India Census 2011 Dataset

This data is about total population, demography, literacy, district, states, workers, literacy, age, education

The data used here is of 2011 India Census of each district

The data is available in csv file downloaded from Kaggle. We'll analyze it using pandas.

```
#importing pandas
import pandas as pd
#importing csv file to notebook
india=pd.read csv('file.csv')
#checking the file
india
     District code
                                      State name
District name \
                               JAMMU AND KASHMIR
                  1
Kupwara
                  2
                               JAMMU AND KASHMIR
1
Badgam
                 3
                               JAMMU AND KASHMIR
Leh (Ladakh)
                               JAMMU AND KASHMIR
Kargil
                               JAMMU AND KASHMIR
Punch
. . .
                                     PONDICHERRY
635
               636
Mahe
               637
                                     PONDICHERRY
636
Karaikal
637
               638 ANDAMAN AND NICOBAR ISLANDS
Nicobars
638
               639
                    ANDAMAN AND NICOBAR ISLANDS North AND Middle
Andaman
               640
                    ANDAMAN AND NICOBAR ISLANDS
                                                                South
639
Andaman
     Population
                   Male
                          Female
                                  Literate
                                             Workers
                                                      Male_Workers
0
         870354
                 474190
                          396164
                                    439654
                                              229064
                                                             190899
1
         753745
                          355704
                                    335649
                                              214866
                                                             162578
                 398041
2
         133487
                  78971
                           54516
                                     93770
                                               75079
                                                              53265
3
         140802
                  77785
                           63017
                                     86236
                                               51873
                                                              39839
```

4	476835	251899	224936	261724	161393	117677
635 636 637 638 639	41816 200222 36842 105597 238142	19143 97809 20727 54861 127283	22673 102413 16115 50736 110859	36470 154916 25332 78683 190266	11802 68301 17125 38579 96831	9093 53139 12714 30612 77563
0 1 2 3 4 635 636 637 638 639	522 218 120 437 21 151 44 79	ers 165 288 314 716 709 162 411 967	14 6 6 9 183 266 218	ans Sikhs 700 5600 489 5559 558 1092 504 1171 958 11188 958 3 391 46 977 343 370 77 937 866	Buddhists 66 47 88635 20126 83 21 63 119 84 135	Jains \ 39 6 103 28 10 14 54 0 4 27
0 1 2 3 4	Secondary_Ed	ducation 74948 66459 16265 16938 46062	Higher_E	Education 39709 41367 8923 9826 29517	Graduate_E	ducation \ 21751 27950 6197 3077 13962
635 636 637 638 639		8773 29456 6325 12707 42150		5711 15930 3668 10042 29910		4475 18998 1300 5133 22388
0 1 2 3 4 635 636 637 638 639	875 3049 197 1023 187	759 223 703 532 979 760 333 786 350	125 600 120 307	435 933 515 561 318 543 989	roup_50 89679 88978 21019 17488 61334 9428 37434 5922 17464 33128	
[640	rows x 25 co	olumns]				

Q1-> Hide the indexes in the dataframe.

ar / mac	tile illucx	es in the c	acarranic.					
india.head(<mark>5</mark>)							
<pre>District_ Female \</pre>	code	State_name	District_name	Population	Male			
0 396164	1 JAMMU	AND KASHMIR	Kupwara	870354	474190			
1 355704	2 JAMMU	AND KASHMIR	Badgam	753745	398041			
2	3 JAMMU	AND KASHMIR	Leh(Ladakh)	133487	78971			
54516 3	4 JAMMU	AND KASHMIR	Kargil	140802	77785			
63017 4 224936	5 JAMMU	AND KASHMIR	Punch	476835	251899			
Literate Sikhs \	Workers Ma	ile_Workers	Female_Workers	Chris	tians			
0 439654 5600	229064	190899	38165		1700			
1 335649 5559	214866	162578	52288		1489			
2 93770 1092	75079	53265	21814		658			
3 86236 1171	51873	39839	12034		604			
4 261724	161393	117677	43716		958			
Buddhists Jains Secondary_Education Higher_Education \ 0 66 39 74948 39709 1 47 6 66459 41367 2 88635 103 16265 8923 3 20126 28 16938 9826 4 83 10 46062 29517								
Graduate_ 0 1 2 3 4	Education A 21751 27950 6197 3077 13962	age_Group_0_2 60075 50322 7076 8753 30497	$\frac{1}{1}$ $\frac{1}$	0_49 Age_Gr 3435 9933 1515 5561 9818	89679 89679 88978 21019 17488 61334			
[5 rows x 25	columns]							
#df.style.hi								
			oykernel_14684\3 cated in favour		y:2:			

```
`Styler.hide(axis="index")`
  india.style.hide index()
<pandas.io.formats.style.Styler at 0x2f247a54b80>
india
     District code
                                        State name
District name \
                                JAMMU AND KASHMIR
                  1
Kupwara
                  2
                                JAMMU AND KASHMIR
1
Badgam
                  3
                                JAMMU AND KASHMIR
Leh (Ladakh)
3
                                JAMMU AND KASHMIR
Kargil
                  5
                                JAMMU AND KASHMIR
Punch
. .
. . .
                636
                                       PONDICHERRY
635
Mahe
                637
                                       PONDICHERRY
636
Karaikal
637
                638
                     ANDAMAN AND NICOBAR ISLANDS
Nicobars
                     ANDAMAN AND NICOBAR ISLANDS North AND Middle
638
                639
Andaman
639
                640 ANDAMAN AND NICOBAR ISLANDS
                                                                  South
Andaman
     Population
                    Male
                           Female
                                   Literate
                                              Workers
                                                        Male Workers \
0
         870354
                  474190
                           396164
                                      439654
                                               229064
                                                               190899
1
         753745
                  398041
                           355704
                                      335649
                                               214866
                                                               162578
2
         133487
                   78971
                            54516
                                       93770
                                                75079
                                                                53265
3
         140802
                                       86236
                   77785
                            63017
                                                51873
                                                                39839
4
         476835
                  251899
                           224936
                                      261724
                                               161393
                                                               117677
635
           41816
                   19143
                            22673
                                       36470
                                                 11802
                                                                 9093
636
         200222
                   97809
                           102413
                                      154916
                                                 68301
                                                                53139
637
           36842
                   20727
                            16115
                                       25332
                                                 17125
                                                                12714
638
          105597
                   54861
                            50736
                                       78683
                                                 38579
                                                                30612
639
         238142
                  127283
                           110859
                                      190266
                                                96831
                                                                77563
     Female Workers
                            Christians
                                         Sikhs
                                                Buddhists
                                                            Jains \
                       . . .
0
                                          5600
               38165
                                  1700
                                                        66
                                                                39
                       . . .
                                   1489
                                          5559
                                                        47
1
               52288
                                                                 6
                       . . .
2
               21814
                                   658
                                          1092
                                                     88635
                                                               103
                       . . .
3
               12034
                                    604
                                          1171
                                                     20126
                                                                28
```

