20.72 |
| Q6 | 280 | 34.95 | 361 | 45.06 | 160 | 19.97 |
| Q7 | 258 | 32.21 | 388 | 48.44 | 155 | 19.35 |
| Q8 | 268 | 33.45 | 363 | 45.31 | 170 | 21.22 |
| Q9 | 382 | 47.69 | 221 | 27.59 | 198 | 24.72 |
| Q10 | 264 | 32.95 | 314 | 39.20 | 223 | 27.84 |
| Q11 | 547 | 68.28 | 167 | 20.84 | 87 | 10.89 |
| Q12 | 469 | 58.55 | 220 | 27.46 | 112 | 13.98 |
| Q13 | 329 | 41.07 | 290 | 36.20 | 182 | 22.72 |
| Q14 | 554 | 69.16 | 183 | 22.84 | 64 | 7.99 |
| Q15 | 213 | 26.59 | 464 | 57.93 | 124 | 16.48 |
| Q16 | 350 | 43.69 | 265 | 33.08 | 186 | 23.22 |
| Q17 | 264 | 32.95 | 451 | 56.30 | 86 | 10.73 |
| Q18 | 341 | 42.57 | 320 | 39.95 | 140 | 17.47 |
| Q19 | 177 | 22.09 | 519 | 64.79 | 105 | 13.12 |

|  |  |
| --- | --- |
| Gender | %age |
| Male | 51.68 |
| Female | 48.31 |

|  |  |
| --- | --- |
| Career | %age |
| Unemployed | 89.51 |
| Employed | 5.99 |
| House Wife | 3.8 |
| Business | 0.62 |

|  |  |
| --- | --- |
| Education Level | %age |
| University | 55.05 |
| College | 33.83 |
| School | 10.61 |
| Islamic Scholar | 0.49 |

|  |  |
| --- | --- |
| Residence Status | %age |
| Rural | 55.68 |
| Urban | 44.32 |

