```
# Importing libraries
  import numpy as np
  import pandas as pd
  import matplotlib.pyplot as plt
  from scipy.stats import skew
  from \ statsmodels. distributions. empirical\_distribution \ import \ ECDF
  import plotly.express as px
  import plotly.figure_factory as ff
  import itertools
  import os
  from google.colab import files
  # Upload dataset to Colab workspace
  uploaded = files.upload()
        Choose files India State...ata RBI.csv

    India_Statewise_Power_Infrastructure_Data_RBI.csv(text/csv) - 24415 bytes, last modified: 06/09/2023 - 100% done

       Saving India_Statewise_Power_Infrastructure_Data_RBI.csv to India_Statewise_Power_Infrastructure_Data_RBI.csv
  os.getcwd()
        '/content
  os.listdir()
        ['.config',
         'India_Statewise_Power_Infrastructure_Data_RBI.csv',
         '.ipynb_checkpoints',
         'sample_data']

▼ Step 2.a

  # Import the dataset into a DataFrame
  power_infra = pd.read_csv('India_Statewise_Power_Infrastructure_Data_RBI.csv')
  power_infra.head()
           State/Union
                                                                                                              Availability_Of_Power_Per_Capita_kiloWatt-
                          Year Power_Requirement_Net_Crore_Units Availability_Of_Power_Net_Crore_Units
                                                                                                                                                            Inst
              Territory
                                                                                                                                                      Hour
               Andaman
                         2004-
        0
             and Nicobar
                            05
                 Islands
                 Andhra
                         2004-
                                                              5042
                                                                                                       5006
                                                                                                                                                     656.9
        1
                Pradesh
                            05
               Arunachal
                        2004-
                                                                 16
                                                                                                          16
                                                                                                                                                     143.9
                Pradesh
                            05
                         2004-
        3
                 Assam
                                                               379
                                                                                                         358
                                                                                                                                                     134.4
                            05
                         2004-
                                                                                                         648
                  Bihar
                                                               720
                                                                                                                                                        78
                            05
  power_infra.shape
        (612, 6)
  # Print the column headers
```

print(power_infra.columns)

dtype='object')

 $Index(['State/Union\ Territory',\ 'Year',\ 'Power_Requirement_Net_Crore_Units',$

'Availability_Of_Power_Net_Crore_Units',
'Availability_Of_Power_Per_Capita_kiloWatt-Hour',

'Installed_Power_Capacity_MegaWatt'],

```
power_infra.columns.values
    'Availability_Of_Power_Net_Crore_Units',
          'Availability_Of_Power_Per_Capita_kiloWatt-Hour',
          'Installed_Power_Capacity_MegaWatt'], dtype=object)
```

▼ Step 2.b

power infra.describe()

	State/Union Territory	Year	Power_Requirement_Net_Crore_Units	Availability_Of_Power_Net_Crore_Units	Availability_Of_Power_Per_Capita_kiloWatt- Hour
count	612	612	612	612	612
unique	36	17	505	509	57€
top	Andaman and Nicobar Islands	2004- 05	24		
freq	17	36	14	10	10

To check for missing values

```
power_infra.isna().sum()
                                # Observation - There are no NaN values in the dataset
      State/Union Territory
                                                                0
                                                                0
      Year
     Power_Requirement_Net_Crore_Units
                                                                0
     Availability_Of_Power_Net_Crore_Units
Availability_Of_Power_Per_Capita_kiloWatt-Hour
                                                                0
                                                                0
      Installed_Power_Capacity_MegaWatt
                                                                a
      dtype: int64
```

▼ To check for duplicate entries

```
power_infra[power_infra.duplicated(keep=False)] # Observation - There are no duplicate values in the dataset
                   Year Power_Requirement_Net_Crore_Units Availability_Of_Power_Net_Crore_Units Availability_Of_Power_Per_Capita_kiloWatt-
       State/Union
                                                                                                                                             Insta
         Territory
```

▼ To remove strings entered in numeric data fields

 ${\tt Installed_Power_Capacity_MegaWatt}$

dtype: object

```
# Check the data types of each field
power_infra.dtypes
# Observation - The last 4 fields should be interger or float.
# However the observed data type 'object' indicates the presence of a likely string data in these numeric attribute fields
     State/Union Territory
                                                             object
     Year
                                                             object
     Power_Requirement_Net_Crore_Units
                                                             object
     Availability_Of_Power_Net_Crore_Units
Availability_Of_Power_Per_Capita_kiloWatt-Hour
                                                            object
```

```
power_infra.iloc[:, 2:].head()
```

object

object

5042

"a.iloc[:, 2].unique()

"2116', '215', '5968', '2180', '400', '814', '363', '3516', '1269', '3481', '9272', '54', '137', '24', '33', '1398', '154', '3339', '2921', '4787', '.', '70', '5202', '463', '2316', '5303', '21', '405', '796', '126', '1301', '254', '135', '2160', '234', '5714', '2379', '430', '927', '403', '3460', '1367', '2', '3685', '10277', '511', '138', '23', '41', '1521', '168', '3568', '3205', '5419', '75', '5568', '516', '2494', '6096', '29', '843', '134', '1406', '292', '160', '2240', '262', '6246', '2625', '514', '1773', '437', '4080', '1502', '3', '3871', '11001', '45', '34', '1710', '181', '3864', '3324', '22', '6150', '80', '5744', '596', '2654', '6414', '39', '482', '916', '145', '1408', '339', '177', '2244', '274', '6875', '2935', '599', '1178', '4032', '1566', '4156', '11489', '53', '162', '38', '1885', '184', '4237', '3674', '6578', '78', '6263', '705', '2902', '7151', '43', '511', '1053', '141', '1487', '3780', '6967', '6921', '784', '3129', '7900', '40', '512', '1159', '1587', '4205', '12190', '56', '171', '48', '2052', '202', '4164', '3780', '6967', '6921', '784', '3129', '7900', '40', '512', '1159', '1587', '4555', '1762', '4318', '12494', '52', '155', '35', '2114', '212', '4573', '4411', '7629', '86', '7593', '892', '3375', '7897', '540', '1238', '152', '1034', '4431', '128', '2563', '315', '7165', '3455', '763', '1357', '620', '5047', '1802', '4444', '12830', '57', '37', '581', '427', '4448', '4231', '1802', '4444', '1280', '57', '37', '581', '427', '4448', '428', '5901, '4844', '12830', '777', '380', '697', '1438', '1249', '52', '1551', '438', '1249', '52', '1551', '438', '1249', '52', '1551', '438', '1249', '52', '1551', '448', '1249', '52', '1551', '448', '1249', '52', '1551', '448', '1249', '52', '1551', '448', '1249', '52', '1551', '355', '3648', '9173', '60', '603', '1431', '157', '1501', '438', '214', '2675', '392', '414', '4979', '4448', '426', '8031', '88', '438', '1249', '5554', '9230', '1111', '9165', '1331', '4210', '566', '551', '754', '1561', '744', '6415', '1251', '15