4 635 636 637 638 639	43716 2709 15162 4411 7967 19268	958 958 18391 26077 21870 33037	11188 3 46 343 77 866	83 21 63 119 84 135	10 14 54 0 4 27	
0 1 2 3 4 635 636 637 638 639	Secondary_Education 74948 66459 16265 16938 46062 8773 29456 6325 12707 42156		ation 39709 41367 8923 9826 29517 5711 15930 3668 10042 29910	Graduate_Ed	21751 27950 6197 3077 13962 4475 18998 1300 5133 22388	
0 1 2 3 4 635 636 637 638 639	Age_Group_0_29 Age 600759 503223 70703 87532 304979 19760 102333 18786 57350 128402	e_Group_30_49 178435 160933 41515 35561 109818 12543 60089 12088 30741 76332	Age_Gr	89679 89679 88978 21019 17488 61334 9428 37434 5922 17464 33128		
[640	rows x 25 columns]					

Q2-> Set the heading to the dataframe.

Badgam 2		3	1/	AMMU AN	ID KVZF	HMTR			
Leh (Lada	akh)	3	Jr	AIIIIO AIV	ול ולא	11 1717			
3	arri)	4	1/	AMMU AN	ID KASH	HMTR			
Kargil		•	3,	11110 7111	10 10131				
4		5	1/	AMMU AN	ID KASH	HMTR			
Punch		3	3,	11110 7111	10 10131				
		_							
	• •	•							
635	63	16		PO	NDICHE	FRRY			
Mahe		. •							
636	63	37		PO	NDICHE	ERRY			
Karaika		-							
637	63	8 ANDAM	AN AND	NICOBA	R ISLA	ANDS			
Nicobar									
638	63	9 ANDAM	AN AND	NICOBA	R ISLA	ANDS N	orth	AND Middl	.e
Andaman		-							
639	64	0 ANDAM	AN AND	NICOBA	R ISLA	ANDS		Sout	:h
Andaman	-	-							
Po	pulation	Male	Female	Liter	ate V	Workers	Mal	e_Workers	\
0	870354	474190	396164	439	654	229064		190899	
1	753745	398041	355704	335	649	214866		162578	
2	133487	78971	54516	93	3770	75079		53265	
3	140802	77785	63017	86	5236	51873		39839	
4	476835	251899	224936	261	724	161393		117677	
635	41816	19143	22673	36	6470	11802		9093	
636	200222	97809	102413	154	1916	68301		53139	
637	36842	20727	16115	25	332	17125		12714	
638	105597	54861	50736	78	8683	38579		30612	
639	238142	127283	110859	190	266	96831		77563	
Fei	male_Worke	ers	Christ	tians	Sikhs	Buddh	ists	Jains \	
0	381	.65		1700	5600		66	39	
1	522	88		1489	5559		47	6	
2	218	314		658	1092	8	8635	103	
2 3 4	120	34		604	1171	2	0126	28	
4	437	'16		958	11188		83	10	
635		'09		958	3		21	14	
636	151		-	18391	46		63	54	
637		11		26077	343		119	0	
638		67		21870	77		84	4	
639	192			33037	866		135	27	
3.2.9									
Se	condary Ed	lucation	Higher	r Educa	ntion	Gradua	te Ed	ucation \	
0	,_	74948	,	_	39709		_	21751	
1		66459			1367			27950	
2		16265			8923			6197	
								-	

3	16938	9826	3077
4	46062	29517	13962
635	8773	5711	4475
636	29456	15930	18998
637	6325	3668	1300
638	12707	10042	5133
639	42150	29910	22388
Age_Group_0_0 0 6007 1 5032 2 707 3 875 4 3049 635 197 636 1023 637 187 638 573 639 1284	59 178435 23 160933 03 41515 32 35561 79 109818 60 12543 33 60089 86 12088 50 30741 02 76332	Age_Group_50 89679 88978 21019 17488 61334 9428 37434 5922 17464 33128	

Q3-> Show the records related with districts- New Delhi, Jaipur, Lucknow.

```
india.head(2)
   District code
                         State_name District_name
                                                     Population
                                                                   Male
Female \
                  JAMMU AND KASHMIR
                                           Kupwara
                                                         870354
                                                                 474190
396164
               2 JAMMU AND KASHMIR
                                            Badgam
                                                         753745
                                                                 398041
355704
             Workers
                      Male_Workers
                                     Female_Workers
                                                           Christians
   Literate
Sikhs \
              229064
     439654
                             190899
                                              38165
                                                                 1700
5600
     335649
              214866
                                              52288
                                                                 1489
                             162578
5559
                                           Higher Education \
   Buddhists
              Jains
                     Secondary_Education
0
                 39
                                    74948
          66
                                                       39709
          47
                  6
                                    66459
                                                       41367
1
                       Age_Group_0_29
   Graduate Education
                                        Age_Group_30_49
                                                          Age Group 50
0
                21751
                                600759
                                                  178435
                                                                 89679
```