**Drill Down:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q1 | | | | | |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 2 | 0.25 | 9 | 1.12 | 41 | 5.12 |
|  | **male** | 12 | 1.50 | 23 | 2.87 | 37 | 4.62 |
| 21-25 | **female** | 4 | 0.50 | 21 | 2.62 | 60 | 7.49 |
|  | **male** | 8 | 1.00 | 20 | 2.50 | 75 | 9.36 |
| 26-30 | **female** | 6 | 0.75 | 28 | 3.50 | 44 | 5.49 |
|  | **male** | 7 | 0.87 | 32 | 4.00 | 44 | 5.49 |
| 31-35 | **female** | 7 | 0.87 | 22 | 2.75 | 42 | 5.24 |
|  | **male** | 6 | 0.75 | 9 | 1.12 | 37 | 4.62 |
| 36-40 | **female** | 4 | 0.50 | 14 | 1.75 | 34 | 4.24 |
|  | **male** | 7 | 0.87 | 18 | 2.25 | 24 | 3.00 |
| 41-45 | **female** | 2 | 0.25 | 9 | 1.12 | 38 | 4.74 |
|  | **male** | 4 | 0.50 | 11 | 1.37 | 40 | 4.99 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q2 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 7 | 0.87 | 26 | 3.25 | 19 | 2.37 |
|  | **male** | 10 | 1.25 | 41 | 5.12 | 21 | 2.62 |
| 21-25 | **female** | 15 | 1.87 | 45 | 5.62 | 25 | 3.12 |
|  | **male** | 12 | 1.50 | 59 | 7.37 | 32 | 4.00 |
| 26-30 | **female** | 11 | 1.37 | 38 | 4.74 | 29 | 3.62 |
|  | **male** | 14 | 1.75 | 46 | 5.74 | 23 | 2.87 |
| 31-35 | **female** | 8 | 1.00 | 33 | 4.12 | 30 | 3.75 |
|  | **male** | 7 | 0.87 | 24 | 3.00 | 21 | 2.62 |
| 36-40 | **female** | 12 | 1.50 | 25 | 3.12 | 15 | 1.87 |
|  | **male** | 7 | 0.87 | 26 | 3.25 | 16 | 2.00 |
| 41-45 | **female** | 6 | 0.75 | 31 | 3.87 | 12 | 1.50 |
|  | **male** | 8 | 1.00 | 23 | 2.87 | 24 | 3.00 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q3 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 7 | 0.87 | 22 | 2.75 | 23 | 2.87 |
|  | **male** | 6 | 0.75 | 15 | 1.87 | 51 | 6.37 |
| 21-25 | **female** | 15 | 1.87 | 32 | 4.00 | 38 | 4.74 |
|  | **male** | 17 | 2.12 | 38 | 4.74 | 48 | 5.99 |
| 26-30 | **female** | 10 | 1.25 | 24 | 3.00 | 44 | 5.49 |
|  | **male** | 7 | 0.87 | 38 | 4.74 | 38 | 4.74 |
| 31-35 | **female** | 18 | 2.25 | 28 | 3.50 | 25 | 3.12 |
|  | **male** | 11 | 1.37 | 17 | 2.12 | 24 | 3.00 |
| 36-40 | **female** | 8 | 1.00 | 26 | 3.25 | 18 | 2.25 |
|  | **male** | 7 | 0.87 | 19 | 2.37 | 23 | 2.87 |
| 41-45 | **female** | 3 | 0.37 | 25 | 3.12 | 21 | 2.62 |
|  | **male** | 4 | 0.50 | 20 | 2.50 | 31 | 3.87 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q4 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 12 | 1.50 | 17 | 2.12 | 23 | 2.87 |
|  | **male** | 21 | 2.62 | 23 | 2.87 | 28 | 3.50 |
| 21-25 | **female** | 25 | 3.12 | 36 | 4.49 | 24 | 3.00 |
|  | **male** | 13 | 1.62 | 34 | 4.24 | 56 | 6.99 |
| 26-30 | **female** | 17 | 2.12 | 37 | 4.62 | 24 | 3.00 |
|  | **male** | 17 | 2.12 | 31 | 3.87 | 35 | 4.37 |
| 31-35 | **female** | 19 | 2.37 | 28 | 3.50 | 24 | 3.00 |
|  | **male** | 9 | 1.12 | 21 | 2.62 | 22 | 2.75 |
| 36-40 | **female** | 11 | 1.37 | 25 | 3.12 | 16 | 2.00 |
|  | **male** | 12 | 1.50 | 21 | 2.62 | 16 | 2.00 |
