

```
[2] Import pandas as pd
data = pd.read_csv(r"content\file.csv")

data.head()

District_code State_name District_name Population Male Female Literate Workers Male_Workers Female_Workers ... Christians Sikhs Buddhists Jains Secondary_Education Higher_Education Graduate_Education Age_Group_8_29 Age_Group_30_49 Age_Group_50
0 1 JAMMU AND KASHMIR Kupwara 870354 474190 396164 438054 229054 190899 38185 ... 1700 5800 86 39 74848 38709 21751 600759 178435 88678
1 2 JAMMU AND KASHMIR Baramulla 753745 398041 355704 335649 214866 162578 52288 ... 1489 5559 47 6 66459 41367 27950 503223 160933 88678
2 3 JAMMU AND KASHMIR Leh(Ladakh) 133467 78871 54516 92772 75079 53205 ... 21814 ... 858 1082 88835 103 16285 8823 6187 70703 41515 21018
3 4 JAMMU AND KASHMIR Kargil 140802 77785 63017 86236 51873 39839 12034 ... 804 1171 20126 28 16638 9808 3077 87532 33581 17486
4 5 JAMMU AND KASHMIR Poonch 476835 251899 224936 281724 161393 117877 43718 ... 958 11188 83 10 46082 29517 13962 304979 108819 61354
5 rows x 25 columns

[ ] # hiding of index column

[5] data.style.hide_index()

613 TAMIL NADU Kanyakumari 1064493 538184 526309 727044 543298 329034 214264 85872 200897 11340 993665 53292 16483 115 29 7 146686 77874 85095 591585 320645
614 TAMIL NADU Tiruchirappalli 2722290 1332284 1370006 2038981 1215879 783296 424773 170869 376782 30388 2279413 180964 246158 324 250 658 418830 223178 291506 1346881 797258
615 TAMIL NADU Pudukottai 388235 202517 205896 378523 289726 162889 137087 117504 115278 3543 58168 20702 10031 83 39 28 71680 21487 44025 291371 158518
616 TAMIL NADU Aiyalur 754894 374703 380191 489064 309881 213547 147364 107310 168897 18564 768397 7942 37402 104 84 65 98880 53034 57824 380484 218103
617 TAMIL NADU Gudalur 2609514 1311897 1294517 1810281 1169980 749633 420247 180170 529412 32077 2381675 123748 83334 401 236 1380 369982 186394 227330 1394411 759689
618 TAMIL NADU Nagercoil 1816450 788127 102833 1213008 671994 461174 210820 67482 345057 11555 1136072 138617 47979 184 480 963 249830 122590 125639 828444 463328
619 TAMIL NADU Thiruvannur 1264277 626693 637584 845471 540168 369853 170315 69883 295188 10440 1132785 96082 33182 258 151 279 203430 103808 96082 627880 377118
620 TAMIL NADU Thanjavur 2408890 1182416 1225474 1790988 974079 680483 292586 129913 413381 31200 2073870 190814 133871 231 795 1286 373111 178128 222410 1193095 712017
621 TAMIL NADU Pudukkottai 1618345 803188 815157 1010453 781893 471099 230594 208270 305149 13841 1428784 114194 72850 119 81 32 251855 121708 111731 835853 470428
622 TAMIL NADU Sivaganga 1339101 666872 674249 959744 620171 391305 228896 141003 199563 14656 1188078 74310 75481 150 80 109 198283 103903 115894 666218 391396
623 TAMIL NADU Madurai 3038252 1526575 1511777 2273430 1354832 902704 451928 92718 372828 47293 2760502 168881 97711 520 199 1532 453509 250285 383152 1528178 913715
624 TAMIL NADU Thuraiyur 1345899 625883 620218 870080 581842 368900 222742 98387 315181 14839 1148990 56751 37574 152 79 28 156876 95231 121147 618823 373864
625 TAMIL NADU Virudhunagar 1842288 897529 914579 1386768 890106 679181 371047 37153 209182 38298 182026 47628 67425 243 67 89 230321 126306 167926 987528 576509
626 TAMIL NADU Ramanathapuram 1834446 868888 870787 878848 620977 393781 210288 172767 103874 26288 1507411 280389 91138 154 84 29 189180 108978 97405 768392 389394
