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1 Pakistani Population Analysis

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Description This dataset contains demographic information from the Pakistan Population Census conducted in 2017. It provides detailed population data at various administrative levels within Pakistan, including provinces, divisions, districts, and sub-divisions. The dataset also includes information on urban and rural populations, gender distribution, transgender individuals, sex ratios, population figures from the 1998 census, and annual growth rates.

Features Province: The administrative provinces or regions of Pakistan where the census data was collected.

Division: The divisions within each province. Divisions are the second level of administrative divisions in Pakistan.

District: Districts within each division, representing larger administrative units.

Sub-Division: Sub-divisions or tehsils within each district, providing more localized data.

Area: The land area (in square kilometers) of each sub-division.

Urban Population 2017: The population of urban areas within each sub-division for the year 2017.

Rural Population 2017: The population of rural areas within each sub-division for the year 2017.

Male Population 2017: The male population within each sub-division for the year 2017.

Female Population 2017: The female population within each sub-division for the year 2017.

Transgender Population 2017: The population of transgender individuals within each sub-division for the year 2017.

Sex Ratio 2017: The sex ratio, calculated as the number of females per 1000 males, within each sub-division for the year 2017.

Population in 1998: The total population of each sub-division as recorded in the 1998 census.

Annual Growth Rate: The annual growth rate of the population in each sub-division, calculated as the percentage increase from 1998 to 2017.

Data Source The data in this dataset was collected from official Pakistan Population Census reports and may include data from various government sources. It is essential to provide proper attribution and reference the original sources when using this dataset for analysis or research.

Data Usage Researchers and analysts can use this dataset to explore demographic trends, population growth, urbanization rates, gender distribution, and more within Pakistan at different administrative levels. Ensure compliance with ethical and legal guidelines when using this data for research or public sharing.

2 Purpose of Analysis

tell at the end

```
[2]: #Import the libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
[4]: # import the dataset
df= pd.read_csv("population.csv")
```

3 1. Composition

```
[10]: #Explore the data Composition
#Display first 5 rows
df.head()
```

```
[10]: PROVINCE          DIVISION          DISTRICT          SUB DIVISION \
0  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT  BAHAWALNAGAR TEHSIL
1  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT    CHISHTIAN TEHSIL
2  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT    FORT ABBAS TEHSIL
3  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT    HAROONABAD TEHSIL
4  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT    MINCHINABAD TEHSIL
```

```
      AREA (sq.km)  ALL SEXES (RURAL)  MALE (RURAL)  FEMALE (RURAL) \
0          1729.0          619550          316864          302644
1          1500.0          540342          273788          266500
2          2536.0          361240          182655          178541
3          1295.0          382115          192278          189808
4          1818.0          452723          231506          221178
```

```
      TRANSGENDER (RURAL)  SEX RATIO (RURAL)  ...  POPULATION 1998 (RURAL) \
0              42              104.70  ...              407768
1              54              102.73  ...              395983
2              44              102.30  ...              250959
3              29              101.30  ...              297343
4              39              104.67  ...              316593
```

```
      ANNUAL GROWTH RATE (RURAL)  ALL SEXES (URBAN)  MALE (URBAN) \
```

0	2.22	193840	98391
1	1.65	149424	75546
2	1.93	61528	31360
3	1.33	142600	71345
4	1.90	72294	36694

	FEMALE (URBAN)	TRANSGENDER (URBAN)	SEX RATIO (URBAN) \
0	95402	47	103.13
1	73851	27	102.30
2	30150	18	104.01
3	71236	19	100.15
4	35590	10	103.10

	AVG HOUSEHOLD SIZE (URBAN)	POPULATION 1998 (URBAN) \
0	6.02	133785
1	6.01	102287
2	6.00	34637
3	6.02	84424
4	6.34	37668

	ANNUAL GROWTH RATE (URBAN)
0	1.97
1	2.01
2	3.06
3	2.79
4	3.48

[5 rows x 21 columns]

```
[44]: # max column printing, because data is wrapping in editor
pd.set_option('display.max_columns',None)
pd.set_option('display.max_rows',None)
```

```
[14]: #display first 5 rows of data
df.head()
```

```
[14]: PROVINCE          DIVISION          DISTRICT          SUB DIVISION \
0  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT  BAHAWALNAGAR TEHSIL
1  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT    CHISHTIAN TEHSIL
2  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT    FORT ABBAS TEHSIL
3  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT    HAROONABAD TEHSIL
4  PUNJAB  BAHAWALPUR DIVISION  BAHAWALNAGAR DISTRICT    MINCHINABAD TEHSIL

AREA (sq.km)  ALL SEXES (RURAL)  MALE (RURAL)  FEMALE (RURAL) \
0      1729.0          619550      316864      302644
1      1500.0          540342      273788      266500
2      2536.0          361240      182655      178541
```

3	1295.0	382115	192278	189808
4	1818.0	452723	231506	221178

	TRANSGENDER (RURAL)	SEX RATIO (RURAL)	AVG HOUSEHOLD SIZE (RURAL)	\
0	42	104.70	6.10	
1	54	102.73	6.15	
2	44	102.30	6.32	
3	29	101.30	6.15	
4	39	104.67	6.29	

	POPULATION 1998 (RURAL)	ANNUAL GROWTH RATE (RURAL)	ALL SEXES (URBAN)	\
0	407768	2.22	193840	
1	395983	1.65	149424	
2	250959	1.93	61528	
3	297343	1.33	142600	
4	316593	1.90	72294	

	MALE (URBAN)	FEMALE (URBAN)	TRANSGENDER (URBAN)	SEX RATIO (URBAN)	\
0	98391	95402	47	103.13	
1	75546	73851	27	102.30	
2	31360	30150	18	104.01	
3	71345	71236	19	100.15	
4	36694	35590	10	103.10	

	AVG HOUSEHOLD SIZE (URBAN)	POPULATION 1998 (URBAN)	\
0	6.02	133785	
1	6.01	102287	
2	6.00	34637	
3	6.02	84424	
4	6.34	37668	

	ANNUAL GROWTH RATE (URBAN)
0	1.97
1	2.01
2	3.06
3	2.79
4	3.48

```
[15]: #To display last 5 rows
df.tail()
```

```
[15]: PROVINCE DIVISION DISTRICT \
523 KPK/FATA DERA ISMAIL KHAN DIVISION SOUTH WAZIRISTAN DISTRICT
524 KPK/FATA DERA ISMAIL KHAN DIVISION SOUTH WAZIRISTAN DISTRICT
525 KPK/FATA DERA ISMAIL KHAN DIVISION SOUTH WAZIRISTAN DISTRICT
526 KPK/FATA DERA ISMAIL KHAN DIVISION SOUTH WAZIRISTAN DISTRICT
527 KPK/FATA DERA ISMAIL KHAN DIVISION SOUTH WAZIRISTAN DISTRICT
```

	SUB DIVISION	AREA (sq.km)	ALL SEXES (RURAL)	MALE (RURAL)	\
523	SARAROGHA TEHSIL	813.0	98180	51479	
524	SERWEKAI TEHSIL	398.0	54540	28695	
525	TIARZA TEHSIL	734.0	45156	23649	
526	TOI KHULLA TEHSIL	567.0	50413	27462	
527	WANA TEHSIL	2315.0	153156	81342	

	FEMALE (RURAL)	TRANSGENDER (RURAL)	SEX RATIO (RURAL)	\
523	46694	7	110.25	
524	25844	1	111.03	
525	21507	0	109.96	
526	22947	4	119.68	
527	71796	18	113.30	

	AVG HOUSEHOLD SIZE (RURAL)	POPULATION 1998 (RURAL)	\
523	7.57	72063	
524	7.20	31472	
525	7.99	37708	
526	9.34	36508	
527	10.19	90772	