| 41-45 | **female** | 8 | 1.00 | 20 | 2.50 | 21 | 2.62 |
|  | **male** | 10 | 1.25 | 29 | 3.62 | 16 | 2.00 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q5 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 11 | 1.37 | 21 | 2.62 | 20 | 2.50 |
|  | **male** | 19 | 2.37 | 34 | 4.24 | 19 | 2.37 |
| 21-25 | **female** | 19 | 2.37 | 22 | 2.75 | 44 | 5.49 |
|  | **male** | 12 | 1.50 | 47 | 5.87 | 44 | 5.49 |
| 26-30 | **female** | 17 | 2.12 | 33 | 4.12 | 28 | 3.50 |
|  | **male** | 17 | 2.12 | 32 | 4.00 | 34 | 4.24 |
| 31-35 | **female** | 21 | 2.62 | 26 | 3.25 | 24 | 3.00 |
|  | **male** | 10 | 1.25 | 18 | 2.25 | 24 | 3.00 |
| 36-40 | **female** | 12 | 1.50 | 22 | 2.75 | 18 | 2.25 |
|  | **male** | 11 | 1.37 | 23 | 2.87 | 15 | 1.87 |
| 41-45 | **female** | 8 | 1.00 | 15 | 1.87 | 26 | 3.25 |
|  | **male** | 9 | 1.12 | 14 | 1.75 | 32 | 4.00 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q6 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 3 | 0.37 | 27 | 3.37 | 22 | 2.75 |
|  | **male** | 6 | 0.75 | 31 | 3.87 | 35 | 4.37 |
| 21-25 | **female** | 8 | 1.00 | 36 | 4.49 | 41 | 5.12 |
|  | **male** | 12 | 1.50 | 53 | 6.62 | 38 | 4.74 |
| 26-30 | **female** | 24 | 3.00 | 31 | 3.87 | 23 | 2.87 |
|  | **male** | 28 | 3.50 | 33 | 4.12 | 22 | 2.75 |
| 31-35 | **female** | 24 | 3.00 | 30 | 3.75 | 17 | 2.12 |
|  | **male** | 10 | 1.25 | 25 | 3.12 | 17 | 2.12 |
| 36-40 | **female** | 9 | 1.12 | 23 | 2.87 | 20 | 2.50 |
|  | **male** | 14 | 1.75 | 20 | 2.50 | 15 | 1.87 |
| 41-45 | **female** | 10 | 1.25 | 27 | 3.37 | 12 | 1.50 |
|  | **male** | 12 | 1.50 | 25 | 3.12 | 18 | 2.25 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q7 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 4 | 0.50 | 28 | 3.50 | 20 | 2.50 |
|  | **male** | 15 | 1.87 | 40 | 4.99 | 17 | 2.12 |
| 21-25 | **female** | 11 | 1.37 | 52 | 6.49 | 22 | 2.75 |
|  | **male** | 12 | 1.50 | 42 | 5.24 | 49 | 6.12 |
| 26-30 | **female** | 15 | 1.87 | 36 | 4.49 | 27 | 3.37 |
|  | **male** | 25 | 3.12 | 43 | 5.37 | 15 | 1.87 |
| 31-35 | **female** | 20 | 2.50 | 24 | 3.00 | 27 | 3.37 |
|  | **male** | 11 | 1.37 | 20 | 2.50 | 21 | 2.62 |
| 36-40 | **female** | 9 | 1.12 | 29 | 3.62 | 14 | 1.75 |
|  | **male** | 7 | 0.87 | 25 | 3.12 | 17 | 2.12 |
| 41-45 | **female** | 12 | 1.50 | 20 | 2.50 | 17 | 2.12 |
|  | **male** | 14 | 1.75 | 29 | 3.62 | 12 | 1.50 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q8 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 13 | 1.62 | 21 | 2.62 | 18 | 2.25 |
|  | **male** | 18 | 2.25 | 42 | 5.24 | 11 | 1.37 |
| 21-25 | **female** | 20 | 2.50 | 37 | 4.62 | 28 | 3.50 |
|  | **male** | 15 | 1.87 | 43 | 5.37 | 45 | 5.62 |
| 26-30 | **female** | 21 | 2.62 | 35 | 4.37 | 22 | 2.75 |
|  | **male** | 20 | 2.50 | 28 | 3.50 | 35 | 4.37 |
| 31-35 | **female** | 21 | 2.62 | 27 | 3.37 | 23 | 2.87 |