'4662', '881', '1621', '760', '6264', '2246', '5337', '13490', '71', '46', '69', '2648', '240', '4863', '6572', '9576', '4334', '124', '10318', '1245', '4709', '5044', '63', '876', '2396', '161', '2565', '593', '2963', '10354', '4751', '882', '1657', '774', '6430', '2332', '6238', '14182', '84', '47', '76', '2676', '244', '4969', '6742', '9728', '5025', '10635', '1289', '4736', '5430', '73', '902', '2571', '165', '2375', '602', '3083', '432', '10370', '4889', '883', '1740', '6690', '2430', '6576', '13929', '255', '5310', '6784', '10451', '10757', '1307', '4795', '5838', '910', '2702', '2592', '617', '253', '3183', '412', '10999', '5078', '940', '1881', '791', '6787', '2500', '6993', '14976', '87', '156', '50', '2880', '267', '5481', '7119', '49', '10601', '6032', '260', '12005', '1346', '5076', '6374', '953', '3005', '2613', '632', '256', '3230', '428', '11659', '5367', '1959', '868', '7176', '2503', '7567', '15829', '92', '196', '67', '90', '3181', '276', '5529', '7983', '10938', '6670', '186', '11710', '1385', '5224',

power_infra['Power_Requirement_Net_Crore_Units'].unique()

0 1

#power_infra.iloc[:, 2].unique()

def isfloat(numpy_arr): N = len(numpy_arr)

Installed Power Capaci

656.9

'2503', '7567', '15829', '92', '196', '67', '90', '3181', '276', '5229', '7983', '10938', '6670', '186', '11710', '1385', '5224', '6545', '980', '3163', '173', '3011', '653', '257', '3309', '435', '11394', '5451', '1042', '2003', '894', '7280', '2632', '7617', '15517', '211', '65', '81', '2969', '285', '5678', '8128', '10882', '6831', '12255', '1447', '5295', '6208', '72', '1019', '3417', '3047', '550', '222', '2956', '408', '11162', '5316', '1977', '995', '6885', '2512', '6', '8344', '15068', '97', '203', '83', '2985', '264', '5845', '8531', '10119', '6700', '148', '12437', '1383', '5164'], dtype=object) power_uniq = power_infra.iloc[:, 2:].apply(lambda col: col.unique()) power uniq Power_Requirement_Net_Crore_Units [-, 5042, 16, 379, 720, 116, 1175, 183, 112, 2... Availability_Of_Power_Net_Crore_Units [-, 5006, 16, 358, 648, 115, 1155, 183, 112, 2... Availability_Of_Power_Per_Capita_kiloWatt-Hour [-, 656.9, 143.9, 134.4, 78, 1274.7, 554.5, 82... [65, 10809, 187, 1133, 1644, 79, 1633, 38, 14,... Installed_Power_Capacity_MegaWatt dtype: object # A function to check if the given string represents a decimal number

```
result_bool = np.empty(N, dtype = bool)
  for idx in range(N):
    string = numpy_arr[idx]
    try:
      float(string)
    except ValueError:
      result_bool[idx] = False
    else:
      result_bool[idx] = True
  return result_bool
# Verifying the functioning of isfloat() method
a = np.array(['12345', '4.99', '123ABC', '', '.','-'])
isfloat(a)
     array([ True, True, False, False, False, False])
power_uniq_bool = power_uniq.apply(lambda col: isfloat(col))
power_uniq_bool
     Power_Requirement_Net_Crore_Units
                                                            [False, True, True, True, True, True, True, Tr...
     Availability_Of_Power_Net_Crore_Units
Availability_Of_Power_Per_Capita_kiloWatt-Hour
                                                            [False, True, True, True, True, True, True, Tr...
[False, True, True, True, True, True, True, Tr...
     {\tt Installed\_Power\_Capacity\_MegaWatt}
                                                            [True, True, True, True, True, True, True, True...
     dtype: object
non_num_positions = []
for ind in range(len(power_uniq_bool)):
  col = power_uniq_bool[ind]
  false_pos = np.where(col == False)[0]
  non_num_positions.append(false_pos)
  print(false_pos)
     [ 0 29]
     [ 0 29]
     [ 0 29]
     [31]
non_nums_set = set()
for ind in range(len(non_num_positions)):
  non_num_pos_arr = non_num_positions[ind]
  for non_num_pos in non_num_pos_arr:
    non_nums_set.add(power_uniq[ind][non_num_pos])
print(non_nums_set)
     {'.', '-'}
power_infra.replace({k: 0 for k in non_nums_set}, inplace = True)
power_infra.head()
```

	State/Union Territory	Year	Power_Requirement_Net_Crore_Units	Availability_Of_Power_Net_Crore_Units	Availability_Of_Power_Per_Capita_kiloWatt- Hour	Ins
0	Andaman and Nicobar Islands	2004- 05	0	0	0	
1	Andhra Pradesh	2004- 05	5042	5006	656.9	
2	Arunachal Pradesh	2004- 05	16	16	143.9	
3	Assam	2004- 05	379	358	134.4	
4	Bihar	2004- 05	720	648	78	

power_infra.dtypes

State/Union Territory Year object object

```
Power_Requirement_Net_Crore_Units object
Availability_Of_Power_Net_Crore_Units object
Availability_Of_Power_Per_Capita_kiloWatt-Hour object
Installed_Power_Capacity_MegaWatt object
dtype: object
```

```
power_uniq = power_infra.iloc[:, 2:].apply(lambda col: col.unique())
power_uniq_bool = power_uniq.apply(lambda col: isfloat(col))
if (False in power_uniq_bool) == False:
    print('There are no more symbols in fields which should ideally represent numbers.')
```

There are no more symbols in fields which should ideally represent numbers.