	ANNUAL GROWTH RATE (RURAL)	ALL SEXES (URBAN)	MALE (URBAN)	\
523	1.64	0	0	
524	2.93	0	0	
525	0.95	0	0	
526	1.71	0	0	
527	2.79	0	0	

	FEMALE (URBAN)	TRANSGENDER (URBAN)	SEX RATIO (URBAN)	\
523	0	0	0.0	
524	0	0	0.0	
525	0	0	0.0	
526	0	0	0.0	
527	0	0	0.0	

	AVG HOUSEHOLD SIZE (URBAN)	POPULATION 1998 (URBAN)	\
523	0.0	0	
524	0.0	0	
525	0.0	0	
526	0.0	0	
527	0.0	0	

	ANNUAL GROWTH RATE (URBAN)
523	0.0
524	0.0
525	0.0

```
526                                0.0
527                                0.0
```

```
[16]: # get info of data
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 528 entries, 0 to 527
Data columns (total 21 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   PROVINCE                             528 non-null    object
1   DIVISION                             528 non-null    object
2   DISTRICT                             528 non-null    object
3   SUB DIVISION                         528 non-null    object
4   AREA (sq.km)                         528 non-null    float64
5   ALL SEXES (RURAL)                    528 non-null    int64
6   MALE (RURAL)                         528 non-null    int64
7   FEMALE (RURAL)                       528 non-null    int64
8   TRANSGENDER (RURAL)                  528 non-null    int64
9   SEX RATIO (RURAL)                    528 non-null    float64
10  AVG HOUSEHOLD SIZE (RURAL)            528 non-null    float64
11  POPULATION 1998 (RURAL)               528 non-null    int64
12  ANNUAL GROWTH RATE (RURAL)            528 non-null    float64
13  ALL SEXES (URBAN)                    528 non-null    int64
14  MALE (URBAN)                         528 non-null    int64
15  FEMALE (URBAN)                       528 non-null    int64
16  TRANSGENDER (URBAN)                  528 non-null    int64
17  SEX RATIO (URBAN)                    528 non-null    float64
18  AVG HOUSEHOLD SIZE (URBAN)            528 non-null    float64
19  POPULATION 1998 (URBAN)               528 non-null    int64
20  ANNUAL GROWTH RATE (URBAN)            528 non-null    float64
dtypes: float64(7), int64(10), object(4)
memory usage: 86.8+ KB
```

```
[17]: # Lets see all columns of columns
df.columns
```

```
[17]: Index(['PROVINCE', 'DIVISION', 'DISTRICT', 'SUB DIVISION', 'AREA (sq.km)',
        'ALL SEXES (RURAL)', 'MALE (RURAL)', 'FEMALE (RURAL)',
        'TRANSGENDER (RURAL)', 'SEX RATIO (RURAL)',
        'AVG HOUSEHOLD SIZE (RURAL)', 'POPULATION 1998 (RURAL)',
        'ANNUAL GROWTH RATE (RURAL)', 'ALL SEXES (URBAN)', 'MALE (URBAN)',
        'FEMALE (URBAN)', 'TRANSGENDER (URBAN)', 'SEX RATIO (URBAN)',
        'AVG HOUSEHOLD SIZE (URBAN)', 'POPULATION 1998 (URBAN)',
        'ANNUAL GROWTH RATE (URBAN)'],
        dtype='object')
```

```
[18]: # lets have a look on data types
df.dtypes # we have already seen this in info()
```

```
[18]: PROVINCE          object
DIVISION            object
DISTRICT            object
SUB DIVISION        object
AREA (sq.km)        float64
ALL SEXES (RURAL)    int64
MALE (RURAL)         int64
FEMALE (RURAL)       int64
TRANSGENDER (RURAL)  int64
SEX RATIO (RURAL)    float64
AVG HOUSEHOLD SIZE (RURAL) float64
POPULATION 1998 (RURAL) int64
ANNUAL GROWTH RATE (RURAL) float64
ALL SEXES (URBAN)    int64
MALE (URBAN)         int64
FEMALE (URBAN)       int64
TRANSGENDER (URBAN)  int64
SEX RATIO (URBAN)    float64
AVG HOUSEHOLD SIZE (URBAN) float64
POPULATION 1998 (URBAN) int64
ANNUAL GROWTH RATE (URBAN) float64
dtype: object
```

```
[25]: # check summary/statistics of data
df.describe().T
```

```
[25]:
```

	count	mean	std	min	\
AREA (sq.km)	528.0	1492.005871	2039.453778	0.0	
ALL SEXES (RURAL)	528.0	246278.011364	271189.816559	0.0	
MALE (RURAL)	528.0	125275.687500	137563.021458	0.0	
FEMALE (RURAL)	528.0	120984.149621	133716.898296	0.0	
TRANSGENDER (RURAL)	528.0	18.174242	25.522248	0.0	
SEX RATIO (RURAL)	528.0	98.982614	26.812660	0.0	
AVG HOUSEHOLD SIZE (RURAL)	528.0	6.277064	2.074947	0.0	
POPULATION 1998 (RURAL)	528.0	167427.994318	178388.976993	0.0	
ANNUAL GROWTH RATE (RURAL)	528.0	3.124792	9.577872	0.0	
ALL SEXES (URBAN)	528.0	140863.528409	351246.279136	0.0	
MALE (URBAN)	528.0	72843.386364	182349.241379	0.0	
FEMALE (URBAN)	528.0	67997.865530	168872.528212	0.0	
TRANSGENDER (URBAN)	528.0	22.276515	66.068127	0.0	
SEX RATIO (URBAN)	528.0	75.411269	49.687341	0.0	
AVG HOUSEHOLD SIZE (URBAN)	528.0	4.406402	2.948336	0.0	
POPULATION 1998 (URBAN)	528.0	80144.566288	202312.019227	0.0	
ANNUAL GROWTH RATE (URBAN)	528.0	1.920814	2.098908	0.0	

	25%	50%	75%	max
AREA (sq.km)	425.000	882.000	1734.2500	18374.00
ALL SEXES (RURAL)	50934.500	165241.000	312911.2500	2297375.00
MALE (RURAL)	27127.250	84134.500	160502.2500	1172995.00
FEMALE (RURAL)	23979.000	82044.000	152219.0000	1124167.00
TRANSGENDER (RURAL)	1.000	10.000	25.0000	213.00
SEX RATIO (RURAL)	101.105	105.285	108.3475	139.38
AVG HOUSEHOLD SIZE (RURAL)	5.700	6.310	7.2000	12.43
POPULATION 1998 (RURAL)	35273.500	117206.500	213054.2500	1044035.00
ANNUAL GROWTH RATE (RURAL)	1.440	2.030	2.8125	100.00
ALL SEXES (URBAN)	0.000	43254.500	117814.7500	3653616.00
MALE (URBAN)	0.000	21980.000	60301.7500	1905921.00
FEMALE (URBAN)	0.000	20999.000	57465.2500	1746900.00
TRANSGENDER (URBAN)	0.000	3.000	19.0000	795.00
SEX RATIO (URBAN)	0.000	103.195	107.0400	297.81
AVG HOUSEHOLD SIZE (URBAN)	0.000	5.755	6.3400	10.06
POPULATION 1998 (URBAN)	0.000	21298.000	65422.2500	2075867.00
ANNUAL GROWTH RATE (URBAN)	0.000	1.855	2.9850	19.78