|  | **male** | 10 | 1.25 | 22 | 2.75 | 20 | 2.50 |
| 36-40 | **female** | 7 | 0.87 | 27 | 3.37 | 18 | 2.25 |
|  | **male** | 10 | 1.25 | 23 | 2.87 | 16 | 2.00 |
| 41-45 | **female** | 6 | 0.75 | 22 | 2.75 | 21 | 2.62 |
|  | **male** | 8 | 1.00 | 36 | 4.49 | 11 | 1.37 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q9 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 18 | 2.25 | 11 | 1.37 | 23 | 2.87 |
|  | **male** | 23 | 2.87 | 19 | 2.37 | 30 | 3.75 |
| 21-25 | **female** | 20 | 2.50 | 23 | 2.87 | 42 | 5.24 |
|  | **male** | 17 | 2.12 | 33 | 4.12 | 53 | 6.62 |
| 26-30 | **female** | 20 | 2.50 | 10 | 1.25 | 48 | 5.99 |
|  | **male** | 32 | 4.00 | 20 | 2.50 | 31 | 3.87 |
| 31-35 | **female** | 10 | 1.25 | 18 | 2.25 | 43 | 5.37 |
|  | **male** | 7 | 0.87 | 19 | 2.37 | 26 | 3.25 |
| 36-40 | **female** | 16 | 2.00 | 17 | 2.12 | 19 | 2.37 |
|  | **male** | 13 | 1.62 | 12 | 1.50 | 24 | 3.00 |
| 41-45 | **female** | 12 | 1.50 | 15 | 1.87 | 22 | 2.75 |
|  | **male** | 10 | 1.25 | 24 | 3.00 | 21 | 2.62 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q10 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 7 | 0.87 | 21 | 2.62 | 24 | 3.00 |
|  | **male** | 20 | 2.50 | 36 | 4.49 | 16 | 2.00 |
| 21-25 | **female** | 26 | 3.25 | 38 | 4.74 | 21 | 2.62 |
|  | **male** | 29 | 3.62 | 25 | 3.12 | 49 | 6.12 |
| 26-30 | **female** | 25 | 3.12 | 24 | 3.00 | 29 | 3.62 |
|  | **male** | 27 | 3.37 | 38 | 4.74 | 18 | 2.25 |
| 31-35 | **female** | 21 | 2.62 | 31 | 3.87 | 19 | 2.37 |
|  | **male** | 15 | 1.87 | 19 | 2.37 | 18 | 2.25 |
| 36-40 | **female** | 14 | 1.75 | 24 | 3.00 | 14 | 1.75 |
|  | **male** | 17 | 2.12 | 13 | 1.62 | 19 | 2.37 |
| 41-45 | **female** | 7 | 0.87 | 25 | 3.12 | 17 | 2.12 |
|  | **male** | 15 | 1.87 | 20 | 2.50 | 20 | 2.50 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q11 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 6 | 0.75 | 15 | 1.87 | 31 | 3.87 |
|  | **male** | 12 | 1.50 | 16 | 2.00 | 44 | 5.49 |
| 21-25 | **female** | 14 | 1.75 | 25 | 3.12 | 46 | 5.74 |
|  | **male** | 10 | 1.25 | 21 | 2.62 | 72 | 8.99 |
| 26-30 | **female** | 12 | 1.50 | 16 | 2.00 | 50 | 6.24 |
|  | **male** | 3 | 0.37 | 15 | 1.87 | 65 | 8.11 |
| 31-35 | **female** | 6 | 0.75 | 18 | 2.25 | 47 | 5.87 |
|  | **male** | 3 | 0.37 | 9 | 1.12 | 40 | 4.99 |
| 36-40 | **female** | 7 | 0.87 | 6 | 0.75 | 39 | 4.87 |
|  | **male** | 6 | 0.75 | 10 | 1.25 | 33 | 4.12 |
| 41-45 | **female** | 3 | 0.37 | 4 | 0.50 | 42 | 5.24 |
|  | **male** | 5 | 0.62 | 12 | 1.50 | 38 | 4.74 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q12 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 4 | 0.50 | 12 | 1.50 | 36 | 4.49 |
|  | **male** | 13 | 1.62 | 24 | 3.00 | 35 | 4.37 |
| 21-25 | **female** | 22 | 2.75 | 21 | 2.62 | 42 | 5.24 |
|  | **male** | 11 | 1.37 | 46 | 5.74 | 46 | 5.74 |
| 26-30 | **female** | 7 | 0.87 | 22 | 2.75 | 49 | 6.12 |