Year Year category
Power_Requirement_Net_Crore_Units int64
Availability_Of_Power_Net_Crore_Units int64
Availability_Of_Power_Per_Capita_kiloWatt-Hour float64
Installed_Power_Capacity_MegaWatt int64
dtype: object

To check for potential outliers

power_infra.describe()

	Power_Requirement_Net_Crore_Units	Availability_Of_Power_Net_Crore_Units	Availability_Of_Power_Per_Capita_kiloWatt- Hour	Installed_Power_Ca
count	612.000000	612.000000	612.000000	
mean	2640.746732	2513.454248	1515.851634	
std	3390.529156	3234.833732	2882.449324	
min	0.000000	0.000000	0.000000	
25%	152.000000	138.000000	408.800000	
50%	982.500000	887.500000	746.250000	
75%	4337.000000	4082.750000	1384.225000	
max	15829.000000	15816.000000	20064.400000	

(Delhi, Power_Requirement_Net_Crore_Units)

(Goa, Power_Requirement_Net_Crore_Units)
ujarat, Power_Requirement_Net_Crore_Units)

ryana, Power_Requirement_Net_Crore_Units)
adesh, Power_Requirement_Net_Crore_Units)
shmir, Power_Requirement_Net_Crore_Units)

ataka, Power_Requirement_Net_Crore_Units)

'cerala, Power_Requirement_Net_Crore_Units'

chand, Power_Requirement_Net_Crore_Units)

Weep, Power_Requirement_Net_Crore_Units)
adesh, Power_Requirement_Net_Crore_Units)
ishtra, Power_Requirement_Net_Crore_Units)
inipur, Power_Requirement_Net_Crore_Units)

aland, Power_Requirement_Net_Crore_Units)
idisha, Power_Requirement_Net_Crore_Units)
:herry, Power_Requirement_Net_Crore_Units)
unjab, Power_Requirement_Net_Crore_Units)
sthan, Power_Requirement_Net_Crore_Units)
sikkim, Power_Requirement_Net_Crore_Units)

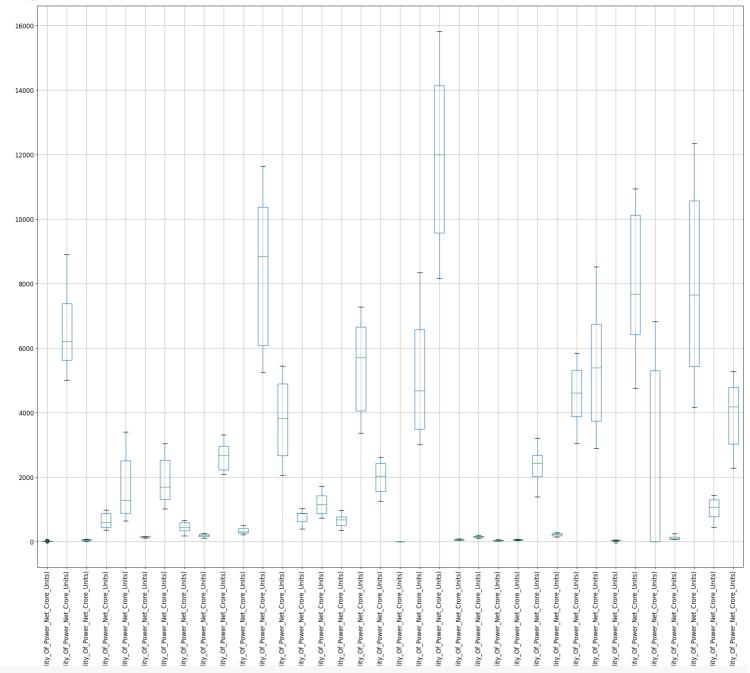
ialaya, Power_Requirement_Net_Crore_Units) :oram, Power_Requirement_Net_Crore_Units) adesh, Power_Requirement_Net_Crore_Units)
thand, Power_Requirement_Net_Crore_Units)
engal, Power_Requirement_Net_Crore_Units)

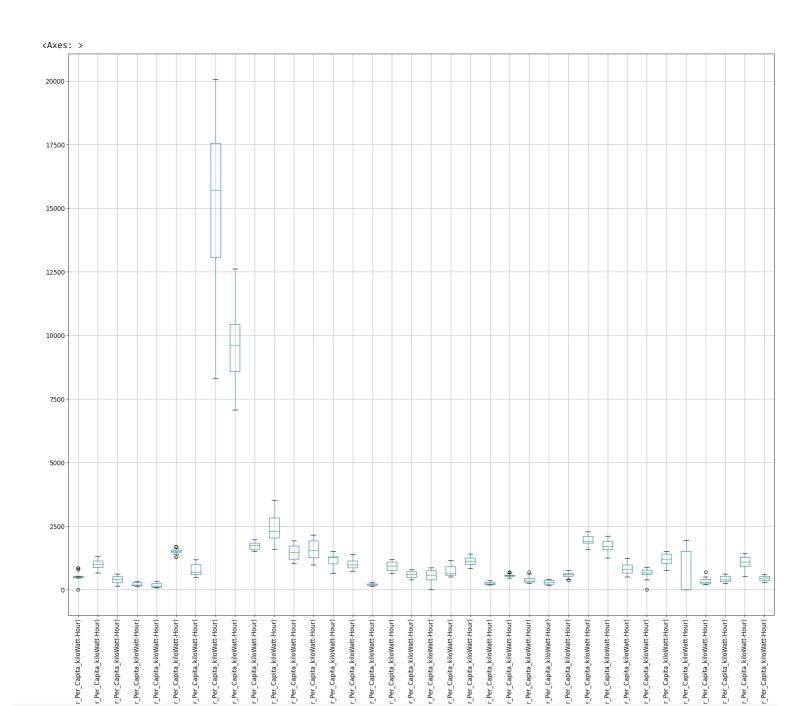
Nadu, Power_Requirement_Net_Crore_Units)
rgana, Power_Requirement_Net_Crore_Units)
ripura, Power_Requirement_Net_Crore_Units)