627 TAMIL NADU Thoothukudi 1790176 880201 889356 1348697 746395 503727 244368 46015 209643 32863 1373603 80740 291908 127 286 53 227154 133610 158813 887717 689277
628 TAMIL NADU Tirunelveli 3077233 1520012 1556221 2273457 1436454 878178 580729 115715 379783 238654 2426560 303368 342254 268 373 144 390495 220088 247836 1854277 876129
629 TAMIL NADU Kanyakumari 1870374 930345 940009 1549738 879630 524629 154991 15610 72887 38789 908672 76930 878209 160 438 156 322511 228312 254107 887032 556548
630 TAMIL NADU Dharmapuri 1506483 774303 732580 917708 751170 446057 305113 201328 287345 15341 1425266 38304 14089 164 39 37 177877 103367 112892 804186 434328
631 TAMIL NADU Kodaikannal 1878809 960332 919577 1187958 877779 561634 316145 236038 283328 21918 1723737 115303 36956 468 121 373 276894 133744 137081 1034474 533183
632 TAMIL NADU Kanyakumari 3468045 1729297 1728748 2635907 1507950 1083125 484625 86217 230026 50085 3044145 211029 190314 1112 435 3284 526185 273008 440330 1579517 1117221
633 TAMIL NADU Tirupur 2479052 1246159 1232893 1780586 1286137 819783 446304 126817 246333 40888 2278635 123983 70015 455 198 371 298835 170870 179733 1177887 784838
634 PONDICHERY Yaman 55628 27301 28355 36274 16760 14047 2713 291 3324 146 53537 1191 873 3 1 4 8044 4101 3638 31973 15235
635 PONDICHERY PONDICHERY 950289 468256 482031 728649 348105 206852 91493 51908 6300 852038 12874 56328 245 366 1338 124842 81519 134087 473795 299746
636 PONDICHERY Karaikal 41815 19143 22673 26470 11820 5883 2709 62 63 2940 12552 858 3 3 21 14 8773 5714 4475 18390 12543
637 PONDICHERY Karaikal 20222 9789 102413 154918 68201 53139 15182 2372 13077 1327 126258 28820 18031 48 63 54 29456 19000 18896 102333 60889
638 ANDAMAN AND NICOBAR ISLANDS Nicobars 36842 20727 16515 25332 17125 12714 4411 322 242 2550 8861 1336 20077 343 119 0 6325 3668 1300 18786 12018
639 ANDAMAN AND NICOBAR ISLANDS North AND Middle Andaman 105597 54851 50738 78683 38579 30812 7957 10727 1915 280 81183 2185 21870 77 84 4 12707 10042 5133 57350 30741
640 ANDAMAN AND NICOBAR ISLANDS South Andaman 238142 127283 110859 190256 95631 77583 15056 5518 2624 907 174452 28912 30037 866 135 27 42150 29910 22386 128402 76332
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Or completed at 10:58 AM

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[ ] # giving caption to the dataset

[9] data.style.set_caption('INDIA CENSUS DATASET')

District_code State_name District_name Population Male Female Literate Workers Male_Workers Female_Workers Cultivator_Workers Agricultural_Workers Household_Workers Hindus Muslins Christians Sikhs Buddhists Jains Secondary_Education Higher_Education Graduate_Education Age_Group_8_29 Age_Group_30_49 Age_Group_50
0 1 JAMMU AND KASHMIR Kupwara 870354 474190 396164 438054 229054 190899 38185 34680 56759 7946 37128 823286 1700 5800 86 39 74848 38709 21751 600759 178435 88678
1 2 JAMMU AND KASHMIR Baramulla 753745 398041 355704 335649 214866 162578 52288 55299 36630 29102 10110 736054 1489 5559 47 6 66459 41367 27950 503223 160933 88678
2 3 JAMMU AND KASHMIR Leh(Ladakh) 133467 78871 54516 92772 75079 53205 21814 20869 8570 1022 23882 19067 858 1082 88835 103 16285 8823 6187 70703