|  | **male** | 11 | 1.37 | 18 | 2.25 | 54 | 6.74 |
| 31-35 | **female** | 9 | 1.12 | 15 | 1.87 | 47 | 5.87 |
|  | **male** | 6 | 0.75 | 15 | 1.87 | 31 | 3.87 |
| 36-40 | **female** | 7 | 0.87 | 10 | 1.25 | 35 | 4.37 |
|  | **male** | 5 | 0.62 | 12 | 1.50 | 32 | 4.00 |
| 41-45 | **female** | 6 | 0.75 | 11 | 1.37 | 32 | 4.00 |
|  | **male** | 11 | 1.37 | 14 | 1.75 | 30 | 3.75 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q13 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 21 | 2.62 | 16 | 2.00 | 15 | 1.87 |
|  | **male** | 26 | 3.25 | 31 | 3.87 | 15 | 1.87 |
| 21-25 | **female** | 14 | 1.75 | 37 | 4.62 | 34 | 4.24 |
|  | **male** | 18 | 2.25 | 37 | 4.62 | 48 | 5.99 |
| 26-30 | **female** | 23 | 2.87 | 22 | 2.75 | 33 | 4.12 |
|  | **male** | 16 | 2.00 | 32 | 4.00 | 35 | 4.37 |
| 31-35 | **female** | 18 | 2.25 | 24 | 3.00 | 29 | 3.62 |
|  | **male** | 8 | 1.00 | 18 | 2.25 | 26 | 3.25 |
| 36-40 | **female** | 9 | 1.12 | 21 | 2.62 | 22 | 2.75 |
|  | **male** | 14 | 1.75 | 18 | 2.25 | 17 | 2.12 |
| 41-45 | **female** | 4 | 0.50 | 17 | 2.12 | 28 | 3.50 |
|  | **male** | 11 | 1.37 | 17 | 2.12 | 27 | 3.37 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q14 | | | | |  |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 1 | 0.12 | 13 | 1.62 | 38 | 4.74 |
|  | **male** | 4 | 0.50 | 29 | 3.62 | 39 | 4.87 |
| 21-25 | **female** | 6 | 0.75 | 22 | 2.75 | 57 | 7.12 |
|  | **male** | 17 | 2.12 | 25 | 3.12 | 61 | 7.62 |
| 26-30 | **female** | 6 | 0.75 | 8 | 1.00 | 64 | 7.99 |
|  | **male** | 5 | 0.62 | 10 | 1.25 | 68 | 8.49 |
| 31-35 | **female** | 5 | 0.62 | 21 | 2.62 | 45 | 5.62 |
|  | **male** | 6 | 0.75 | 12 | 1.50 | 34 | 4.24 |
| 36-40 | **female** | 4 | 0.50 | 8 | 1.00 | 40 | 4.99 |
|  | **male** | 2 | 0.25 | 13 | 1.62 | 34 | 4.24 |
| 41-45 | **female** | 1 | 0.12 | 11 | 1.37 | 37 | 4.62 |
|  | **male** | 7 | 0.87 | 11 | 1.37 | 37 | 4.62 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q15 | | | | | |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 8 | 1.00 | 32 | 4.00 | 12 | 1.50 |
|  | **male** | 11 | 1.37 | 41 | 5.12 | 20 | 2.50 |
| 21-25 | **female** | 17 | 2.12 | 49 | 6.12 | 19 | 2.37 |
|  | **male** | 18 | 2.25 | 49 | 6.12 | 36 | 4.49 |
| 26-30 | **female** | 9 | 1.12 | 53 | 6.62 | 16 | 2.00 |
|  | **male** | 14 | 1.75 | 44 | 5.49 | 25 | 3.12 |
| 31-35 | **female** | 10 | 1.25 | 41 | 5.12 | 20 | 2.50 |
|  | **male** | 10 | 1.25 | 26 | 3.25 | 16 | 2.00 |
| 36-40 | **female** | 6 | 0.75 | 31 | 3.87 | 15 | 1.87 |
|  | **male** | 6 | 0.75 | 28 | 3.50 | 15 | 1.87 |
| 41-45 | **female** | 5 | 0.62 | 34 | 4.24 | 10 | 1.25 |
|  | **male** | 10 | 1.25 | 36 | 4.49 | 9 | 1.12 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q16 | | | | | |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 18 | 2.25 | 11 | 1.37 | 23 | 2.87 |
|  | **male** | 20 | 2.50 | 16 | 2.00 | 36 | 4.49 |