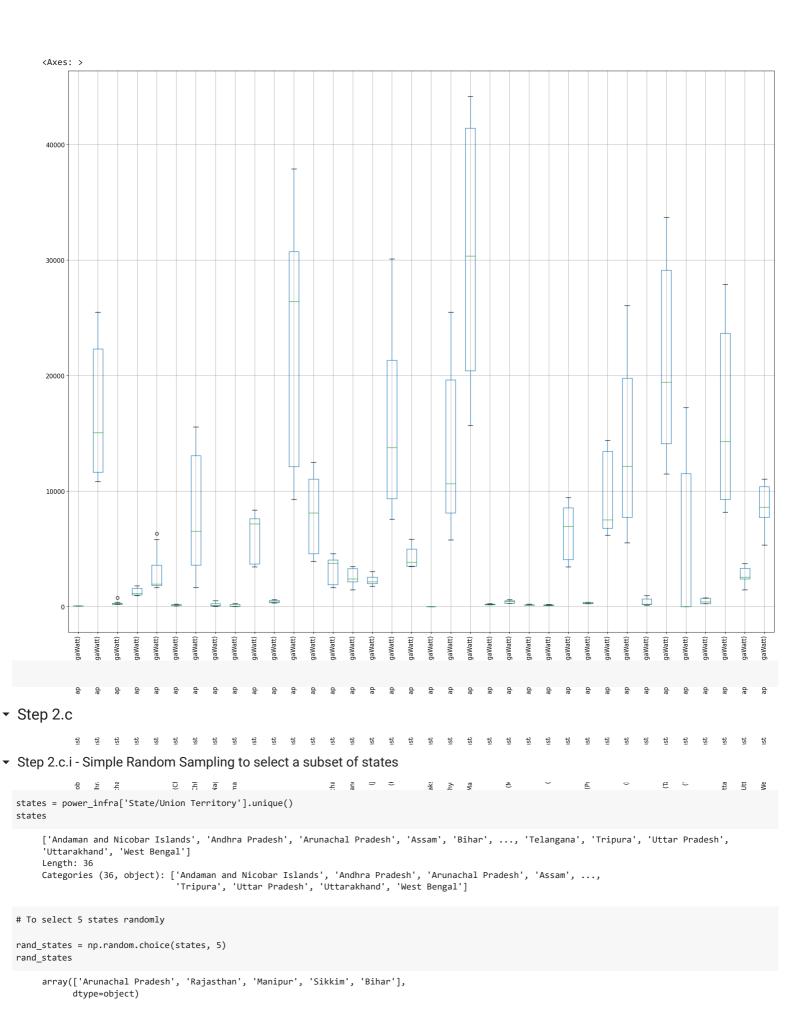
lands, Power_Requirement_Net_Crore_Units) -

adesh, Power_Requirement_Net_Crore_Units)
ssam, Power_Requirement_Net_Crore_Units)
ssam, Power_Requirement_Net_Crore_Units)
ligant, Power_Requirement_Net_Crore_Units)
liganth, Power_Requirement_Net_Crore_Units)
sganth, Power_Requirement_Net_Crore_Units)
laveli, Power_Requirement_Net_Crore_Units)
laveli, Power_Requirement_Net_Crore_Units)
lad Diu, Power_Requirement_Net_Crore_Units)









▼ Step 2.c.ii - Stratified Sampling

The power_infra dataset can be stratified by States or Union Territories based on specific criteria such as power demand or installed capacity.

Advantages:

- 1. Stratified sampling ensures that each subgroup is represented in the sample making the sample more representative of the population as a whole
- 2. It allows for more precise estimates for each stratum, especially when there is significant variation within the strata

Disadvantages:

- · More complex than simple random sampling
- · Selecting the appropriate stratification criteria may be subjective and could introduce bias if not chosen carefully.

▼ Step 2.c.iii - Descriptive Statistics

```
req_avail_data = power_infra.loc[:,['State/Union Territory', 'Power_Requirement_Net_Crore_Units', 'Availability_Of_Power_Net_Crore_Units']]
req_avail_data.head()
            State/Union Territory Power_Requirement_Net_Crore_Units Availability_Of_Power_Net_Crore_Units
                                                                                                                    \overline{\mathbf{m}}
      0 Andaman and Nicobar Islands
                                                                      0
                                                                                                                0
                                                                                                                    ıl.
      1
                     Andhra Pradesh
                                                                   5042
                                                                                                            5006
      2
                  Arunachal Pradesh
                                                                      16
                                                                                                               16
      3
                                                                     379
                                                                                                              358
                             Assam
      4
                              Bihai
                                                                     720
                                                                                                              648
# To compute the mean
req_avail_data.iloc[:,1:].mean(axis = 0)
     Power_Requirement_Net_Crore_Units
                                                2640.746732
     {\tt Availability\_Of\_Power\_Net\_Crore\_Units}
                                                2513,454248
     dtype: float64
# To compute the median
req_avail_data.iloc[:,1:].median(axis = 0)
     Power_Requirement_Net_Crore_Units
                                                982.5
     Availability_Of_Power_Net_Crore_Units
                                                887.5
     dtype: float64
# To compute the standard deviation
req_avail_data.iloc[:,1:].std(axis = 0)
                                                3390.529156
     Power_Requirement_Net_Crore_Units
     Availability_Of_Power_Net_Crore_Units
                                                3234.833732
     dtype: float64
```

Step 2.c.iv - Visualizing distribution of power requirements and availability across states

	and Nicoba	r Islands		Axes(0.	1,0.7	7928	57;0.114286x0	0.10714	13)								
Andhra P	radesh			s(0.23714	3,0.7	7928	57;0.114286x	0.10714	13)								
Arunacha Assam	ıl Pradesh						57;0.114286x0 57;0.114286x0										
Bihar				1	-		57;0.114286x										
Chandiga			Axe	`	•		57;0.114286x		,								
Chhattis	igarh nd Nagar Ha	voli	Λνο				86;0.114286x0 86;0.114286x0										
Daman an	_	VEII		•	-		86;0.114286x0										
Delhi							86;0.114286x										
Goa Gujarat				•	-		86;0.114286x0 86;0.114286x0										
Haryana			AXC				14;0.114286x0										
Himachal							14;0.114286x										
Jammu and Jharkhan	nd Kashmir						14;0.114286x0 14;0.114286x0										
Karnatak				•	-		14;0.114286x0										
Kerala			Axe				14;0.114286x										
Lakshadw Madhya P			۸۷۵				43;0.114286x0 43;0.114286x0										
Maharash				1	-		43;0.114286x										
Manipur				•	-		43;0.114286x										
Meghalay Mizoram	⁄a			•	•		43;0.114286x0 43;0.114286x0										
Nagaland	I		AAC				71;0.114286x										
0disha							71;0.114286x0										
Puducher Punjab	ry						71;0.114286x0 71;0.114286x0										
Rajastha	ın			`	-		71;0.114286x		,								
Sikkim			Axe				71;0.114286x0										
Tamil Na Telangan							15;0.114286x0 15;0.114286x0										
Tripura							15;0.114286x										
Uttar Pr							15;0.114286x0										
West Ben							15;0.114286x0 15;0.114286x0										
dtype: o	•			`					,								
A	Andaman and N	icobar Islands 10000		Andhra Prades	sh	7	Arunachal Pra	_	1000	Assam		Г	Bihar +	+		Chandigarh	I
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	+	8000				60			800				ф ,	160		† H	
20		7000			L			П		Щ	20	000		140		Ϊ Ψ	
10		6000				40			600	Ш			H .	4			
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Power_Requ		froftenvelleinheit_Bree galfit		abilitet Off onew ra and Nagar f	#diroinset		ein			ain Avnitta bilitat (Off Per		_ ۾qre 500 -	irkkvaiteabilitest @frofeev	/diPoiMet_Broo		abiNoot.@fo?oewdenitset Gujarat — —	_Crore_Units
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3000 ·		froftenvelleinheit_Bree galfit		Tabilitat Off Arev a and Nagar	veroitie	7	eirevaite bilitet Of d		250	ai Braitta bilitas (ff ore		Г	i rlekraiten biliteg <u>t (Afr</u> ekrai				_Crore_Units
3000		from well obser exe		PONT OF A	Havener	250			3250 3000 2750	airavaitta billas (Grove		500 -	ingweithop inter Coli chew				_Crore_Units
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3000 - 2500 - 2000 - 1500 - 1000 -		600 500 400 200				250 200 150			250 3000 2750 2500			500 - 400 - 300 -		10000 8000	rei devrites	abiltarjaraewenittet	
3000 - 2500 - 2000 - 1500 - 1000 -		600 500 400 200				250 200 150 r_&eq		ewerotset	3250 3000 2750 2500 2250 _&eeqn			500 - 400 - 300 -		10000 8000	rei devrites		
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▼ Step 2.c.v - Random Variables:

rand_states

rand_state_power_req_avail = power_req_avail_state_grp.filter(lambda x: x.name in rand_states)
rand_state_power_req_avail.head()

	State/Union Territory	Power_Requirement_Net_Crore_Units	Availability_Of_Power_Net_Crore_Units	
2	Arunachal Pradesh	16	16	1
4	Bihar	720	648	
21	Manipur	54	52	
28	Rajasthan	2921	2897	
29	Sikkim	0	0	

Define a new random variable X

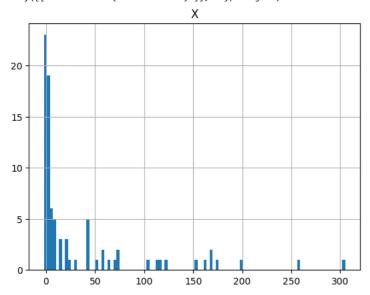
rand_state_power_req_avail['X'] = rand_state_power_req_avail['Power_Requirement_Net_Crore_Units'] - rand_state_power_req_avail['Availability_Of_Power_net_avail['Availability_Of_Power_net_avail]'.

	State/Union Territory	Power_Requirement_Net_Crore_Units	Availability_Of_Power_Net_Crore_Units	X	-
2	Arunachal Pradesh	16	16	0	11.
4	Bihar	720	648	72	
21	Manipur	54	52	2	
28	Rajasthan	2921	2897	24	
29	Sikkim	0	0	0	

Distribution of Column X

rand_state_power_req_avail.hist(column = 'X', bins = 100) # Observation - Multimodal distribution

array([[<Axes: title={'center': 'X'}>]], dtype=object)

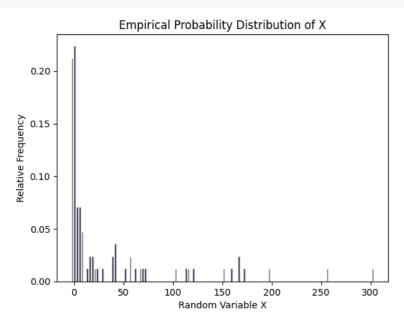


Empirical Probability Distribution of X

Create a histogram
hist, bins = np.histogram(rand_state_power_req_avail['X'], bins=120) # Adjust the bin edges based on your data
Calculate relative frequencies
total_data_points = len(rand_state_power_req_avail)
relative_frequencies = hist / total_data_points

```
# Plot the histogram
plt.bar(bins[:-1], relative_frequencies, width=0.5, align='center', alpha=0.6, color='b', edgecolor='k')
plt.xlabel('Random Variable X')
plt.ylabel('Relative Frequency')
plt.title('Empirical Probability Distribution of X')
plt.show()

print('\n')
emperical_probability_dist = pd.DataFrame({'Value_of_X' : [bins[i] for i in range(len(bins) - 1)], 'Emperical_Probability': [relative_frequencies[i] emperical_probability_dist.head(8)
```



	Value_of_X	Emperical_Probability	
0	-2.000000	0.211765	ıl.
1	0.558333	0.223529	
2	3.116667	0.070588	
3	5.675000	0.070588	
4	8.233333	0.047059	
5	10.791667	0.000000	
6	13.350000	0.011765	
7	15.908333	0.023529	

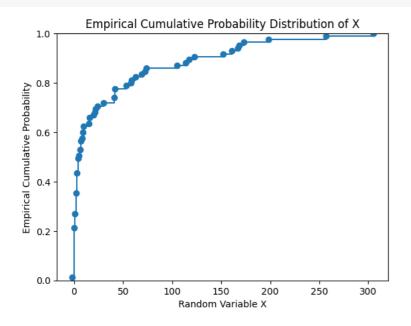
```
# To plot a displot showing Probability density function (pdf) using Kernel Density Estimator (KDE)
fig = ff.create_distplot([rand_state_power_req_avail['X']], group_labels = 'X' , bin_size = 12)
fig.show()
```



Empirical Cumulative Probability Distribution of X

```
Method 1
```

```
\mbox{\# To calculate the empirical cumulative probability distribution of } X
X_col = rand_state_power_req_avail['X']
unique_X = np.sort((X_col).unique())
ecdf_list = []
for value in unique_X:
    \label{eq:cumulative_probability = np.sum(X_col <= value) / len(X_col)} \\
    ecdf_list.append(cumulative_probability)
\ensuremath{\text{\#}} Plot the empirical cumulative distribution
plt.step(unique_X, ecdf_list, where='post', marker='o')
plt.xlabel('Random Variable X')
plt.ylabel('Empirical Cumulative Probability')
plt.title('Empirical Cumulative Probability Distribution of X')
{\tt plt.ylim(0, 1)} \ \ {\tt \# Ensure \ the \ y-axis \ ranges \ from \ 0 \ to \ 1}
plt.show()
print('\n')
emperical_cumul_probability_dist = pd.DataFrame({'Value_of_X' : unique_X, 'Emperical_Probability': [ecdf_list[i] for i in range(len(unique_X))]})
emperical_cumul_probability_dist.head()
```



	Value_of_X	Emperical_Probability	Ш
0	-2	0.011765	ıl.
1	0	0.211765	
2	1	0.270588	
3	2	0.352941	
4	3	0.435294	