3 4 JAMMU AND KASHMIR Kargil 140802 77785 63017 86236 51873 39839 12034 8286 3763 1222 10341 108238 804 1171 20126 28 16638 9808 3077 87532
4 5 JAMMU AND KASHMIR Poonch 476835 251899 224936 281724 161393 117877 43718 54264 31983 3630 32604 431279 958 11188 83 10 46082 29517 13962 304979 108819 61354
5 6 JAMMU AND KASHMIR Rajouri 624215 345351 297064 364109 230812 184732 106180 136527 24016 4656 22180 402879 963 15513 189 26 65021 35804 18578 404903 18578
6 7 JAMMU AND KASHMIR Kathua 616435 320109 296328 388204 200431 161548 38883 89533 21956 3952 54063 64234 1828 9551 24 16 91822 47894 24330 337864 161548
7 8 JAMMU AND KASHMIR Baramulla 1008039 534733 473308 945149 304200 249581 54619 57495 62246 15084 30621 959185 1497 14770 140 29 107637 57932 48285 605524 291506
8 9 JAMMU AND KASHMIR Baramulla 382232 207680 184552 188979 148917 101380 47937 28232 32882 20484 8439 382006 572 555 44 17 35630 18844 12721 252378 121856
9 10 JAMMU AND KASHMIR Srinagar 1238609 651124 587505 748594 407188 333151 74037 12228 10408 20095 42540 1177342 2746 12187 285 74 178409 132727 121856 892238 576509
10 11 JAMMU AND KASHMIR Ganderbal 297448 158720 138728 143278 100890 73305 27585 15337 19312 7830 5592 290581 406 488 25 8 28247 15005 9633 194165 121856
11 12 JAMMU AND KASHMIR Pulwama 860440 230604 267378 283938 188420 138428 49982 48746 34080 10815 13840 535159 1108 9440 36 6 87268 40931 31286 342601 121856
12 13 JAMMU AND KASHMIR Shopian 266215 136480 129735 136500 87721 63891 23790 47424 10835 3395 3116 262263 429 178 6 1 28617 16501 10782 170086 121856
13 14 JAMMU AND KASHMIR Anantnag 1078692 559767 518923 945032 385884 244032 145552 140557 78364 16322 13180 1057005 1449 6140 95 7 97121 52407 41570 704145 121856
14 15 JAMMU AND KASHMIR Kulgam 424483 217620 206863 230985 159990 102317 57673 69173 29928 6193 4267 418076 480 1035 27 25 40383 24214 15240 265688 121856
15 16 JAMMU AND KASHMIR Doda 409938 215641 194295 219083 151912 101144 50786 69947 12199 1932 187821 220814 472 422 21 22 48359 31418 12647 263578 121856
16 17 JAMMU AND KASHMIR Ramban 283713 149132 134581 124085 87212 65478 18738 41394 8810 2538 81026 200516 414 753 43 3 22591 13331 4923 185626 121856
17 18 JAMMU AND KASHMIR Kathua 230698 120165 110531 107596 82974 58779 26195 38271 16296 1186 93831 133205 277 450 2084 3 19850 14521 5438 145931 121856
18 19 JAMMU AND KASHMIR Udhampur 554985 296784 258201 322234 243872 163845 79827 113030 11396 2541 489044 59771 1962 3418 106 57 55024 29857 17345 339145 121856

# record related to the districts

[11] data[data['District_name'].isin(['New Delhi','Lucknow','Jaipur'])]

District_code State_name District_name Population Male Female Literate Workers Male_Workers Female_Workers ... Christians Sikhs Buddhists Jains Secondary_Education Higher_Education Graduate_Education Age_Group_8_29 Age_Group_30_49 Age_Group_50
89 94 NCT OF DELHI New Delhi 142004 77942 64062 114179 59541 48940 12601 ... 4852 2933 312 679 15942 17742 23934 78076 43913 21773
109 110 RAJASTHAN Jaipur 6626178 3468527 3157671 4300665 2464893 1714847 748846 ... 12758 18762 1020 81079 695389 455527 703873 4091148 1645480 884057
198 157 UTTAR PRADESH Lucknow 4588638 2384476 2195932 3127260 1542806 1258399 316407 ... 20469 23963 3877 4975 428121 378142 636260 2678269 1161686 680258
3 rows x 26 columns
```