1	27950	503223	16093	33	88978
[2 rows x 25 d	columns]				
<pre>#here we have india[india['[</pre>		n nme'].isin(['New	Delhi','Jaipu	ır','Luc	know'])]
<pre>District_ Female \</pre>	_code S	State_name Distri	ct_name Popu	ulation	Male
93 64062	94 NCT	OF DELHI Ne	w Delhi	142004	77942
109 3157671	110	RAJASTHAN	Jaipur 6	6626178	3468507
156 2195362	157 UTTA	AR PRADESH	Lucknow	1589838	2394476
Literate	Workers	Male_Workers Fe	male_Workers	CI	nristians
Sikhs \ 93 114179 2933	59541	46940	12601		4852
109 4300965 18782	2464893	1714947	749946		12708
156 3127260 23883	1542806	1226399	316407		20493
Buddhists 93 312 109 1020 156 3877	2 679 9 81079	Secondary_Educati 159 6593 4281	42 89	lucation 17742 455527 378742	\
Graduate_	_Education	Age_Group_0_29	Age_Group_30	_49 Age	e_Group_50
93	23934	76076	43	3913	21773
109	703673	4091148	1646	5480	884057
156	639260	2678289	1163	1686	685258
[3 rows x 25 d	columns]				

Q4-> Calculate statewise:

- (A) Population
- (B) Total no. of population with religion

india.head(5)

District_	code	State_name	District_name	Population	Male
Female \ 0	1 JAMMU	J AND KASHMIR	Kupwara	870354	474190
396164 1	2 JAMMU	J AND KASHMIR	Badgam	753745	398041
355704 2	3 JAMMU	J AND KASHMIR	Leh(Ladakh)	133487	78971
54516 3	4 JAMMU	J AND KASHMIR	Kargil	140802	77785
63017 4	5 JAMMU	J AND KASHMIR	Punch	476835	251899
224936	5 5711110	THE THISTITIE	runen	170033	231033
Literate Sikhs \	Workers N	Male_Workers	Female_Workers	Chris	tians
0 439654	229064	190899	38165		1700
5600 1 335649	214866	162578	52288		1489
5559 2 93770	75079	53265	21814		658
1092 3 86236	51873	39839	12034		604
1171 4 261724	161393	117677	43716		958
11188					
Buddhists 0 66			ation Higher_E 74948	ducation \ 39709	
1 47 2 88635	6	(66459 16265	41367 8923	
3 20126	28		16938	9826	
			46062	29517	50
0	21751	6007		8435	89679
1 2	27950 6197	50322 7070		0933 1515	88978 21019
2 3 4	3077 13962	8753 30493		5561 9818	17488 61334
[5 rows x 25	columns]				
india.groupb se)	y('State_na	ame').Populat:	ion. <mark>sum</mark> ().sort_	values(ascen	ıding= <mark>Fal</mark>
State_name		1000	10041		
UTTAR PRADES MAHARASHTRA	Н	1123	12341 74333		
BIHAR WEST BENGAL			99452 76115		

```
ANDHRA PRADESH
                                 84580777
MADHYA PRADESH
                                 72626809
TAMIL NADU
                                 72147030
RAJASTHAN
                                 68548437
KARNATAKA
                                 61095297
GUJARAT
                                 60439692
ORISSA
                                 41974218
                                 33406061
KERALA
                                 32988134
JHARKHAND
ASSAM
                                 31205576
PUNJAB
                                 27743338
CHHATTISGARH
                                 25545198
HARYANA
                                 25351462
NCT OF DELHI
                                 16787941
JAMMU AND KASHMIR
                                 12541302
UTTARAKHAND
                                 10086292
HIMACHAL PRADESH
                                  6864602
TRIPURA
                                  3673917
MEGHALAYA
                                  2966889
MANIPUR
                                  2855794
NAGALAND
                                  1978502
G0A
                                  1458545
ARUNACHAL PRADESH
                                  1383727
PONDICHERRY
                                  1247953
MIZORAM
                                  1097206
CHANDIGARH
                                  1055450
SIKKIM
                                   610577
ANDAMAN AND NICOBAR ISLANDS
                                   380581
DADRA AND NAGAR HAVELI
                                   343709
DAMAN AND DIU
                                   243247
LAKSHADWEEP
                                    64473
Name: Population, dtype: int64
india['Population'].sum()
1210854977
india.groupby('State name')
['Hindus', 'Muslims', 'Christians', 'Sikhs', 'Buddhists', 'Jains'].sum().so
rt values(by = 'Hindus')
C:\Users\Intel\AppData\Local\Temp\ipykernel_14684\2731530433.py:1:
FutureWarning: Indexing with multiple keys (implicitly converted to a
tuple of keys) will be deprecated, use a list instead.
  india.groupby('State name')
['Hindus','Muslims','Christians','Sikhs','Buddhists','Jains'].sum().so
rt values(by ='Hindus')
                                 Hindus
                                          Muslims Christians
\
```

State_name				
LAKSHADWEEP	1788	62268	317	8
MIZORAM	30136	14832	956331	286
NAGALAND	173054	48963	1739651	1890
DAMAN AND DIU	220150	19277	2820	172
ANDAMAN AND NICOBAR ISLANDS	264296	32413	80984	1286
DADRA AND NAGAR HAVELI	322857	12922	5113	217
MEGHALAYA	342078	130399	2213027	3045
SIKKIM	352662	9867	60522	1868
ARUNACHAL PRADESH	401876	27045	418732	3287
CHANDIGARH	852574	51447	8720	138329
GOA	963877	121564	366130	1473
PONDICHERRY	1089409	75556	78550	297
MANIPUR	1181876	239836	1179043	1527
TRIPURA	3063903	316042	159882	1070
JAMMU AND KASHMIR	3566674	8567485	35631	234848
HIMACHAL PRADESH	6532765	149881	12646	79896
UTTARAKHAND	8368636	1406825	37781	236340
PUNJAB	10678138	535489	348230	16004754
NCT OF DELHI	13712100	2158684	146093	570581
KERALA	18282492	8873472	6141269	3814
ASSAM	19180759	10679345	1165867	20672
HARYANA	22171128	1781342	50353	1243752
JHARKHAND	22376051	4793994	1418608	71422
CHHATTISGARH	23819789	514998	490542	70036
ORISSA	39300341	911670	1161708	21991