| 21-25 | **female** | 19 | 2.37 | 33 | 4.12 | 33 | 4.12 |
|  | **male** | 31 | 3.87 | 32 | 4.00 | 40 | 4.99 |
| 26-30 | **female** | 26 | 3.25 | 22 | 2.75 | 30 | 3.75 |
|  | **male** | 16 | 2.00 | 40 | 4.99 | 27 | 3.37 |
| 31-35 | **female** | 9 | 1.12 | 23 | 2.87 | 39 | 4.87 |
|  | **male** | 10 | 1.25 | 19 | 2.37 | 23 | 2.87 |
| 36-40 | **female** | 11 | 1.37 | 23 | 2.87 | 18 | 2.25 |
|  | **male** | 9 | 1.12 | 20 | 2.50 | 20 | 2.50 |
| 41-45 | **female** | 6 | 0.75 | 14 | 1.75 | 29 | 3.62 |
|  | **male** | 11 | 1.37 | 12 | 1.50 | 32 | 4.00 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q17 | | | | | |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 7 | 0.87 | 32 | 4.00 | 13 | 1.62 |
|  | **male** | 4 | 0.50 | 46 | 5.74 | 22 | 2.75 |
| 21-25 | **female** | 16 | 2.00 | 36 | 4.49 | 33 | 4.12 |
|  | **male** | 9 | 1.12 | 56 | 6.99 | 38 | 4.74 |
| 26-30 | **female** | 6 | 0.75 | 54 | 6.74 | 18 | 2.25 |
|  | **male** | 8 | 1.00 | 55 | 6.87 | 20 | 2.50 |
| 31-35 | **female** | 10 | 1.25 | 33 | 4.12 | 28 | 3.50 |
|  | **male** | 8 | 1.00 | 23 | 2.87 | 21 | 2.62 |
| 36-40 | **female** | 3 | 0.37 | 32 | 4.00 | 17 | 2.12 |
|  | **male** | 6 | 0.75 | 27 | 3.37 | 16 | 2.00 |
| 41-45 | **female** | 2 | 0.25 | 32 | 4.00 | 15 | 1.87 |
|  | **male** | 7 | 0.87 | 25 | 3.12 | 23 | 2.87 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q18 | | | | | |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 9 | 1.12 | 20 | 2.50 | 23 | 2.87 |
|  | **male** | 7 | 0.87 | 38 | 4.74 | 27 | 3.37 |
| 21-25 | **female** | 15 | 1.87 | 41 | 5.12 | 29 | 3.62 |
|  | **male** | 18 | 2.25 | 31 | 3.87 | 54 | 6.74 |
| 26-30 | **female** | 21 | 2.62 | 24 | 3.00 | 33 | 4.12 |
|  | **male** | 18 | 2.25 | 24 | 3.00 | 41 | 5.12 |
| 31-35 | **female** | 15 | 1.87 | 27 | 3.37 | 29 | 3.62 |
|  | **male** | 10 | 1.25 | 23 | 2.87 | 19 | 2.37 |
| 36-40 | **female** | 5 | 0.62 | 18 | 2.25 | 29 | 3.62 |
|  | **male** | 8 | 1.00 | 26 | 3.25 | 15 | 1.87 |
| 41-45 | **female** | 5 | 0.62 | 23 | 2.87 | 21 | 2.62 |
|  | **male** | 9 | 1.12 | 25 | 3.12 | 21 | 2.62 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age Group | Gender | Q19 | | | | | |
|  |  | **Don't Know** | **%age** | **No** | **%age** | **Yes** | **%age** |
| 16-20 | **female** | 7 | 0.87 | 34 | 4.24 | 11 | 1.37 |
|  | **male** | 3 | 0.37 | 60 | 7.49 | 9 | 1.12 |
| 21-25 | **female** | 17 | 2.12 | 48 | 5.99 | 20 | 2.50 |
|  | **male** | 10 | 1.25 | 58 | 7.24 | 35 | 4.37 |
| 26-30 | **female** | 11 | 1.37 | 57 | 7.12 | 10 | 1.25 |
|  | **male** | 8 | 1.00 | 64 | 7.99 | 11 | 1.37 |
| 31-35 | **female** | 15 | 1.87 | 38 | 4.74 | 18 | 2.25 |
|  | **male** | 12 | 1.50 | 25 | 3.12 | 15 | 1.87 |
| 36-40 | **female** | 6 | 0.75 | 35 | 4.37 | 11 | 1.37 |
|  | **male** | 6 | 0.75 | 30 | 3.75 | 13 | 1.62 |
| 41-45 | **female** | 2 | 0.25 | 39 | 4.87 | 8 | 1.00 |
|  | **male** | 8 | 1.00 | 31 | 3.87 | 16 | 2.00 |