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[ ] #multistate state used
#total number of population
#total number of population with different religions

[13] data.groupby('State_name').Population.sum().sort_values()

State_name
LAKSHADWEEP      64473
DAMAN AND DIU    242547
DADRA AND NAGAR HAVELI 343789
ANDAMAN AND NICOBAR ISLANDS 396493
SINCHIN           618577
CHANDIGARH        850448
MIZORAM           1897286
PONDICHERY        1247953
ARUNACHAL PRADESH 1383727
GOA               1458445
NAGALAND          1978582
MIZORAM           2655296
MIZORAM           2668889
MIZORAM           3673937
MIZORAM           6864692
UTTARAKHAND       18886292
JAMMU AND KASHMIR 15451392
NCT OF DELHI      16787941
HARYANA           23351462
CHHATTISGARH      25451388
PUNJAB            27403338
ASSAM             31295376
JHARKHAND         32888314
KERALA            33488861
ODISSA            48742110
GUJARAT           68419692
KARNATAKA         64895297
RAJASTHAN         68548437
TAMIL NADU        72474704
MADHYA PRADESH    72628889
ANDHRA PRADESH    84588777
WEST BENGAL       91276115
BIHAR             184894632
MAHARASHTRA       112743333
UTTAR PRADESH     199812341
Name: Population, dtype: int64

[14] data.columns
Index(['District_code', 'State_name', 'District_name', 'Population', 'Male',
      'Female', 'Literate', 'Workers', 'Male_Workers', 'Female_Workers',
      'Cultivator_Workers', 'Agricultural_Workers', 'Household_Workers',
      'Hindus', 'Muslims', 'Christians', 'Sikhs', 'Buddhists', 'Jains'],
      dtype=object)

data.groupby('State_name')['Hindus', 'Muslims', 'Christians', 'Sikhs', 'Buddhists', 'Jains'].sum().sort_values(by='Hindus')
<ipython-input-17-70884a8d3f8b>:1: FutureWarning: Indexing with multiple keys (implicitly converted to a tuple of keys) will be deprecated, use a list instead.
data.groupby('State_name')['Hindus', 'Muslims', 'Christians', 'Sikhs', 'Buddhists', 'Jains'].sum().sort_values(by='Hindus')

State_name
LAKSHADWEEP      1788    62208    317      8      10     11
MIZORAM          30136   14832   956331   286   93411   378
NAGALAND         173054  48963  1738651  1880  6759  2655
DAMAN AND DIU    220150  19277   2820    172   217   287
ANDAMAN AND NICOBAR ISLANDS 284296  32413  80884  1286   338   31
DADRA AND NAGAR HAVELI 322857  12922   5113   217   634  1186
MEGHALAYA        342078  130399  2213027  3045  8864  627
BISKIN           302062   8687   60052  1888  167218  314
ARUNACHAL PRADESH 491876  27045  418732  3287  162815  771
CHANDIGARH       802514  51467   8720  183039  1160  1860
GOA              803877  121564  366150  1673  1090  1109
PONDICHERY       1083409  76558  78550   297   491  1420
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[ ] #how many male workers in maharashtra

[18] data.head(2)

State_name District_name Population Male Female Literate Workers Male_Workers Female_Workers ... Christians Sikhs Buddhists Jains Secondary_Education Higher_Education Graduate_Education Age_Group_8_29 Age_Group_30_49 Age_Group_50
0 1 JAMMU AND KASHMIR Kupwara 870354 474190 396164 439654 220654 190899 38165 ... 1700 5600 66 39 74948 39709 21751 800759 178435 89679
1 2 JAMMU AND KASHMIR Badgam 753745 388041 365704 335649 214886 162578 52288 ... 1489 5559 47 6 66459 41367 27950 503223 160933 88978
2 rows x 25 columns