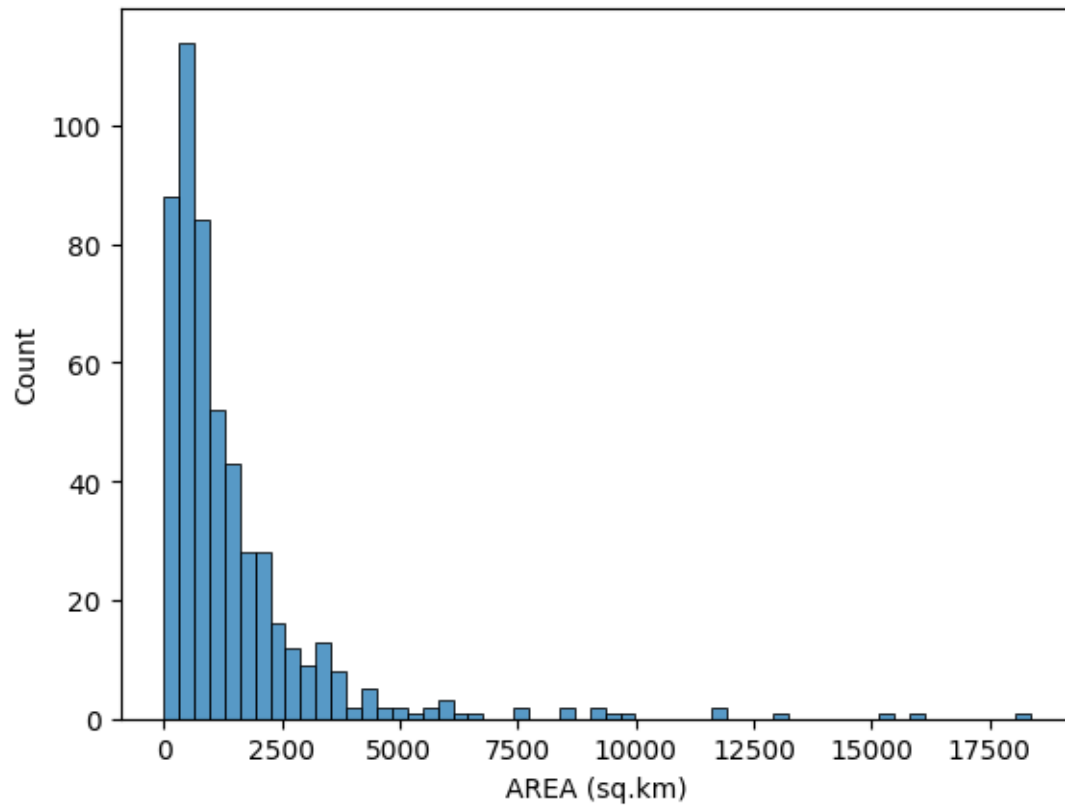
```
[22]: # How many are missing values
df.isnull().sum() # also find in info
```

```
[22]: PROVINCE          0
DIVISION             0
DISTRICT             0
SUB DIVISION         0
AREA (sq.km)         0
ALL SEXES (RURAL)    0
MALE (RURAL)         0
FEMALE (RURAL)       0
TRANSGENDER (RURAL)  0
SEX RATIO (RURAL)    0
AVG HOUSEHOLD SIZE (RURAL)  0
POPULATION 1998 (RURAL)  0
ANNUAL GROWTH RATE (RURAL)  0
ALL SEXES (URBAN)    0
MALE (URBAN)         0
FEMALE (URBAN)       0
TRANSGENDER (URBAN)  0
SEX RATIO (URBAN)    0
AVG HOUSEHOLD SIZE (URBAN)  0
POPULATION 1998 (URBAN)  0
ANNUAL GROWTH RATE (URBAN)  0
dtype: int64
```



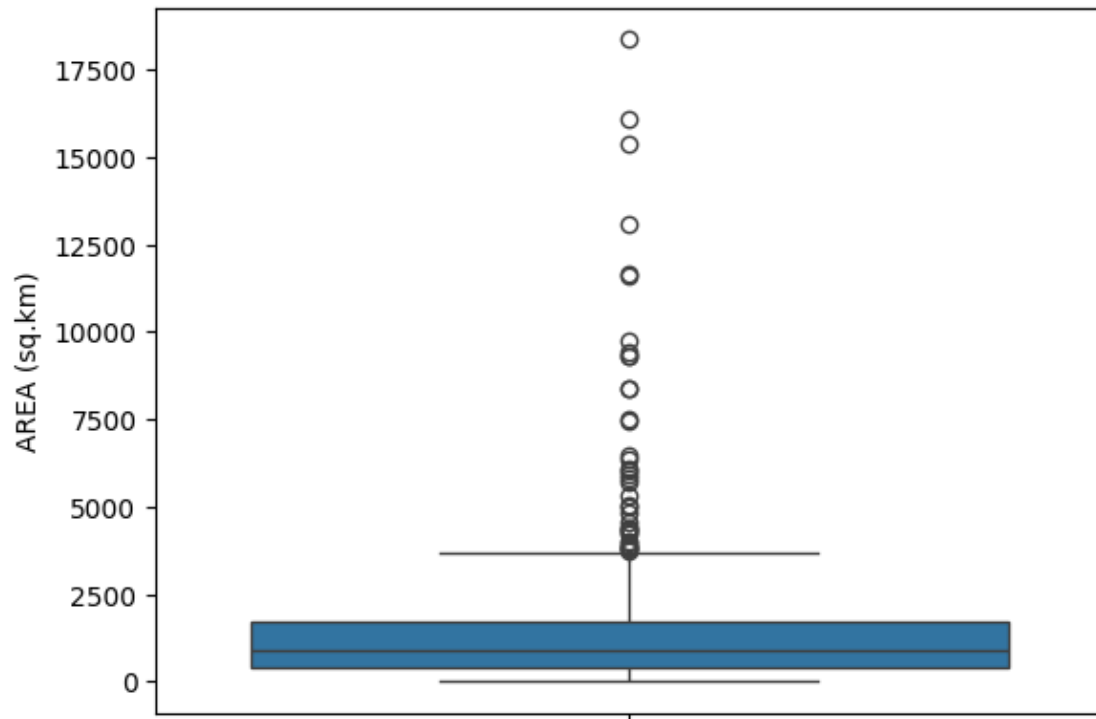
```
[23]: # histogram
sns.histplot(df['AREA (sq.km)'])
```

```
[23]: <Axes: xlabel='AREA (sq.km)', ylabel='Count'>
```



```
[24]: # box plot
sns.boxplot(df['AREA (sq.km)'])
```

```
[24]: <Axes: ylabel='AREA (sq.km)'>
```



```
[29]: sns.boxplot(df, x='PROVINCE', y='ALL SEXES (RURAL)', hue='DISTRICT')
```