Method 2

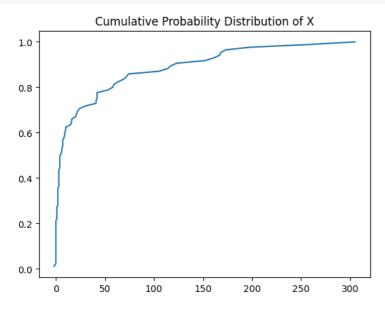
```
# To calculate the empirical cumulative probability distribution of X

ecdf = ECDF(rand_state_power_req_avail['X'])  # Fit a Cumulative Distribution Function
ecdf

<statsmodels.distributions.empirical_distribution.ECDF at 0x7e09b673e350>
```

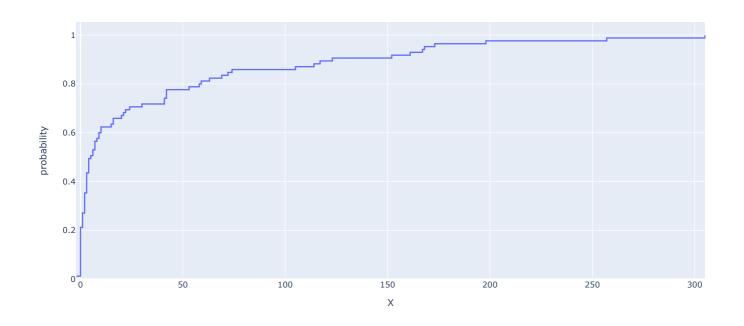
```
# To plot the cdf
plt.plot(ecdf.x, ecdf.y)

plt.title('Cumulative Probability Distribution of X')
plt.xlabel = 'X = Power Requirement - Power Availability '
plt.ylabel = 'Probability'
plt.show()
```



Method 3

```
# To plot the cdf usning interactive plotly
fig = px.ecdf(rand_state_power_req_avail['X'], x='X')
fig.show()
```



▼ Step 2.c.vi - To find probability P(X> 0)

Method 1

```
# Assuming you have already calculated the empirical probability distribution
# You can use the 'relative_frequencies' and 'bins' variables from the previous code

# Find the index of the first positive value in 'bins' (assuming 'bins' is sorted)
first_positive_idx = next((i for i, val in enumerate(bins) if val > 0), None)

# Calculate the probability P(X > 0)
probability_x_greater_than_zero = 1 - np.sum(relative_frequencies[:first_positive_idx])
print('P(X > 0): %.3f' % (probability_x_greater_than_zero))

P(X > 0): 0.788

Method 2

probability_x_greater_than_zero = 1 - ecdf_list[first_positive_idx]
print('P(X > 0): %.3f' % (probability_x_greater_than_zero))
```

▼ Step 2.c.vii - Expectated power requirement

Method 1 - Using histogram

P(X > 0): 0.788

```
from importlib import reload
plt=reload(plt)
# To calculate the empirical probability distribution of power requirement
power_req = rand_state_power_req_avail['Power_Requirement_Net_Crore_Units']
# Create a histogram
hist, bins = np.histogram(power_req, bins=120) # Adjust the bin edges based on your data
# Calculate relative frequencies
total_data_points = len(rand_state_power_req_avail)
relative_frequencies = hist / total_data_points
# Plot the histogram
plt.bar(bins[:-1], relative_frequencies, width=0.5, align='center', alpha=0.6, color='b', edgecolor='k')
plt.xlabel('Random Variable Power_Requirement')
plt.ylabel('Relative Frequency')
plt.title('Empirical Probability Distribution of Power_Requirement')
plt.show()
print('\n')
emperical_probability_dist = pd.DataFrame({'Power_Requirement' : [bins[i] for i in range(len(bins) - 1)], 'Emperical_Probability': [relative_frequenc
emperical_probability_dist.head(8)
```

Empirical Probability Distribution of Power_Requirement

```
0.4 - Relative Eveduency 0.3 - 0.2 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 -
```

```
# Calculate the expected power requirement
# E(X)=\( \Sigma \times \cdot \cdot \P(X=x) \)
expected_power_requirement = 0
for i in range(len(emperical_probability_dist)):
    expected_power_requirement += emperical_probability_dist.iloc[i, 0] * emperical_probability_dist.iloc[i, 1]
expected_power_requirement
```

1463.651960784314

Method 2 - Using Frequency table

Function to find the frequency table for a given column

```
def find_freq_table(df, col):

# Create a frequency table for col in df
frequency_table = df.value_counts().reset_index()
frequency_table.columns = [col, 'Frequency']

# Calculate the total number of entries
total_data_points = len(df)

# Calculate empirical probabilities
frequency_table['Probability'] = frequency_table['Frequency'] / total_data_points

# Sort the table by col
frequency_table = frequency_table.sort_values(by=col)

plt.bar(frequency_table[col], frequency_table['Probability'], width=0.5, align='center', alpha=0.6, color='b', edgecolor='k')
return frequency_table
```

Function to find the expectation of a given column

```
def find_expectation(freq_table):
    # E(X)=\sum x.P(X=x)

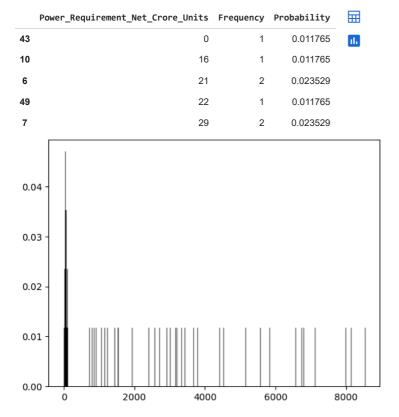
col_names = freq_table.columns
    expected_value = np.sum(freq_table[col_names[0]] * freq_table[col_names[2]])
    return expected_value
```

To find the expected power requirement

```
power_req = rand_state_power_req_avail['Power_Requirement_Net_Crore_Units']

# Create a frequency table for Power_Requirement_Net_Crore_Units
frequency_table = find_freq_table(power_req, 'Power_Requirement_Net_Crore_Units')

# Display the empirical probability distribution
```



```
# Calculate the expected power requirement
expected_power_requirement = find_expectation(frequency_table)
expected_power_requirement
```