[22] data[data.State_name == 'MAHARASHTRA']['Male_Workers'].sum()
32616875

[ ] #set a column as index of the dataframe

[23] data.set_index('District_code')

District_code State_name District_name Population Male Female Literate Workers Male_Workers Female_Workers Cultivator_Workers ... Christians Sikhs Buddhists Jains Secondary_Education Higher_Education Graduate_Education Age_Group_8_29 Age_Group_30_49 Age_Group_50
1 JAMMU AND KASHMIR Kupwara 870354 474190 396164 439654 220654 190899 38165 ... 1700 5600 66 39 74948 39709 21751 800759 178435 89679
2 JAMMU AND KASHMIR Badgam 753745 388041 365704 335649 214886 162578 52288 ... 1489 5559 47 6 66459 41367 27950 503223 160933 88978
3 JAMMU AND KASHMIR Leh(Ladakh) 133487 78971 54516 93770 75079 53265 21814 ... 658 1092 88935 103 16265 8923 6187 70702 41515 21019
4 JAMMU AND KASHMIR Kargil 140802 77785 63017 86236 51873 39639 12034 ... 604 1171 20126 28 16938 9638 3077 87302 35561 17488
5 JAMMU AND KASHMIR Puncn 479835 251899 228436 281724 161393 117677 43716 54264 ... 958 11188 83 10 46082 28617 13882 304079 108818 61334
... ..
636 PONDICHERY Mahe 41816 19143 22873 36470 11802 9093 2709 43 ... 958 3 21 14 8773 5711 4476 19760 12543 9428
637 PONDICHERY Karaikal 200222 97809 102413 154916 68301 53139 15162 2372 ... 18391 46 63 54 29456 15930 18998 102333 60089 37434
638 ANDAMAN AND NICOBAR ISLANDS Nicobars 36842 20727 16115 25332 17125 12714 4411 322 ... 26077 343 119 0 6325 3668 1300 18786 13088 5922
639 ANDAMAN AND NICOBAR ISLANDS North And Middle Andaman 105997 54681 50736 78883 38579 30812 7967 10727 ... 21870 77 84 4 12707 10042 5133 87300 30741 17464
640 ANDAMAN AND NICOBAR ISLANDS South Andaman 238142 127283 110859 180296 96831 77563 16288 5518 ... 33037 866 135 27 42190 29910 22388 128402 76332 33128
640 rows x 24 columns

[24] data.head(2)

District_code State_name District_name Population Male Female Literate Workers Male_Workers Female_Workers ... Christians Sikhs Buddhists Jains Secondary_Education Higher_Education Graduate_Education Age_Group_8_29 Age_Group_30_49 Age_Group_50
0 1 JAMMU AND KASHMIR Kupwara 870354 474190 396164 439654 220654 190899 38165 ... 1700 5600 66 39 74948 39709 21751 800759 178435 89679
1 2 JAMMU AND KASHMIR Badgam 753745 388041 365704 335649 214886 162578 52288 ... 1489 5559 47 6 66459 41367 27950 503223 160933 88978
2 rows x 25 columns

[25] data.add_suffix('_rightone')

District_code_rightone State_name_rightone District_name_rightone Population_rightone Male_rightone Female_rightone Literate_rightone Workers_rightone Male_Workers_rightone Female_Workers_rightone ... Christians_rightone Sikhs_rightone Buddhists_rightone Jains_rightone Secondary_Education_rightone Higher_Educ
636 636 PONDICHERY Mahe 41816 19143 22873 36470 11802 9093 2709 43 ... 958 3 21 14 8773
636 637 PONDICHERY Karaikal 200222 97809 102413 154916 68301 53139 15162 ... 18391 46 63 54 29456
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