KARNATAKA	51317472	7893065	1142647	28773
GUJARAT	53533988	5846761	316178	58246
RAJASTHAN	60657103	6215377	96430	872930
TAMIL NADU	63188168	4229479	4418331	14601
WEST BENGAL	64385546	24654825	658618	63523
MADHYA PRADESH	66007121	4774695	213282	151412
ANDHRA PRADESH	74824149	8082412	1129784	40244
BIHAR	86078686	17557809	129247	23779
MAHARASHTRA	89703057	12971152	1080073	223247
UTTAR PRADESH	159312654	38483967	356448	643500
State_name	Buddhists	Jains		
MIZORAM NAGALAND DAMAN AND DIU ANDAMAN AND NICOBAR ISLANDS DADRA AND NAGAR HAVELI MEGHALAYA SIKKIM ARUNACHAL PRADESH CHANDIGARH GOA PONDICHERRY MANIPUR TRIPURA JAMMU AND KASHMIR HIMACHAL PRADESH UTTARAKHAND PUNJAB NCT OF DELHI KERALA ASSAM HARYANA JHARKHAND CHHATTISGARH	93411 6759 217 338 634 9864 167216 162815 1160 1095 451 7084 125385 112584 78659 14926 33237 18449 4752 54993 7514 8956 70467	376 2655 287 31 1186 627 314 771 1960 1109 1400 1692 860 2490 1805 9183 45040 166231 4489 25949 52613 14974 61510		
ORISSA KARNATAKA GUJARAT	13852 95710 30483	9420 440280 579654		

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RAJASTHAN
                                  12185
                                          622023
TAMIL NADU
                                 11186
                                           89265
WEST BENGAL
                                282898
                                           60141
MADHYA PRADESH
                                216052
                                          567028
ANDHRA PRADESH
                                 36692
                                           53849
BIHAR
                                 25453
                                           18914
MAHARASHTRA
                               6531200 1400349
UTTAR PRADESH
                                206285
                                          213267
```

india.groupby('State_name')

['Hindus','Muslims','Christians','Sikhs','Buddhists','Jains'].sum().sort_values(by ='Muslims')

C:\Users\Intel\AppData\Local\Temp\ipykernel_14684\3367746560.py:1: FutureWarning: Indexing with multiple keys (implicitly converted to a tuple of keys) will be deprecated, use a list instead.

india.groupby('State name')

['Hindus','Muslims','Christians','Sikhs','Buddhists','Jains'].sum().sort_values(by ='Muslims')

	Hindus	Muslims	Christians	Sikhs
\ State_name				
SIKKIM	352662	9867	60522	1868
DADRA AND NAGAR HAVELI	322857	12922	5113	217
MIZORAM	30136	14832	956331	286
DAMAN AND DIU	220150	19277	2820	172
ARUNACHAL PRADESH	401876	27045	418732	3287
ANDAMAN AND NICOBAR ISLANDS	264296	32413	80984	1286
NAGALAND	173054	48963	1739651	1890
CHANDIGARH	852574	51447	8720	138329
LAKSHADWEEP	1788	62268	317	8
PONDICHERRY	1089409	75556	78550	297
GOA	963877	121564	366130	1473
MEGHALAYA	342078	130399	2213027	3045
HIMACHAL PRADESH	6532765	149881	12646	79896
MANIPUR	1181876	239836	1179043	1527

TRIPURA	3063903	316042	159882	1070
CHHATTISGARH	23819789	514998	490542	70036
PUNJAB	10678138	535489	348230	16004754
ORISSA	39300341	911670	1161708	21991
UTTARAKHAND	8368636	1406825	37781	236340
HARYANA	22171128	1781342	50353	1243752
NCT OF DELHI	13712100	2158684	146093	570581
TAMIL NADU	63188168	4229479	4418331	14601
MADHYA PRADESH	66007121	4774695	213282	151412
JHARKHAND	22376051	4793994	1418608	71422
GUJARAT	53533988	5846761	316178	58246
RAJASTHAN	60657103	6215377	96430	872930
KARNATAKA	51317472	7893065	1142647	28773
ANDHRA PRADESH	74824149	8082412	1129784	40244
JAMMU AND KASHMIR	3566674	8567485	35631	234848
KERALA	18282492	8873472	6141269	3814
ASSAM	19180759	10679345	1165867	20672
MAHARASHTRA	89703057	12971152	1080073	223247
BIHAR	86078686	17557809	129247	23779
WEST BENGAL	64385546	24654825	658618	63523
UTTAR PRADESH	159312654	38483967	356448	643500
	Buddhists	Jains		
State_name SIKKIM DADRA AND NAGAR HAVELI MIZORAM DAMAN AND DIU ARUNACHAL PRADESH	167216 634 93411 217 162815	314 1186 376 287 771		