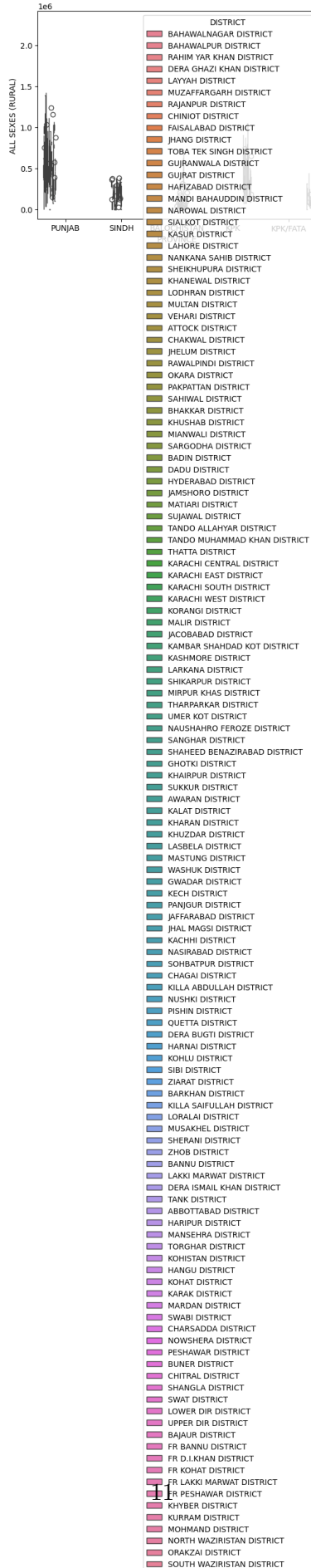
```
[29]: <Axes: xlabel='PROVINCE', ylabel='ALL SEXES (RURAL)'>
```

```
c:\Users\PMLS\AppData\Local\Programs\Python\Python311\Lib\site-
packages\IPython\core\events.py:82: UserWarning: Creating legend with loc="best"
can be slow with large amounts of data.
```

```
    func(*args, **kwargs)
```

```
c:\Users\PMLS\AppData\Local\Programs\Python\Python311\Lib\site-
packages\IPython\core\pylabtools.py:152: UserWarning: Creating legend with
loc="best" can be slow with large amounts of data.
```

```
    fig.canvas.print_figure(bytes_io, **kw)
```



```
[30]: # It is very hard to plot this data so we will use group
# group by on base of division
df['DIVISION'].nunique() # notal 28 unique divisions # unique return names of
↳ these 28 divisions
```

```
[30]: 28
```

```
[35]: len(df) # total rows in data
```

```
[35]: 528
```

```
[36]: df.groupby('DIVISION').size().sort_values() # no of rows in each group
```

```
[36]: DIVISION
Badin Division          5
MARDAN DIVISION         7
SAHIWAL DIVISION        7
KOHAT DIVISION         14
MULTAN DIVISION         14
D.G.KHAN DIVISION       14
HAZARA DIVISION         15
BAHAWALPUR DIVISION     15
DERA ISMAIL KHAN DIVISION 15
BANNU DIVISION          15
Shaheed Benazirabad Division 15
SARGODHA DIVISION       17
FAISALABAD DIVISION     17
LAHORE DIVISION         17
Kalat Division          18
Sukkur Division         18
PESHAWAR DIVISION       18
Mirpurkhas Division     18
Naseerabad Division     19
Zhob Division           19
GUJRANWALA DIVISION     20
Larkana Division        21
RAWALPINDI DIVISION     22
Karachi Division        30
Hyderabad Division     30
MALAKAND DIVISION       33
Makran Division         37
Quetta Division        38
dtype: int64
```

```
[38]: # group division wise and show all sexes in rural area and find mean
df.groupby('DIVISION')['ALL SEXES (RURAL)'].mean()
```

```
[38]: DIVISION
BAHAWALPUR DIVISION      575317.533333
BANNU DIVISION           167286.866667
Badin Division           282922.800000
D.G.KHAN DIVISION        614505.142857
DERA ISMAIL KHAN DIVISION 156810.200000
FAISALABAD DIVISION      526807.764706
GUJRANWALA DIVISION      510698.200000
HAZARA DIVISION          316744.800000
Hyderabad Division      176117.800000
KOHAT DIVISION           179610.571429
Kalat Division           60748.777778
Karachi Division         38016.400000
LAHORE DIVISION          348967.882353
Larkana Division         201900.333333
MALAKAND DIVISION        253212.515152
MARDAN DIVISION          468955.714286
MULTAN DIVISION          632220.785714
Makran Division          42605.432432
Mirpurkhas Division      189710.722222
Naseerabad Division      70283.578947
PESHAWAR DIVISION        317484.111111
Quetta Division          92976.894737
RAWALPINDI DIVISION      266913.772727
SAHIWAL DIVISION         818689.285714
SARGODHA DIVISION        345524.588235
Shaheed Benazirabad Division 255644.266667
Sukkur Division          204646.500000
Zhob Division            70591.842105
Name: ALL SEXES (RURAL), dtype: float64
```

```
[47]: df.groupby(['PROVINCE', 'DIVISION', 'DISTRICT', 'SUB DIVISION'])['ALL SEXES_']
      ↪(RURAL)'].mean()
```

```
[47]: PROVINCE      DIVISION      DISTRICT      SUB
DIVISION
BALOCHISTAN  Kalat Division      KALAT DISTRICT  GAZG
SUB-TEHSIL      5721.0
JOHAN
SUB-TEHSIL      10708.0
KALAT
TEHSIL          92298.0
MANGOCHAR TEHSIL  65678.0
SURAB
```

TEHSIL	165260.0	KHUZDAR DISTRICT	ARANJI
SUB-TEHSIL	42318.0		KARAKH
SUB-TEHSIL	31016.0		KHUZDAR
TEHSIL	117020.0		MOOLA
SUB-TEHSIL	23386.0		NAL
SUB-TEHSIL	97576.0		ORNACH
SUB-TEHSIL	37588.0		SAROONA
SUB-TEHSIL	32125.0		WADH
TEHSIL	77906.0		ZEHRI
TEHSIL	64199.0	MASTUNG DISTRICT	DASHT
TEHSIL	64765.0		KHAD
KOCHA SUB-TEHSIL	38860.0		KIRDGAP
SUB-TEHSIL	28624.0		MASTUNG
TEHSIL	98430.0		AWARAN
Makran Division			
TEHSIL	8584.0	AWARAN DISTRICT	JHAL
GISHKORE SUB-TEHSIL	18390.0		MASHKAI
JAO SUB-TEHSIL	40010.0		GWADAR
TEHSIL	20600.0	GWADAR DISTRICT	JIWANI
TEHSIL	47494.0		ORMARA
TEHSIL	8423.0		PASNI
TEHSIL	7881.0		SUNTSER
TEHSIL	26790.0		
SUB-TEHSIL	10886.0		
BALNIGORE SUB-TEHSIL	44595.0	KECH DISTRICT	BULAIDA

SUB-TEHSIL	37302.0		DASHT
SUB-TEHSIL	76470.0		HOSHAB
SUB-TEHSIL	52947.0		KECH
(TURBAT) TEHSIL	202777.0		MAND
SUB-TEHSIL	50995.0		TUMP
SUB-TEHSIL	97665.0		ZAMORAN
SUB-TEHSIL	42411.0		
		KHARAN DISTRICT	KHARAN
TEHSIL	29315.0		SAR
KHARAN TEHSIL	49393.0		SUB
TEHSIL TOHMULK	32670.0		BELA
		LASBELA DISTRICT	DUREJI
TEHSIL	80124.0		GADDANI
TEHSIL	32686.0		HUB
TEHSIL	16914.0		LAKHRA
TEHSIL	27664.0		LIARI
TEHSIL	35495.0		UTHAL
TEHSIL	11730.0		GICHK
SONMIANI/WINDER TEHSIL	34504.0		GOWARGO
TEHSIL	42867.0		PANJGUR
		PANJGUR DISTRICT	PAROME
SUB-TEHSIL	16646.0		BESIMA
TEHSIL	16329.0		NAG
TEHSIL	178752.0		
TEHSIL	23215.0		
		WASHUK DISTRICT	
SUB-TEHSIL	40266.0		
MASHKHEL SUB-TEHSIL	38634.0		
SUB-TEHSIL	34477.0		