1498.2235294117647

▼ Step 2.c.viii - Expectated per capita power availability for all states

```
power_avail_per_cap = power_infra['Availability_Of_Power_Per_Capita_kiloWatt-Hour']

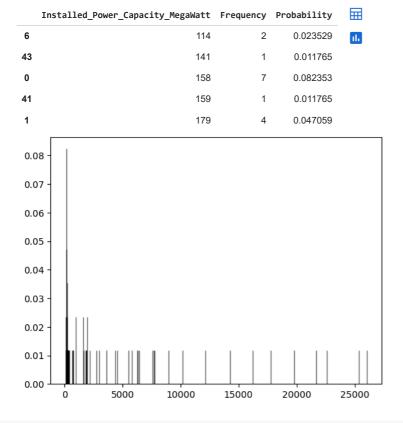
# Create a frequency table for Availability_Of_Power_Per_Capita_kiloWatt-Hour
frequency_table = find_freq_table(power_avail_per_cap, 'Availability_Of_Power_Per_Capita_kiloWatt-Hour')

# Display the empirical probability distribution
print('\n')
pd.DataFrame(frequency_table).head()
```

0 0.0 13 0.021242 386 78.0 1 0.001634 399 87.0 1 0.001634 382 93.3 1 0.001634 305 95.6 1 0.001634 ** Calculate the expected power availability per capita for all states expected_power_avail = find_expectation(frequency_table) expected_power_avail	Availability_Of_Power_Per_	_Capita_kiloWatt-Hour	Frequency	Probability
399 87.0 1 0.001634 382 93.3 1 0.001634 305 95.6 1 0.001634 **Calculate the expected power availability per capita for all states expected_power_avail = find_expectation(frequency_table) expected_power_avail	0	0.0	13	0.021242
382 93.3 1 0.001634 305 95.6 1 0.001634 ** Calculate the expected power availability per capita for all states expected_power_avail = find_expectation(frequency_table) expected_power_avail	386	78.0	1	0.001634
305 95.6 1 0.001634 Calculate the expected power availability per capita for all states expected_power_avail = find_expectation(frequency_table) expected_power_avail	399	87.0	1	0.001634
Calculate the expected power availability per capita for all states expected_power_avail = find_expectation(frequency_table) expected_power_avail	382	93.3	1	0.001634
expected_power_avail = find_expectation(frequency_table) expected_power_avail	305	95.6	1	0.001634
1515.8516339869282 		, , ,	all states	5
Step 2.c.ix - Expectated installed power capacity	1 1			I

▼ Sto

```
0.0100
indexes = rand_state_power_req_avail.index
power_installed = power_infra.loc[indexes, 'Installed_Power_Capacity_MegaWatt']
# Create a frequency table for Power_Requirement_Net_Crore_Units
frequency_table = find_freq_table(power_installed, 'Installed_Power_Capacity_MegaWatt')
# Display the empirical probability distribution
print('\n')
pd.DataFrame(frequency_table).head()
```



```
# Calculate the expected installed power capacity
expected_power_installed = find_expectation(frequency_table)
expected_power_installed
```

Step 2.c.x - Calculate the sample mean and variance of the "Power Requirement Net Crore Units" for states with a population size greater than 1 million.

```
power_infra['Population'] = power_infra['Availability_Of_Power_Net_Crore_Units'] * 1000000 / power_infra['Availability_Of_Power_Per_Capita_kiloWatt-H
print(power_infra.shape, '\n')
power_infra[['State/Union Territory', 'Population']].head()
```

(612, 7)

	Population	State/Union Territory	
ıl.	NaN	Andaman and Nicobar Islands	0
	7.620642e+06	Andhra Pradesh	1
	1.111883e+05	Arunachal Pradesh	2
	2.663690e+06	Assam	3
	8.307692e+06	Bihar	4

```
POPULATION_THRESHOLD = 1000000

filtered_dataset = power_infra[power_infra['Population'] > POPULATION_THRESHOLD]
print(filtered_dataset.shape, '\n')
```

(340, 7)

```
power_req = filtered_dataset['Power_Requirement_Net_Crore_Units']
sample_mean = power_req.mean()
print('Sample Mean:', sample_mean)
Sample Mean: 4600.844117647059
```

```
sample_variance = power_req.var()
print('Sample Variance:', sample_variance)
```

Step 2.c.xi - Calculate the sample mean and variance of the "Power Requirement Net Crore Units" for states with a population size less than 1 million.

```
filtered_dataset = power_infra[~ power_infra.index.isin(filtered_dataset.index)]
print(filtered_dataset.shape, '\n')
filtered_dataset.head()
```

(272, 7)

Sample Variance: 12007710.002177684

	State/Union Territory	Year	Power_Requirement_Net_Crore_Units	Availability_Of_Power_Net_Crore_Units	Availability_Of_Power_Per_Capita_kiloWatt- Hour	Ins
0	Andaman and Nicobar Islands	2004- 05	0	0	0.0	
2	Arunachal Pradesh	2004- 05	16	16	143.9	
5	Chandigarh	2004- 05	116	115	1274.7	
7	Dadra and Nagar Haveli	2004- 05	183	183	8299.7	
8	Daman and Diu	2004- 05	112	112	7073.1	

```
power_req = filtered_dataset['Power_Requirement_Net_Crore_Units']
sample_mean = power_req.mean()
print('Sample Mean:', sample_mean)

Sample Mean: 190.625

sample_variance = power_req.var()
print('Sample Variance:', sample_variance)
Sample Variance: 52160.906826568265
```

▼ Step 2.c.xii - Compute the skewness of the "Availability Of Power Net Crore Units" for all states

```
power_avail = power_infra['Availability_Of_Power_Net_Crore_Units']

skew_avail = skew(power_avail)

print('Skewness for Availability_Of_Power_Net_Crore_Units:', skew_avail)

Skewness for Availability_Of_Power_Net_Crore_Units: 1.5796751778877218
```

Step 2.c.xiii - Calculate the skewness of the "Power Requirement Net Crore Units" for states with a population size greater than 500,000.

Step 2.c.xiv - Stratify the states into three clusters based on their population size: small, medium, and large. Define the thresholds for each cluster.

```
np.min(power_infra['Population'])
5054.334091483447

np.max(power_infra['Population'])
19961251.037918627

# Define population thresholds for each cluster
SMAL_THRESHOLD = 2500000  # 2.5 million
MEDIUM_THRESHOLD = 10000000  # 10 million

# Create a new column 'Population_Category' to store the cluster labels
power_infra['Population_Category'] = 'Small'  # Initialize all as 'Small'

# Update the cluster labels based on population size
power_infra.loc[power_infra['Population'] > SMALL_THRESHOLD, 'Population_Category'] = 'Medium'
power_infra.loc[power_infra['Population'] > MEDIUM_THRESHOLD, 'Population_Category'] = 'Large'

# Print the updated dataset with population categories
power_infra['State/Upion Territory', 'Population', 'Population_Category']].head()
```

	State/Union Territory	Population	Population_Category	
0	Andaman and Nicobar Islands	NaN	Small	ılı
1	Andhra Pradesh	7.620642e+06	Medium	
2	Arunachal Pradesh	1.111883e+05	Small	
3	Assam	2.663690e+06	Medium	