```
ANDAMAN AND NICOBAR ISLANDS
                                    338
                                              31
                                   6759
NAGALAND
                                            2655
CHANDIGARH
                                   1160
                                            1960
LAKSHADWEEP
                                     10
                                              11
PONDICHERRY
                                    451
                                            1400
                                   1095
                                            1109
G0A
MEGHALAYA
                                   9864
                                             627
HIMACHAL PRADESH
                                  78659
                                            1805
MANIPUR
                                   7084
                                            1692
TRIPURA
                                 125385
                                             860
CHHATTISGARH
                                  70467
                                           61510
PUNJAB
                                  33237
                                           45040
ORISSA
                                  13852
                                            9420
UTTARAKHAND
                                  14926
                                            9183
HARYANA
                                  7514
                                           52613
NCT OF DELHI
                                  18449
                                          166231
TAMIL NADU
                                  11186
                                           89265
MADHYA PRADESH
                                 216052
                                          567028
                                   8956
                                          14974
JHARKHAND
                                  30483
                                          579654
GUJARAT
RAJASTHAN
                                  12185
                                          622023
KARNATAKA
                                  95710
                                          440280
                                  36692
ANDHRA PRADESH
                                           53849
JAMMU AND KASHMIR
                                 112584
                                            2490
                                   4752
KERALA
                                            4489
ASSAM
                                  54993
                                           25949
MAHARASHTRA
                                6531200
                                         1400349
                                  25453
BIHAR
                                           18914
WEST BENGAL
                                 282898
                                           60141
UTTAR PRADESH
                                 206285
                                          213267
india.groupby('State name')
['Hindus', 'Muslims', 'Christians', 'Sikhs', 'Buddhists', 'Jains'].sum().so
rt values(by ='Christians')
C:\Users\Intel\AppData\Local\Temp\ipykernel 14684\2829185836.py:1:
FutureWarning: Indexing with multiple keys (implicitly converted to a
tuple of keys) will be deprecated, use a list instead.
  india.groupby('State name')
['Hindus','Muslims','Christians','Sikhs','Buddhists','Jains'].sum().so
rt values(by ='Christians')
                                Hindus
                                          Muslims Christians
                                                                   Sikhs
State name
                                   1788
                                            62268
LAKSHADWEEP
                                                          317
DAMAN AND DIU
                                 220150
                                            19277
                                                         2820
                                                                     172
```

DADRA AND NAGAR HAVELI	322857	12922	5113	217
CHANDIGARH	852574	51447	8720	138329
HIMACHAL PRADESH	6532765	149881	12646	79896
JAMMU AND KASHMIR	3566674	8567485	35631	234848
UTTARAKHAND	8368636	1406825	37781	236340
HARYANA	22171128	1781342	50353	1243752
SIKKIM	352662	9867	60522	1868
PONDICHERRY	1089409	75556	78550	297
ANDAMAN AND NICOBAR ISLANDS	264296	32413	80984	1286
RAJASTHAN	60657103	6215377	96430	872930
BIHAR	86078686	17557809	129247	23779
NCT OF DELHI	13712100	2158684	146093	570581
TRIPURA	3063903	316042	159882	1070
MADHYA PRADESH	66007121	4774695	213282	151412
GUJARAT	53533988	5846761	316178	58246
PUNJAB	10678138	535489	348230	16004754
UTTAR PRADESH	159312654	38483967	356448	643500
GOA	963877	121564	366130	1473
ARUNACHAL PRADESH	401876	27045	418732	3287
CHHATTISGARH	23819789	514998	490542	70036
WEST BENGAL	64385546	24654825	658618	63523
MIZORAM	30136	14832	956331	286
MAHARASHTRA	89703057	12971152	1080073	223247
ANDHRA PRADESH	74824149	8082412	1129784	40244
KARNATAKA	51317472	7893065	1142647	28773
ORISSA	39300341	911670	1161708	21991

759 10679345 1165867 20672
.876 239836 1179043 1527
6051 4793994 1418608 71422
3054 48963 1739651 1890
2078 130399 2213027 3045
3168 4229479 4418331 14601
.492 8873472 6141269 3814
3011
sts Jains
10 11 217 287 634 1186 .160 1960 .8659 1805 .8584 2490 .926 9183 .7514 52613 .7216 314 .451 1400 .338 31 .8185 622023 .4453 18914 .8449 166231 .8385 860 .8052 567028 .9483 579654 .8237 45040 .8237 4
255 277 277 277 277 277 277 277 277 277

 TAMIL NADU
 11186
 89265

 KERALA
 4752
 4489

india.groupby('State_name')
['Hindus','Muslims','Christians','Sikhs','Buddhists','Jains'].sum().so
rt values(by ='Sikhs')

C:\Users\Intel\AppData\Local\Temp\ipykernel_14684\2303039299.py:1: FutureWarning: Indexing with multiple keys (implicitly converted to a tuple of keys) will be deprecated, use a list instead.

india.groupby('State_name')

['Hindus','Muslims','Christians','Sikhs','Buddhists','Jains'].sum().sort_values(by ='Sikhs')

	Hindus	Muslims	Christians	Sikhs
\ State_name				
LAKSHADWEEP	1788	62268	317	8
DAMAN AND DIU	220150	19277	2820	172
DADRA AND NAGAR HAVELI	322857	12922	5113	217
MIZORAM	30136	14832	956331	286
PONDICHERRY	1089409	75556	78550	297
TRIPURA	3063903	316042	159882	1070
ANDAMAN AND NICOBAR ISLANDS	264296	32413	80984	1286
GOA	963877	121564	366130	1473
MANIPUR	1181876	239836	1179043	1527
SIKKIM	352662	9867	60522	1868
NAGALAND	173054	48963	1739651	1890
MEGHALAYA	342078	130399	2213027	3045
ARUNACHAL PRADESH	401876	27045	418732	3287
KERALA	18282492	8873472	6141269	3814
TAMIL NADU	63188168	4229479	4418331	14601
ASSAM	19180759	10679345	1165867	20672
ORISSA	39300341	911670	1161708	21991

BIHAR	86078686	17557809	129247	23779
KARNATAKA	51317472	7893065	1142647	28773
ANDHRA PRADESH	74824149	8082412	1129784	40244
GUJARAT	53533988	5846761	316178	58246
WEST BENGAL	64385546	24654825	658618	63523
CHHATTISGARH	23819789	514998	490542	70036
JHARKHAND	22376051	4793994	1418608	71422
HIMACHAL PRADESH	6532765	149881	12646	79896
CHANDIGARH	852574	51447	8720	138329
MADHYA PRADESH	66007121	4774695	213282	151412
MAHARASHTRA	89703057	12971152	1080073	223247
JAMMU AND KASHMIR	3566674	8567485	35631	234848
UTTARAKHAND	8368636	1406825	37781	236340
NCT OF DELHI	13712100	2158684	146093	570581
UTTAR PRADESH	159312654	38483967	356448	643500
RAJASTHAN	60657103	6215377	96430	872930
HARYANA	22171128	1781342	50353	1243752
PUNJAB	10678138	535489	348230	16004754
State name	Buddhists	Jains		
LAKSHADWEEP DAMAN AND DIU DADRA AND NAGAR HAVELI MIZORAM PONDICHERRY	10 217 634 93411 451	11 287 1186 376 1400		
TRIPURA ANDAMAN AND NICOBAR ISLANDS GOA MANIPUR SIKKIM NAGALAND MEGHALAYA	125385 338 1095 7084 167216 6759 9864	860 31 1109 1692 314 2655 627		