SHAHGORI SUB-TEHSIL	27548.0		
			WASHUK
SUB-TEHSIL	12952.0		
Naseerabad Division		JAFFARABAD DISTRICT	
GANDHAKA TEHSIL	74881.0		
			JHAT
PAT TEHSIL	172149.0		
			USTA
MUHAMMAD TEHSIL	109231.0		
		JHAL MAGSI DISTRICT	GANDAWA
TEHSIL	43365.0		
			JHAL
MAGSI TEHSIL	88279.0		
			MIRPUR
SUB-TEHSIL	9441.0		
		KACHHI DISTRICT	
BALANARI SUB-TEHSIL	43341.0		
			BHAG
TEHSIL	56859.0		
			DHADAR
TEHSIL	27149.0		
			KHATTAN
SUB-TEHSIL	14213.0		
			MACH
SUB-TEHSIL	20489.0		
			SANNI
SUB-TEHSIL	96901.0		
		NASIRABAD DISTRICT	BABA
KOT TEHSIL	49480.0		
			CHATTAR
SUB-TEHSIL	76536.0		
			DERA
MURAD JAMALI TEHSIL	134459.0		
			TAMBOO
TEHSIL	131056.0		
		SOHBATPUR DISTRICT	
FARIDABAD TEHSIL	58204.0		
			SANHRI
TEHSIL	88788.0		
SOHBATPUR TEHSIL	40567.0		
Quetta Division		CHAGAI DISTRICT	CHAGAI
SUB-TEHSIL	58256.0		
DALBANDIN TEHSIL	111203.0		
			NOKUNDI
SUB-TEHSIL	22283.0		
			TAFTAN
SUB-TEHSIL	18510.0		

		DERA BUGTI DISTRICT	BAIKER
SUB-TEHSIL	19497.0		
			DERA
BUGTI TEHSIL	20790.0		
			LOTI
TEHSIL	18058.0		
			MALAM
SUB-TEHSIL	27265.0		
PHELAWAGH TEHSIL	28054.0		
			PIR KOH
SUB-TEHSIL	40629.0		
SANGSILLAH SUB-TEHSIL	10217.0		
			SUI
TEHSIL	48235.0		
		HARNAI DISTRICT	HARNAI
TEHSIL	50753.0		
			KHOAST
SUB-TEHSIL	12279.0		
			SHAHRIK
TEHSIL	9458.0		
		KILLA ABDULLAH DISTRICT	CHAMAN
TEHSIL	311355.0		
			DOBANDI
SUB-TEHSIL	61741.0		
GULISTAN TEHSIL	114984.0		
			KILLA
ABDULLAH TEHSIL	120944.0		
		KOHLU DISTRICT	GRISANI
SUB-TEHSIL	17027.0		
			KAHAN
TEHSIL	73833.0		
			KOHLU
TEHSIL	27709.0		
			MAWAND
TEHSIL	41516.0		
		NUSHKI DISTRICT	NUSHKI
TEHSIL	132551.0		
		PISHIN DISTRICT	
BARSHORE SUB-TEHSIL	103423.0		
			HURRAM
ZAI SUB-TEHSIL	102700.0		
			KAREZAT
SUB-TEHSIL	97469.0		
			PISHIN
TEHSIL	272063.0		
			SARANAN
TEHSIL	18452.0		

PAI SUB-TEHSIL	19011.0	QUETTA DISTRICT	PANJ
CITY TEHSIL	723361.0		QUETTA
SADDAR TEHSIL	527716.0		QUETTA
MANDAI SUB-TEHSIL	7583.0	SIBI DISTRICT	KOT
TEHSIL	44490.0		LEHRI
SUB-TEHSIL	2665.0		SANGAN
TEHSIL	60339.0		SIBI
SUB-TEHSIL	92497.0	ZIARAT DISTRICT	SINJAWI
TEHSIL	64206.0		ZIARAT
Zhob Division		BARKHAN DISTRICT	BARKHAN
TEHSIL	158824.0		BADINI
SUB-TEHSIL	15345.0	KILLA SAIFULLAH DISTRICT	KAN
MEHTARZAI SUB-TEHSIL	33242.0		KILLA
SAIFULLAH TEHSIL	97481.0		LOIBAND
TEHSIL	27962.0		MUSLIM
BAGH TEHSIL	50283.0		SHINKI
SUB-TEHSIL	55326.0		DUKI
TEHSIL	142935.0	LORALAI DISTRICT	MEKHTAR
LORALAI\BORI TEHSIL	148730.0		DRUG
SUB-TEHSIL	40867.0		KINGRI
TEHSIL	37599.0	MUSAKHEL DISTRICT	SHERANI
TEHSIL	31339.0		ASHWAT
MUSAKHEL TEHSIL	84170.0	SHERANI DISTRICT	
TEHSIL	152952.0		
SUB-TEHSIL	20768.0	ZHOB DISTRICT	
KASHATOO SUB-TEHSIL	5184.0		

DIN KAREZ TEHSIL	13831.0		QAMAR
SUB-TEHSIL	17465.0		SAMBAZA
TEHSIL	206942.0		ZHOB
KPK		BANNU DIVISION	BANNU DISTRICT
TEHSIL	908155.0		BANNU
			DOMEL
TEHSIL	208968.0		
MARWAT TEHSIL	519601.0	LAKKI MARWAT DISTRICT	LAKKI
			SARAI
NAURANG TEHSIL	266891.0		
		DERA ISMAIL KHAN DIVISION	DERA ISMAIL KHAN DISTRICT
TEHSIL	124318.0		DARABAN
			DERA
ISMAIL KHAN TEHSIL	507431.0		KULACHI
TEHSIL	77139.0		
PAHARPUR TEHSIL	303520.0		
			PAROA
TEHSIL	252462.0		
		TANK DISTRICT	TANK
TEHSIL	343562.0		
		HAZARA DIVISION	ABBOTTABAD DISTRICT
ABBOTTABAD TEHSIL	737167.0		
			ALLAI
TEHSIL	180502.0		
BATAGRAM TEHSIL	296247.0		
HAVELIAN TEHSIL	301937.0		
		HARIPUR DISTRICT	GHAZI
TEHSIL	144917.0		HARIPUR
TEHSIL	723498.0		
		KOHISTAN DISTRICT	DASSU
TEHSIL	228350.0		KANDIA
TEHSIL	77101.0		PALAS
TEHSIL	276325.0		PATTAN
TEHSIL	202935.0		
		MANSEHRA DISTRICT	BALA
KOT TEHSIL	273257.0		
MANSEHRA TEHSIL	872623.0		OGHI

TEHSIL	264964.0	TORGHAR DISTRICT	JUDBA
TEHSIL	96888.0		KHANDER
TEHSIL	74461.0	HANGU DISTRICT	HANGU
TEHSIL	221598.0		TALL
TEHSIL	194711.0	KARAK DISTRICT	BANDA
DAUD SHAH TEHSIL	155482.0		KARAK
TEHSIL	241743.0		TAKHT-
E-NASRATI TEHSIL	257051.0	KOHAT DISTRICT	KOHAT
TEHSIL	620442.0		LACHI
TEHSIL	102059.0	BUNER DISTRICT	DAGGAR
TEHSIL	354809.0		GAGRA
TEHSIL	269971.0		KHADO
KHEL TEHSIL	118072.0		MANDANR
TEHSIL	152608.0	CHITRAL DISTRICT	CHITRAL
TEHSIL	228548.0		MASTUJ
TEHSIL	169297.0	LOWER DIR DISTRICT	ADENZAI
TEHSIL	317526.0		LAL
QILA TEHSIL	219567.0		
SAMARBAGH TEHSIL	378004.0		
TEMERGARA TEHSIL	480671.0	SHANGLA DISTRICT	ALPURI
TEHSIL	508361.0		BISHAM
TEHSIL	105950.0		PURAN
TEHSIL	145298.0	SWAT DISTRICT	BABUZAI
TEHSIL	267947.0		BARIKOT
TEHSIL	89758.0		