Step 2.c.xv - Calculate the mean, median, and standard deviation of "Power Requirement Net Crore Units" for each cluster

Function for finding mean, median, standard deviation a given column for a cluster

Mean: 4453.621848739495 Median: 4350.0

For large cluster

Sample deviation: 2879.7488335611115

find_cluster_stats('Large', 'Availability_Of_Power_Net_Crore_Units')

```
def find_cluster_stats(pop_category, column):
 filtered_dataset = power_infra[power_infra['Population_Category'] == pop_category]
  power_req_category = filtered_dataset[column]
  print('Mean:', np.mean(power_req_category))
  print('Median:', np.median(power_req_category))
 print('Sample deviation:', np.std(power_req_category))
# For small cluster
find_cluster_stats('Small', 'Power_Requirement_Net_Crore_Units')
     Mean: 571.0741839762611
    Median: 164.0
     Sample deviation: 910.0033148689104
# For medium cluster
find_cluster_stats('Medium', 'Power_Requirement_Net_Crore_Units')
    Mean: 4647.100840336135
    Median: 4608.5
    Sample deviation: 3049.7203533322045
# For large cluster
find_cluster_stats('Large', 'Power_Requirement_Net_Crore_Units')
    Mean: 8585.81081081081
    Median: 9165.0
     Sample deviation: 4713.039031257156
Step 2.c.xvi - Calculate the mean, median, and standard deviation of "Availability Of Power Net Crore Units" for each
cluster.
# For small cluster
find_cluster_stats('Small', 'Availability_Of_Power_Net_Crore_Units')
    Mean: 536.2017804154302
     Median: 158.0
     Sample deviation: 852.3643922686545
# For medium cluster
find_cluster_stats('Medium', 'Availability_Of_Power_Net_Crore_Units')
```

Mean: 8042.486486486487

Median: 7645.0

Sample deviation: 4737.811609214953

Step 2.c.xvii - Create box plots to visualize the distribution of power requirements and availability within each cluster.

Power Requirement distribution in each category



Power Requirement distribution in each category



Step 2.d - Search online for projected population data for the next few years and use it to forecast the expected Power Requirements for each state. If you are making any assumptions for this calculation, state them clearly.

To find the statewise per capita power consumption

```
power_infra['Power_Consumption_Per_Capita'] = power_infra['Power_Requirement_Net_Crore_Units'] / power_infra['Population']
power_consumption_state_grp = power_infra.groupby('State/Union Territory')['Power_Consumption_Per_Capita'].mean()
pd.DataFrame(power_consumption_state_grp.head())
```

		Power_Consumption_Per_Capita	
	State/Union Territory		
	Andaman and Nicobar Islands	0.000718	
	Andhra Pradesh	0.001045	
	Arunachal Pradesh	0.000421	
	Assam	0.000232	
	Bihar	0.000182	

To generate state-wise projected population dataset

	State/Union Territory	Year	Population	
0	Andaman and Nicobar Islands	2021-22	NaN	ıl.
1	Andaman and Nicobar Islands	2022-23	NaN	
2	Andaman and Nicobar Islands	2023-24	NaN	
3	Andaman and Nicobar Islands	2024-25	NaN	
4	Andhra Pradesh	2021-22	NaN	
5	Andhra Pradesh	2022-23	NaN	

projected_populations.to_csv('projected_populations.csv' , index = False)

After entering the projected population data in the downloaded csv file

Source of projected population data -

https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf

```
# Upload dataset to Colab workspace
uploaded = files.upload()

Choose files projected_populations.csv

• projected_populations.csv(text/csv) - 3748 bytes, last modified: 05/10/2023 - 100% done
Saving projected_populations.csv to projected_populations.csv
```

```
# Import the dataset into a DataFrame
projected_populations = pd.read_csv('projected_populations.csv')
```

```
projected_populations['Population'] = projected_populations['Population'] * 100
Year Population
                                                        \blacksquare
     0 Andaman and Nicobar Islands 2021-22
                                                40200
     1 Andaman and Nicobar Islands 2022-23
                                                40300
     2 Andaman and Nicobar Islands 2023-24
                                                40400
     3 Andaman and Nicobar Islands 2024-25
                                                40500
                   Andhra Pradesh 2021-22
                                              5297200
projected_populations_state_grp = projected_populations.groupby('State/Union Territory')
for state in state_list:
  # Retrieve the projected population values for a state from the generated dataset grouped by state
  state_population_values = projected_populations_state_grp.get_group(state)['Population'].reset_index()
  indices = state_population_values['index']
  state_population_values.drop('index', axis = 1, inplace = True)
  population_growth_rate = []
  # Find the population growth rate of the state for the years considered for projection
  for pop_ind in range(len(state_population_values) - 1):
    pop_x = state_population_values.iloc[pop_ind]
    pop_y = state_population_values.iloc[pop_ind + 1]
   population\_growth\_rate.append(float(((pop\_y - pop\_x)/ pop\_x).values))
  # Find the initial forcasted power requirement/demand
  avg_power_consumption_state = power_consumption_state_grp.loc[state]
  first_projected_pop_val = state_population_values.loc[0]
  initial_forcasted_power = float(avg_power_consumption_state * first_projected_pop_val)
  forecasted_power_requirements = [initial_forcasted_power]
  # Find the forcasted power requirement using the population growth rate
  for growth_rate in population_growth_rate:
    prev_forcasted_power_req = forecasted_power_requirements[-1]
    forecasted_power_requirements.append(prev_forcasted_power_req * (1 + growth_rate))
  projected_populations.loc[projected_populations['State/Union Territory'] == state, 'Projected_Power_Req'] = pd.Series(forecasted_power_requirements
```

	State/Union Territory	Year	Population	Projected_Power_Req	\blacksquare				
0	Andaman and Nicobar Islands	2021-22	40200	28.868118	ıl.				
1	Andaman and Nicobar Islands	2022-23	40300	28.939929					
2	Andaman and Nicobar Islands	2023-24	40400	29.011740					
3	Andaman and Nicobar Islands	2024-25	40500	29.083551					
4	Andhra Pradesh	2021-22	5297200	5536.376312					
139	Uttarakhand	2024-25	1187400	1288.596254					
140	West Bengal	2021-22	9860400	4507.482881					
141	West Bengal	2022-23	9908400	4529.425113					
142	West Bengal	2023-24	9956300	4551.321631					
143	West Bengal	2024-25	10004200	4573.218149					
144 rows × 4 columns									

projected_populations