```
ARUNACHAL PRADESH
                                 162815
                                              771
                                   4752
                                             4489
KERALA
                                            89265
TAMIL NADU
                                  11186
ASSAM
                                  54993
                                            25949
ORISSA
                                  13852
                                             9420
BIHAR
                                  25453
                                            18914
KARNATAKA
                                  95710
                                          440280
ANDHRA PRADESH
                                  36692
                                            53849
GUJARAT
                                  30483
                                          579654
WEST BENGAL
                                 282898
                                           60141
CHHATTISGARH
                                  70467
                                            61510
JHARKHAND
                                   8956
                                            14974
                                  78659
HIMACHAL PRADESH
                                             1805
CHANDIGARH
                                   1160
                                             1960
MADHYA PRADESH
                                 216052
                                          567028
MAHARASHTRA
                                6531200
                                         1400349
JAMMU AND KASHMIR
                                 112584
                                             2490
UTTARAKHAND
                                  14926
                                             9183
NCT OF DELHI
                                  18449
                                          166231
UTTAR PRADESH
                                 206285
                                          213267
RAJASTHAN
                                  12185
                                          622023
HARYANA
                                   7514
                                            52613
PUNJAB
                                  33237
                                           45040
india.groupby('State name')
['Hindus', 'Muslims', 'Christians', 'Sikhs', 'Buddhists', 'Jains'].sum().so
rt values(by = 'Buddhists')
C:\Users\Intel\AppData\Local\Temp\ipykernel 14684\1116056636.py:1:
FutureWarning: Indexing with multiple keys (implicitly converted to a
tuple of keys) will be deprecated, use a list instead.
  india.groupby('State name')
['Hindus','Muslims','Christians','Sikhs','Buddhists','Jains'].sum().so
rt values(by ='Buddhists')
                                 Hindus
                                          Muslims Christians
State name
                                             62268
LAKSHADWEEP
                                   1788
                                                           317
                                                                        8
                                             19277
DAMAN AND DIU
                                                          2820
                                                                      172
                                 220150
ANDAMAN AND NICOBAR ISLANDS
                                 264296
                                             32413
                                                         80984
                                                                     1286
PONDICHERRY
                                1089409
                                             75556
                                                         78550
                                                                      297
DADRA AND NAGAR HAVELI
                                 322857
                                             12922
                                                          5113
                                                                      217
                                                        366130
G0A
                                 963877
                                                                     1473
                                            121564
```

CHANDIGARH	852574	51447	8720	138329
KERALA	18282492	8873472	6141269	3814
NAGALAND	173054	48963	1739651	1890
MANIPUR	1181876	239836	1179043	1527
HARYANA	22171128	1781342	50353	1243752
JHARKHAND	22376051	4793994	1418608	71422
MEGHALAYA	342078	130399	2213027	3045
TAMIL NADU	63188168	4229479	4418331	14601
RAJASTHAN	60657103	6215377	96430	872930