TEHSIL	186533.0		BEHRAIN
CHARBAGH TEHSIL	126001.0		
TEHSIL	302028.0		KABAL
KHAWAZAKHELA TEHSIL	217484.0		
TEHSIL	423052.0		MATTA
		UPPER DIR DISTRICT	DIR
TEHSIL	395425.0		
MALAKAND PROTECTED AREA	650120.0		
			SAM
RANI ZAI TEHSIL	303644.0		
SHARINGAL TEHSIL	185121.0		
			SWAT
RANI ZAI TEHSIL	346476.0		
			WARI
TEHSIL	322755.0		
MARDAN DIVISION		MARDAN DISTRICT	KATLANG
TEHSIL	343225.0		
			MARDAN
TEHSIL	1043978.0		
			TAKHT
BHAI TEHSIL	545974.0		
		SWABI DISTRICT	LAHOR
TEHSIL	264463.0		
			RAZAR
TEHSIL	558662.0		
			SWABI
TEHSIL	250916.0		
			TOPI
TEHSIL	275472.0		
PESHAWAR DIVISION		CHARSADDA DISTRICT	
CHARSADDA TEHSIL	659042.0		
SHABQADAR TEHSIL	288462.0		
			TANGI
TEHSIL	393252.0		
		NOWSHERA DISTRICT	
JEHANGIRA TEHSIL	267642.0		
			PABBI
TEHSIL	383046.0		
		PESHAWAR DISTRICT	
PESHAWAR TEHSIL	2297375.0		
KPK/FATA BANNU DIVISION		FR BANNU DISTRICT	FR
BANNU	43112.0		
		FR LAKKI MARWAT DISTRICT	FR
LAKKI MARWAT	26394.0		

		NORTH WAZIRISTAN DISTRICT	DATTA
KHEL TEHSIL	75003.0		
			DOSSALI
TEHSIL	39945.0		
			GHARYUM
TEHSIL	11811.0		
			GHULAM
KHAN TEHSIL	27015.0		
			MIR ALI
TEHSIL	184986.0		
			MIRAN
SHAH TEHSIL	96280.0		
			RAZMAK
TEHSIL	15681.0		
			SHEWA
TEHSIL	39290.0		
			SPINWAM
TEHSIL	46171.0		
DERA ISMAIL KHAN DIVISION		FR D.I.KHAN DISTRICT	FR
D.I.KHAN	68506.0		
		SOUTH WAZIRISTAN DISTRICT	BIRMIL
TEHSIL	104282.0		
			LADHA
TEHSIL	110842.0		
			MAKIN
TEHSIL	58646.0		
SARAROGHA TEHSIL	98180.0		
SERWEKAI TEHSIL	54540.0		
			TIARZA
TEHSIL	45156.0		
			TOI
KHULLA TEHSIL	50413.0		
			WANA
TEHSIL	153156.0		
KOHAT DIVISION		FR KOHAT DISTRICT	FR
KOHAT	118839.0		
		KURRAM DISTRICT	LOWER
KURRAM TEHSIL	101386.0		
			UPPER
KURRAM TEHSIL	246934.0		
		ORAKZAI DISTRICT	CENTRAL
TEHSIL	59132.0		
			ISMAIL
ZAI TEHSIL	23963.0		
			LOWER
TEHSIL	107323.0		
			UPPER

TEHSIL	63885.0		
	MALAKAND DIVISION	BAJAUR DISTRICT	BAR
CHAMER KAND TEHSIL	2868.0		BARANG
TEHSIL	76493.0		KHAR
BAJAUR TEHSIL	246875.0		MAMUND
TEHSIL	311373.0		NAWAGAI
TEHSIL	78494.0		
SALARZAI TEHSIL	267636.0		UTMAN
KHEL TEHSIL	107248.0		
	PESHAWAR DIVISION	FR PESHAWAR DISTRICT	FR
PESHAWAR	64761.0		
		KHYBER DISTRICT	BARA
TEHSIL	443449.0		JAMRUD
TEHSIL	163829.0		LANDI
KOTAL TEHSIL	239323.0		MULLA
GORI TEHSIL	40188.0		
		MOHMAND DISTRICT	AMBAR
UTMAN KHEL TEHSIL	61951.0		HALIM
ZAI TEHSIL	78705.0		
PINDIALI TEHSIL	89711.0		PRANG
GHAR TEHSIL	36569.0		SAFI
TEHSIL	98501.0		UPPER
MOHMAND TEHSIL	51154.0		YAKE
GHUND TEHSIL	57754.0		
PUNJAB	BAHAWALPUR DIVISION	BAHAWALNAGAR DISTRICT	
BAHAWALNAGAR TEHSIL	619550.0		
CHISHTIAN TEHSIL	540342.0		FORT
ABBAS TEHSIL	361240.0		
HAROONABAD TEHSIL	382115.0		
MINCHINABAD TEHSIL	452723.0		
		BAHAWALPUR DISTRICT	
AHMADPUR EAST TEHSIL	902476.0		
BAHAWALPUR CITY TEHSIL	0.0		

BAHAWALPUR SADDAR TEHSIL	467938.0		
HASILPUR TEHSIL	340747.0		
KHAIRPUR TAMEWALI TEHSIL	221431.0		
TEHSIL	564422.0		YAZMAN
		RAHIM YAR KHAN DISTRICT	KHANPUR
TEHSIL	749218.0		
LIAQUATPUR TEHSIL	982018.0		
			RAHIM
YAR KHAN TEHSIL	1045577.0		
SADIQABAD TEHSIL	999966.0		
D.G.KHAN DIVISION		DERA GHAZI KHAN DISTRICT	DE-
EXCLUDED AREA D.G KHAN	212652.0		
			DERA
GHAZI KHAN TEHSIL	827602.0		
			KOT
CHHUTTA TEHSIL	705564.0		
			TAUNSA
TEHSIL	580592.0		
		LAYYAH DISTRICT	
CHOUBARA TEHSIL	204169.0		
			LAYYAH
TEHSIL	783612.0		
		MUZAFFARGARH DISTRICT	ALIPUR
TEHSIL	595880.0		
			JATOI
TEHSIL	555795.0		
			KOT
ADDU TEHSIL	1093354.0		
MUZAFFARGARH TEHSIL	1385109.0		
		RAJANPUR DISTRICT	DE-
EXCLUDED AREA RAJANPUR	34191.0		
			JAMPUR
TEHSIL	739299.0		
RAJANPUR TEHSIL	494109.0		
			ROJHAN
TEHSIL	391144.0		
FAISALABAD DIVISION		CHINIOT DISTRICT	BHAWANA
TEHSIL	339754.0		
			CHINIOT
TEHSIL	277268.0		
			LALIAN
TEHSIL	329407.0		
		FAISALABAD DISTRICT	CHAK
JHUMRA TEHSIL	284170.0		
FAISALABAD CITY TEHSIL	34101.0		
FAISALABAD SADAR TEHSIL	1425154.0		

JARANWALA TEHSIL	1267317.0		
SAMMUNDRI TEHSIL	486176.0		
TANDLIAN WALA TEHSIL	618660.0		
		JHANG DISTRICT	
18-HAZARI TEHSIL	268160.0		
AHMADPUR SIAL TEHSIL	365900.0		
			JHANG
TEHSIL	1035377.0		
			SHORKOT
TEHSIL	474764.0		
		TOBA TEK SINGH DISTRICT	GOJRA
TEHSIL	482391.0		KAMALIA
TEHSIL	236336.0		
PIRMAHAL TEHSIL	378026.0		
			TOBA
TEK SINGH TEHSIL	652771.0		
GUJRANWALA DIVISION		GUJRANWALA DISTRICT	
GUJRANWALA CITY TEHSIL	73890.0		
GUJRANWALA SADDAR TEHSIL	641189.0		
			KAMOKE
TEHSIL	330876.0		
NOWSHERA VIRKAN TEHSIL	485434.0		
WAZIRABAD TEHSIL	530559.0		
		GUJRAT DISTRICT	GUJRAT
TEHSIL	954998.0		
			KHARIAN
TEHSIL	781334.0		
			SARAI
ALAMGIR TEHSIL	192457.0		
		HAFIZABAD DISTRICT	
HAFIZABAD TEHSIL	400049.0		
			PINDI
BHATTIAN TEHSIL	354176.0		
		MANDI BAHAUDDIN DISTRICT	
MALAKWAL TEHSIL	328748.0		
			MANDI
BAHAUDDIN TEHSIL	451306.0		
			PHALIA
TEHSIL	487627.0		
		NAROWAL DISTRICT	NAROWAL
TEHSIL	460844.0		
SHAKARGARH TEHSIL	590387.0		
ZAFARWAL TEHSIL	399687.0		
		SIALKOT DISTRICT	DASKA
TEHSIL	643101.0		
			PASRUR