**23/9/2022 New Amendments:**

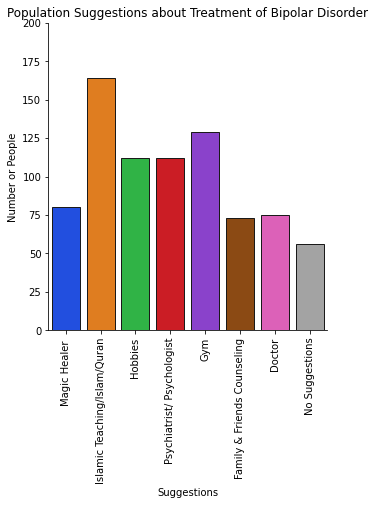
n\_by\_state = df\_shi.groupby(["Suggestion"])["Suggestion"].count()

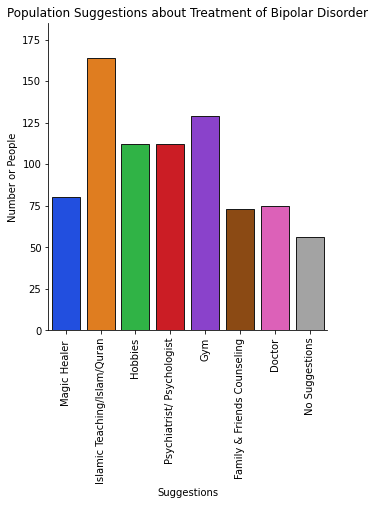
(n\_by\_state/801)\*100

n\_by\_state = df\_shi.groupby(["Suggestion"])["Suggestion"].count()

n\_by\_state

|  |  |  |
| --- | --- | --- |
| **Suggestions** | **No. of People** | **%age** |
| Doctor | 75 | 9.36 |
| Family & Friends Counseling | 73 | 9.11 |
| Gym | 129 | 16.10 |
| Hobbies | 112 | 13.98 |
| Islamic Teaching/Islam/Quran | 164 | 20.47 |
| Magic Healer | 80 | 9.99 |
| No Suggestions | 56 | 6.99 |
| Psychiatrist/Psychologist | 112 | 13.98 |

****

****

sns.catplot(x='Suggestion', kind="count",

            palette="bright", edgecolor=".10",

            data=df\_shi)

plt.title('Population Suggestions about Treatment of Bipolar Disorder')

plt.ylabel('Number or People')

plt.xlabel('Suggestions')

plt.ylim(0,185)

plt.xticks(rotation =90)

# plt.figure(figsize=(500,100))

|  |  |  |
| --- | --- | --- |
| **Gender** | **No. of** **People** | **%age** |
| Male | 414 | 51.68 |
| Female | 387 | 48.31 |
| **Career** |  |  |
| Unemployed | 717 | 89.51 |
| Employed | 48 | 5.99 |
| House Wife | 31 | 3.8 |
| Business | 5 | 0.62 |
| **Education Level** |  |  |
| University | 441 | 55.05 |
| College | 271 | 33.83 |
| School | 85 | 10.61 |
| Islamic Scholar | 4 | 0.49 |
| **Residence Status** |  |  |
| Rural | 355 | 55.68 |
| Urban | 446 | 44.32 |