ORISSA	39300341	911670	1161708	21991
UTTARAKHAND	8368636	1406825	37781	236340
NCT OF DELHI	13712100	2158684	146093	570581
BIHAR	86078686	17557809	129247	23779
GUJARAT	53533988	5846761	316178	58246
PUNJAB	10678138	535489	348230	16004754
ANDHRA PRADESH	74824149	8082412	1129784	40244
ASSAM	19180759	10679345	1165867	20672
CHHATTISGARH	23819789	514998	490542	70036
HIMACHAL PRADESH	6532765	149881	12646	79896
MIZORAM	30136	14832	956331	286
KARNATAKA	51317472	7893065	1142647	28773
JAMMU AND KASHMIR	3566674	8567485	35631	234848
TRIPURA	3063903	316042	159882	1070
ARUNACHAL PRADESH	401876	27045	418732	3287
SIKKIM	352662	9867	60522	1868
UTTAR PRADESH	159312654	38483967	356448	643500

MADHYA PRADESH	66007121	4774695	213282	151412
WEST BENGAL	64385546	24654825	658618	63523
MAHARASHTRA	89703057	12971152	1080073	223247
HAHAMƏHTMA	03703037	12371132	1000075	ZZJZ+1
	Buddhists	Jains		
State name		0.0.0		
LAKSHADWEEP	10	11		
DAMAN AND DIU	217	287		
ANDAMAN AND NICOBAR ISLANDS	338	31		
PONDICHERRY	451	1400		
DADRA AND NAGAR HAVELI	634	1186		
GOA	1095	1109		
CHANDIGARH	1160	1960		
KERALA	4752	4489		
NAGALAND	6759	2655		
MANIPUR	7084	1692		
HARYANA	7514	52613		
JHARKHAND	8956	14974		
MEGHALAYA	9864	627		
TAMIL NADU	11186	89265		
RAJASTHAN	12185	622023		
ORISSA	13852	9420		
UTTARAKHAND	14926	9183		
NCT OF DELHI	18449	166231		
BIHAR	25453	18914		
GUJARAT	30483	579654		
PUNJAB	33237	45040		
ANDHRA PRADESH	36692	53849		
ASSAM	54993	25949		
CHHATTISGARH	70467	61510		
HIMACHAL PRADESH	78659	1805		
MIZORAM	93411	376		
KARNATAKA	95710	440280		
JAMMU AND KASHMIR	112584	2490		
TRIPURA	125385	860		
ARUNACHAL PRADESH	162815	771		
SIKKIM	167216	314		
UTTAR PRADESH	206285	213267		
MADHYA PRADESH	216052	567028		
WEST BENGAL MAHARASHTRA	282898	60141		
Мапакаэп і ка	6531200	1400349		
<pre>india.groupby('State_name')</pre>				
['Hindus','Muslims', Christi	ans','Sikhs	','Buddhis	ts','Jains'].	<pre>sum().so</pre>
rt_values(by ='Jains')				

C:\Users\Intel\AppData\Local\Temp\ipykernel_14684\457364065.py:1: FutureWarning: Indexing with multiple keys (implicitly converted to a tuple of keys) will be deprecated, use a list instead.

india.groupby('State_name')

['Hindus','Muslims','Christians','Sikhs','Buddhists','Jains'].sum().sort_values(by ='Jains')

	Hindus	Muslims	Christians	Sikhs
\ State_name				
LAKSHADWEEP	1788	62268	317	8
ANDAMAN AND NICOBAR ISLANDS	264296	32413	80984	1286
DAMAN AND DIU	220150	19277	2820	172
SIKKIM	352662	9867	60522	1868
MIZORAM	30136	14832	956331	286
MEGHALAYA	342078	130399	2213027	3045
ARUNACHAL PRADESH	401876	27045	418732	3287
TRIPURA	3063903	316042	159882	1070
GOA	963877	121564	366130	1473
DADRA AND NAGAR HAVELI	322857	12922	5113	217
PONDICHERRY	1089409	75556	78550	297
MANIPUR	1181876	239836	1179043	1527
HIMACHAL PRADESH	6532765	149881	12646	79896
CHANDIGARH	852574	51447	8720	138329
JAMMU AND KASHMIR	3566674	8567485	35631	234848
NAGALAND	173054	48963	1739651	1890
KERALA	18282492	8873472	6141269	3814
UTTARAKHAND	8368636	1406825	37781	236340
ORISSA	39300341	911670	1161708	21991
JHARKHAND	22376051	4793994	1418608	71422

BIHAR	86078686	17557809	129247	23779
ASSAM	19180759	10679345	1165867	20672
PUNJAB	10678138	535489	348230	16004754
HARYANA	22171128	1781342	50353	1243752
ANDHRA PRADESH	74824149	8082412	1129784	40244
WEST BENGAL	64385546	24654825	658618	63523
CHHATTISGARH	23819789	514998	490542	70036
TAMIL NADU	63188168	4229479	4418331	14601
NCT OF DELHI	13712100	2158684	146093	570581
UTTAR PRADESH	159312654	38483967	356448	643500
KARNATAKA	51317472	7893065	1142647	28773
MADHYA PRADESH	66007121	4774695	213282	151412
GUJARAT	53533988	5846761	316178	58246
RAJASTHAN	60657103	6215377	96430	872930
MAHARASHTRA	89703057	12971152	1080073	223247
	D. dalbahata	la i na		
State name	Buddhists	Jains		
LAKSHADWEEP	10	11		
ANDAMAN AND NICOBAR ISLANDS	338 217	31		
DAMAN AND DIU SIKKIM	167216	287 314		
MIZORAM	93411	376		
MEGHALAYA	9864	627		
ARUNACHAL PRADESH TRIPURA	162815 125385	771 860		
GOA	1095	1109		
DADRA AND NAGAR HAVELI	634	1186		
PONDICHERRY	451	1400		
MANIPUR HIMACHAL PRADESH	7084 78659	1692 1805		
CHANDIGARH	1160	1960		
JAMMU AND KASHMIR	112584	2490		
NAGALAND	6759	2655		
KERALA UTTARAKHAND	4752 14926	4489 9183		

ORISSA	13852	9420	
JHARKHAND	8956	14974	
BIHAR	25453	18914	
ASSAM	54993	25949	
PUNJAB	33237	45040	
HARYANA	7514	52613	
ANDHRA PRADESH	36692	53849	
WEST BENGAL	282898	60141	
CHHATTISGARH	70467	61510	
TAMIL NADU	11186	89265	
NCT OF DELHI	18449	166231	
UTTAR PRADESH	206285	213267	
KARNATAKA	95710	440280	
MADHYA PRADESH	216052	567028	
GUJARAT	30483	579654	
RAJASTHAN	12185	622023	
MAHARASHTRA	6531200	1400349	

So all statewise religion details have been analysed.

Q5-> How many male workers are in Maharashtra?