TEHSIL	719133.0		
SAMBRIAL TEHSIL	272882.0		SIALKOT
TEHSIL	1115287.0		
LAHORE DIVISION		KASUR DISTRICT	CHUNIAN
TEHSIL	663615.0		KASUR
TEHSIL	845004.0		KOT
RADHA KISHAN TEHSIL	301629.0		PATTOKI
TEHSIL	753853.0		
		LAHORE DISTRICT	LAHORE
CANTT TEHSIL	0.0		LAHORE
CITY TEHSIL	0.0		MODEL
TOWN TEHSIL	0.0		RAIWIND
TEHSIL	0.0		
SHALIMAR TEHSIL	0.0		
		NANKANA SAHIB DISTRICT	NANKANA
SAHIB TEHSIL	773871.0		SANGLA
HILL TEHSIL	166106.0		SHAH
KOT TEHSIL	169885.0		
		SHEIKHUPURA DISTRICT	
FEROZEWALA TEHSIL	510209.0		MURIDKE
TEHSIL	426737.0		
SAFDARABAD TEHSIL	218751.0		SHARAK
PUR TEHSIL	155574.0		
SHEIKHUPURA TEHSIL	947220.0		
MULTAN DIVISION		KHANEWAL DISTRICT	
JAHANIAN TEHSIL	299779.0		
KABIRWALA TEHSIL	809002.0		
KHANEWAL TEHSIL	585160.0		MIAN
CHANNU TEHSIL	639860.0		
		LODHRAN DISTRICT	
DUNYAPUR TEHSIL	453663.0		KAHROR
PACCA TEHSIL	394678.0		LODHRAN
TEHSIL	585751.0		

		MULTAN DISTRICT	
JALALPUR PIRWALA TEHSIL	487518.0		MULTAN
CITY TEHSIL	432114.0		MULTAN
SADDAR TEHSIL	1238708.0		
SHUJABAD TEHSIL	528906.0		
		VEHARI DISTRICT	
BUREWALA TEHSIL	787629.0		MAILSI
TEHSIL	825158.0		VEHARI
TEHSIL	783165.0		
RAWALPINDI DIVISION		ATTOCK DISTRICT	ATTOCK
TEHSIL	222710.0		FATEH
JANG TEHSIL	259933.0		HASAN
ABDAL TEHSIL	153891.0		HAZRO
TEHSIL	284881.0		JAND
TEHSIL	247319.0		PINDI
GHEB TEHSIL	226736.0		
		CHAKWAL DISTRICT	CHAKWAL
TEHSIL	518313.0		CHOA
SAIDAN SHAH TEHSIL	119368.0		KALLAR
KAHAR TEHSIL	126096.0		LAWA
TEHSIL	110175.0		TALA
GANG TEHSIL	337903.0		DINA
		JHELMUM DISTRICT	JHELMUM
TEHSIL	165222.0		PIND
TEHSIL	254761.0		SOHAWA
DADAN KHAN TEHSIL	272443.0		
TEHSIL	175680.0		
		RAWALPINDI DISTRICT	GUJAR
KHAN TEHSIL	566018.0		KAHUTA
TEHSIL	160136.0		

SAYADDAN TEHSIL	162822.0		KALLAR
SATTIAN TEHSIL	96894.0		KOTLI
TEHSIL	75974.0		MURREE
RAWALPINDI TEHSIL	1158817.0		
TEHSIL	176011.0		TAXILA
SAHIWAL DIVISION		OKARA DISTRICT	
DEPALPUR TEHSIL	1033260.0		OKARA
TEHSIL	760440.0		RENALA
KHURD TEHSIL	404562.0		ARIF
WALA TEHSIL	742723.0	PAKPATTAN DISTRICT	
PAKPATTAN TEHSIL	792513.0		
CHICHAWATNI TEHSIL	929447.0	SAHIWAL DISTRICT	
TEHSIL	1067880.0		SAHIWAL
SARGODHA DIVISION		BHAKKAR DISTRICT	
TEHSIL	571132.0		BHAKKAR
KHAN TEHSIL	280006.0		DARYA
KOT TEHSIL	294310.0		KALUR
TEHSIL	242750.0		MANKERA
TEHSIL	392143.0	KHUSHAB DISTRICT	
TEHSIL	223051.0		NOORPUR
NOWSHERA TEHSIL	103603.0		
QUAIDABAD TEHSIL	208615.0		
TEHSIL	289633.0	MIANWALI DISTRICT	ISAKHEL
MIANWALI TEHSIL	618946.0		
TEHSIL	306210.0		PIPLAN
TEHSIL	234249.0	SARGODHA DISTRICT	BHALWAL
TEHSIL	254416.0		BHERA
MOMIN TEHSIL	386479.0		KOT

SARGODHA TEHSIL	876944.0		SHAHPUR
TEHSIL	284663.0		
SILLANWALI TEHSIL	306768.0		
SINDH	Badin Division	BADIN DISTRICT	BADIN
TALUKA	322957.0		
GOLARCHI (S.F.RAHU) TALUKA	281087.0		
			MATLI
TALUKA	346413.0		
			TALHAR
TALUKA	123329.0		
			TANDO
BAGO TALUKA	340828.0		
	Hyderabad Division	DADU DISTRICT	DADU
TALUKA	279085.0		
			JOHI
TALUKA	265358.0		
KHAIRPUR NATHAN SHAH TALUKA	262064.0		
			MEHAR
TALUKA	360477.0		
		HYDERABAD DISTRICT	
HYDERABAD CITY TALUKA	0.0		
HYDERABAD TALUKA	373410.0		
LATIFABAD TALUKA	0.0		
QASIMABAD TALUKA	0.0		
		JAMSHORO DISTRICT	KOTRI
TALUKA	145932.0		
MANJHAND TALUKA	119570.0		
			SEHWAN
TALUKA	165467.0		
			THANO
BULA KHAN TALUKA	130318.0		
		MATIARI DISTRICT	HALA
TALUKA	144167.0		
			MATIARI
TALUKA	297950.0		
SAEEDABAD TALUKA	145254.0		
		SUJAWAL DISTRICT	CHAMBER
TALUKA	174017.0		
			JATI
TALUKA	189707.0		
			MIRPUR
BATHORO TALUKA	190520.0		
			SHAH
BUNDER TALUKA	142021.0		
			SUJAWAL
TALUKA	161083.0		

SHAH KARIM TALUKA	230630.0	TANDO ALLAHYAR DISTRICT	BULRI
MARI TALUKA	223171.0		JHANDO
ALLAHYAR TALUKA	173240.0		TANDO
GHORABARI TALUKA	150844.0	TANDO MUHAMMAD KHAN DISTRICT	
GHULAM HYDER TALUKA	150895.0		TANDO
MUHAMMAD KHAN TALUKA	153536.0		TANDO
TEHSIL	0.0	THATTA DISTRICT	GULBERG
BUNDER TALUKA	55429.0		KETI
SAKRO TALUKA	294561.0		MIRPUR
TALUKA	304828.0		THATTA
Karachi Division		KARACHI CENTRAL DISTRICT	
FEROZABAD TEHSIL	0.0		
LIAQUATABAD TEHSIL	0.0		
NAZIMABAD TEHSIL	0.0		
KARACHI TEHSIL	0.0		NEW
NAZIMABAD TEHSIL	0.0		NORTH
BAGH TEHSIL	0.0	KARACHI EAST DISTRICT	ARAM
GULSHAN-E-IQBAL TEHSIL	0.0		
E-HIJRI TEHSIL	0.0		GULZAR-
QUARTERS TEHSIL	0.0		JAMSHED
TEHSIL	0.0	KARACHI SOUTH DISTRICT	BALDIA
LINES TEHSIL	0.0		CIVIL
TEHSIL	0.0		GARDEN
TEHSIL	0.0		LYARI
TEHSIL	0.0		SADDAR
TEHSIL	0.0	KARACHI WEST DISTRICT	HARBOUR

			KORANGI
TEHSIL	0.0		
MANGHOPIR TEHSIL	160904.0		
MAURIPUR TEHSIL	121954.0		
MOMINABAD TEHSIL	0.0		
			ORANGI
TEHSIL	0.0		
			SITE
TEHSIL	0.0		
		KORANGI DISTRICT	AIRPORT
TEHSIL	0.0		
			LANDHI
TEHSIL	0.0		
			MODEL
COLONY TEHSIL	0.0		
			SHAH
FAISAL TEHSIL	0.0		
		MALIR DISTRICT	BIN
QASIM TEHSIL	248098.0		
			GADAP
TEHSIL	64153.0		
			IBRAHIM
HYDRI TEHSIL	385776.0		
			MURAD
MEMON TEHSIL	129761.0		
			SHAH
MUREED TEHSIL	29846.0		
Larkana Division		JACOBABAD DISTRICT	GARHI
KHAIRO TALUKA	146400.0		
JACOBABAD TALUKA	191480.0		
			THUL
TALUKA	371911.0		
		KAMBAR SHAHDAD KOT DISTRICT	KAMBAR
ALI KHAN TALUKA	292404.0		
			MIRO
KHAN TALUKA	115622.0		
NASIRABAD TALUKA	113591.0		
			QUBO
SAEED KHAN TALUKA	58144.0		
			SHAHDAD
KOT TALUKA	83629.0		
			SUJAWAL
JUNEJO TALUKA	117467.0		
			WARAH
TALUKA	160375.0		
		KASHMORE DISTRICT	
KANDHKOT TALUKA	229942.0		

KASHMORE TALUKA	343986.0		
TANGWANI TALUKA	262749.0		
		LARKANA DISTRICT	BAKRANI
TALUKA	196995.0		DOKRI
TALUKA	162757.0		LARKANA
TALUKA	247204.0		
RATODERO TALUKA	215932.0	SHIKARPUR DISTRICT	GARHI
YASIN TALUKA	280636.0		KHANPUR
TALUKA	251221.0		LAKHI
TALUKA	201329.0		
SHIKARPUR TALUKA	196133.0		
Mirpurkhas Division		MIRPUR KHAS DISTRICT	DIGRI
TALUKA	140304.0		HUSSAIN
BUX MARI TALUKA	150226.0		JHUDO
TALUKA	142462.0		KOT
GHULAM MUHAMMAD TALUKA	244090.0		MIRPUR
KHAS TALUKA	26155.0		
SHUJAABAD TALUKA	147733.0		SINDHRI
TALUKA	219389.0		
		THARPARKAR DISTRICT	CHACHRO
TALUKA	327492.0		DAHLI
TALUKA	298045.0		DIPLO
TALUKA	135729.0		
ISLAMKOT TALUKA	225927.0		KALOI
TALUKA	117609.0		MITHI
TALUKA	161621.0		NAGAR
PARKAR TALUKA	248079.0		
		UMER KOT DISTRICT	KUNRI
TALUKA	179266.0		PITHORO
TALUKA	107033.0		SAMARO

TALUKA	160967.0		UMER
KOT TALUKA	382666.0		
	Shaheed Benazirabad Division	NAUSHAHRO FEROZE DISTRICT	BHIRIA
TALUKA	239455.0		
KANDIARO TALUKA	283507.0		
MEHRABPUR TALUKA	169661.0		MORO
TALUKA	273131.0		
NAUSHAHRO FEROZE TALUKA	267060.0	SANGHAR DISTRICT	JAM
NAWAZ ALI TALUKA	125985.0		KHIPRO
TALUKA	281837.0		SANGHAR
TALUKA	339307.0		
SHAHDADPUR TALUKA	265945.0		
SINJHORO TALUKA	260082.0		TANDO
ADAM TALUKA	204998.0		
		SHAHEED BENAZIRABAD DISTRICT	DAUR
TALUKA	384652.0		KAZI
AHMED TALUKA	297638.0		
NAWABSHAH TALUKA	134064.0		SAKRAND
TALUKA	307342.0		
	Sukkur Division	GHOTKI DISTRICT	DAHARKI
TALUKA	224423.0		GHOTKI
TALUKA	382741.0		
KHANGARH TALUKA	119244.0		MIRPUR
MATHELO TALUKA	252551.0		UBAURO
TALUKA	308928.0		
		KHAIRPUR DISTRICT	FAIZ
GANJ TALUKA	180739.0		GAMBAT
TALUKA	169334.0		
KHAIRPUR TALUKA	208567.0		KINGRI
TALUKA	245116.0		KOT
DIJI TALUKA	262926.0		MIRWAH
TALUKA	258899.0		

TALUKA	122023.0	NARA
DERO TALUKA	180580.0	SOBHO
SUKKUR TALUKA	43652.0	NEW
AQIL TALUKA	336263.0	PANO
TALUKA	284840.0	ROHRI
SALEHPAT TALUKA	102811.0	SUKKUR
CITY TALUKA	0.0	

Name: ALL SEXES (RURAL), dtype: float64

```
[48]: df.groupby(['PROVINCE'])['POPULATION 1998 (RURAL)'].mean() # mean population in 1998
```

```
[48]: PROVINCE
BALOCHISTAN    37944.450382
KPK            209638.816901
KPK/FATA       62657.086957
PUNJAB         350172.034965
SINDH          113796.167883
Name: POPULATION 1998 (RURAL), dtype: float64
```

```
[49]: #Population of Pakistan in 2017(Rural, all sexes)
df['ALL SEXES (RURAL)'].sum()
```

```
[49]: 130034790
```

```
[50]: #Population of Pakistan in 1998(Rural, all sexes)
df['POPULATION 1998 (RURAL)'].sum()
```

```
[50]: 88401981
```

```
[62]: #Much population is increased from 1998 to 2017
pop_2017= df['ALL SEXES (RURAL)'].sum()
pop_1998=df['POPULATION 1998 (RURAL)'].sum()
pop_increased= pop_2017-pop_1998
```

```
[57]: print("The population that is increased from 1998 to 2017 is",pop_increased)
```

The population that is increased from 1998 to 2017 is 41632809

To calculate the percentage change in population from 1998 to 2017, you should consider the population in 1998 as the base population. Then, you calculate the increase in population from 1998 to 2017, and express it as a percentage of the population in 1998.

```
[63]: # Caluclate the %age of change of population
pop_per_age= (pop_increased)/(pop_1998) * 100
pop_per_age
```

```
[63]: 47.094882409931515
```

```
[65]: print("The percentage change in population from 1998 to 2017 is", pop_per_age)
```

The percentage change in population from 1998 to 2017 is 47.094882409931515

```
[69]: # data filtering on base of sex(male, female, transgender)
df_01= df[['TRANSGENDER (URBAN)', 'MALE (URBAN)', 'FEMALE (URBAN)']]
df_01.head()
```

```
[69]:
```

	TRANSGENDER (URBAN)	MALE (URBAN)	FEMALE (URBAN)
0	47	98391	95402
1	27	75546	73851
2	18	31360	30150
3	19	71345	71236
4	10	36694	35590

```
[ ]:
```