```
india[india['State_name'] == 'MAHARASHTRA']['Male_Workers']
496
        442898
497
        570448
498
       1186472
499
        734024
500
        520362
501
        340353
502
        837577
503
        392316
504
       1334211
505
        345054
506
        383151
507
        323338
508
        648565
509
        815475
510
        925232
511
        330903
512
        501422
513
        545030
514
       1015864
515
       1746286
516
       3363123
517
       2944322
518
       1021009
        753843
519
520
       2809816
```

```
521
       1300309
522
       727819
523
        670018
524
       473795
       1206933
525
526
       844805
        407008
527
528
        229676
529
       1125204
        800214
530
Name: Male_Workers, dtype: int64
india[india['State_name'] == 'MAHARASHTRA']['Male_Workers'].sum()
32616875
```

Q6-> Set a column name as index of Dataframe.

india								
Dist	rict code			Sta	te name			
District	name \				_			
0	1		JAMMU	AND	KASHMIR			
Kupwara								
1	2		JAMMU	AND	KASHMIR			
Badgam								
2	3		JAMMU	AND	KASHMIR			
Leh (Ladak	kh)							
3	4		JAMMU	AND	KASHMIR			
Kargil								
4	5		JAMMU	AND	KASHMIR			
Punch								
635	636			POND	ICHERRY			
Mahe								
636	637			POND	ICHERRY			
Karaikal	620	4115 414411	AND NEG		TCI ANDC			
637	638	ANDAMAN	AND NIC	OBAR	ISLANDS			
Nicobars	620		AND NEC	.0040	TCL ANDC	Nia adala	AND Middle	
638	639	ANDAMAN	AND NIC	UBAR	ISLANDS	North	AND Middle	2
Andaman 639	640	ANDAMAN	AND NTC	ODAD	TCI ANDC		South	
Andaman	040	ANDAMAN	AND NIC	UDAN	ISLANDS		30u ti	ı
Anualian								
Popu	ılation	Male Fer	male Li	terat	e Worke	rs Mal	e Workers	\
0		74190 390		43965			190899	
1				33564			162578	
2			4516	9377			53265	
3			3017	8623			39839	

4	476835	251899	224936	261724	161393	117677
635	41816	 19143	22673	36470	11802	9093
636	200222	97809	102413	154916	68301	53139
637 638	36842 105597	20727 54861	16115 50736	25332 78683	17125 38579	12714 30612
639		127283	110859	190266	96831	77563
	Female_Worke	ers	Christian	ns Sikhs	Buddhists	s Jains \
0	381	.65	170	00 5600	66	39
1	522 218		148 65		47 88635	
2	120		66		20126	
4	437		95		83	3 10
635	27	709	95		21	14
636	151	.62	1839	91 46	63	
637 638		11	2607 2187		119 84	
639	192		3303		135	
	Secondary Ed	lucation	Higher Ed	lucation	Graduate_E	Education \
0	,	74948		39709		21751
1 2		66459 16265		41367 8923		27950 6197
3		16938		9826		3077
		46062		29517		13962
635		8773		5711		4475
636 637		29456 6325		15930 3668		18998 1300
638		12707		10042		5133
639		42150		29910		22388
	Age_Group_0_	29 Age	_Group_30_4	19 Age_G	roup_50	
0	6007	'59	17843	35	89679	
0 1 2 3 4	5032 707		16093 4151		88978 21019	
3	875	32	3556		17488	
4	3049		10981		61334	
635	197	60	1254	13	9428	
636 637	1023 187		6008 1208		37434 5922	
638	573	50	3074	1	17464	
639	1284	02	7633	32	33128	
[640	rows x 25 co	lumns]				
india	a.set_index('	District	t_code')			

		Sta	ate name		Distri	ict name
\ District_code						
1	1 A MF	MII AND	KASHMIR			Kupwara
						•
2			KASHMIR			Badgam
3			KASHMIR		Leh	(Ladakh)
4	JAMI	MU AND	KASHMIR			Kargil
5	JAMI	MU AND	KASHMIR			Punch
636		PONE	DICHERRY			Mahe
637		PONE	DICHERRY		ŀ	Karaikal
638	ANDAMAN AND N	ICOBAR	ISLANDS		١	Nicobars
639	ANDAMAN AND N	ICOBAR	ISLANDS	North	AND Middle	Andaman
640	ANDAMAN AND N	ICOBAR	ISLANDS		South	Andaman
Male_Workers District_code	Population \	Male	Female	Literate	Workers	
1	870354 4	74190	396164	439654	229064	
190899 2	753745 39	98041	355704	335649	214866	
162578 3	133487	78971	54516	93770	75079	
53265 4		77785	63017	86236		
39839						
5 117677	476835 25	51899	224936	261724	161393	
636 9093	41816	19143	22673	36470	11802	
637	200222	97809	102413	154916	68301	
53139 638	36842	20727	16115	25332	17125	
12714 639 30612	105597	54861	50736	78683	38579	

640 77563	238142	12728	3 110859	19026	6	96831
Sikhs \ District_code	Female_Wor	kers (Cultivator_	_Workers		Christians
1	3	8165		34680		1700
5600 2 5559	5	2288		55299		1489
3	2	1814		20869		658
1092 4 1171	1	2034		8266		604
5 11188	4	3716		54264		958
636		2709		43		958
3 637	1	5162		2372		18391
46 638		4411		322		26077
343		4411		322	• • •	20077
639 77		7967		10727		21870
640	1	9268		5518		33037
866						
	Buddhists	Jains	Secondary	_Educati	on	Higher_Education
\ District_code						
1	66	39		749	48	39709
2	47	6		664	59	41367
3	88635	103		162	65	8923
4	20126	28		169	38	9826
5	83	10		460	62	29517
636	21	14		87	73	5711
637	63	54		294	56	15930
638	119	0		63	25	3668

639	84	4	127	707 1	0042	
640	135	27	421	50 2	9910	
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District_code 1 2 3 4 5 636 637 638 639 640	Graduate_Educ	21751 27950 6197 3077 13962 4475 18998 1300 5133 22388	Age_Group_0_29 600759 503223 70703 87532 304979 19760 102333 18786 57350 128402	Age_Group_30_49 178435 160933 41515 35561 109818 12543 60089 12088 30741 76332		
0.10	Age Group 50	22300	120102	70332		
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[640 rows x 24 columns]						

Q7-> Add a suffix to col name.

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ind=india.add_suffix('_right')
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0 396164		Kupwara	0/0334	4/4190
1		Badgam	753745	398041
355704		Daagaiii	733743	330041
2	Leh(Ladakh)	133487	78971
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3		Kargil	140802	77785
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4		Punch	476835	251899
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\		Christians_right	t Sikhs	_right	Buddhist	s_right	Jains_right
Ò		1700	9	5600		66	39
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4		958	3	11188		83	10
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ind1=india.add prefix('left ')
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left Female		ict_name	left_Population	left_Male	
0 _	\	Kupwara	870354	474190	
396164 1		Badgam	753745	398041	
355704		_			
2 54516	Leh	(Ladakh)	133487	78971	
3		Kargil	140802	77785	
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635		Mahe	41816	19143	
22673 636		Karaikal	200222	97809	
102413				51009	
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0 1 2 3 4 	left_Christians 1700 1489 658 604 958	left_Sikhs 5600 5559 1092 1171 11188 	left_Buddhists 66 47 88635 20126 83 	left_Jains \
636 637 638 639	18391 26077 21870 33037	46 343 77 866	63 119 84 135	54 0 4 27
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0 2175	1	74948	39	709
1		66459	41	367
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6197				
3 3077		16938	9	826
4		46062	29	517
13962	2			
635 4475		8773	5	711
636		29456	15	930
18998 637	3	6325	ວ	668
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638		12707	10	042
5133 639		42150	29	910
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0	left_Age_Group_0_2 60075		e_Group_30_49 l 178435	eft_Age_Group_50 89679
0 1	50322	23	160933	88978
2 3 4	7070 8753		41515 35561	21019 17488
4	30497		109818	61334
635 636 637 638	1976 1978 10233 1878 5735	33 36	12543 60089 12088 30741	9428 37434 5922 17464

639 128402 76332 33128 [640 rows x 25 columns]