

In []:

```
In [6]: import pandas as pd
data = pd.read_csv("/Users/subhamgiri/Downloads/file.csv")
```

In [7]: data.head()

Out[7]:

	District_code	State_name	District_name	Population	Male	Female	Literate	Workers	Male_Workers	Female_Workers	...	Christians	Sikhs	Budd
0	1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	229064	190899	38165	...	1700	5600	
1	2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	214866	162578	52288	...	1489	5559	
2	3	JAMMU AND KASHMIR	Leh(Ladakh)	133487	78971	54516	93770	75079	53265	21814	...	658	1092	8
3	4	JAMMU AND KASHMIR	Kargil	140802	77785	63017	86236	51873	39839	12034	...	604	1171	2
4	5	JAMMU AND KASHMIR	Punch	476835	251899	224936	261724	161393	117677	43716	...	958	11188	

5 rows × 25 columns

In [8]: data.style.hide_index()

Out[8]:

	District_code	State_name	District_name	Population	Male	Female	Literate	Workers	Male_Workers	Female_Workers	Cultivator_Workers
	1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	229064	190899	38165	34680
	2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	214866	162578	52288	55299
	3	JAMMU AND KASHMIR	Leh(Ladakh)	133487	78971	54516	93770	75079	53265	21814	20869
	4	JAMMU AND KASHMIR	Kargil	140802	77785	63017	86236	51873	39839	12034	8266
	5	JAMMU AND KASHMIR	Punch	476835	251899	224936	261724	161393	117677	43716	54264
	6	JAMMU AND KASHMIR	Rajouri	642415	345351	297064	364109	290912	184752	106160	136527
	7	JAMMU AND KASHMIR	Kathua	616435	326109	290326	389204	200431	161548	38883	69533

In [9]: data.head(2)

Out[9]:

	District_code	State_name	District_name	Population	Male	Female	Literate	Workers	Male_Workers	Female_Workers	...	Christians	Sikhs	Budd
0	1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	229064	190899	38165	...	1700	5600	
1	2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	214866	162578	52288	...	1489	5559	

2 rows × 25 columns

In [10]: data.style.set_caption('India Cencus 2011 dataset')

27	28	PRADESH	Hamirpur	454768	217070	237698	358091	241931	118724	123207	14
28	29	HIMACHAL PRADESH	Una	521173	263692	257481	399715	215346	141612	73734	8
29	30	HIMACHAL PRADESH	Bilaspur	381956	192764	189192	287620	205871	111543	94328	12
30	31	HIMACHAL PRADESH	Solan	580320	308754	271566	428578	298737	190001	108736	14
31	32	HIMACHAL PRADESH	Sirmaur	529855	276289	253566	362645	280083	169399	110684	18
32	33	HIMACHAL PRADESH	Shimla	814010	425039	388971	612642	430926	258628	172298	24
33	34	HIMACHAL PRADESH	Kinnaur	84121	46249	37872	60699	56273	33863	22410	3
34	35	PUNJAB	Gurdaspur	2298323	1212617	1085706	1634719	757138	637652	119486	14
35	36	PUNJAB	Kapurthala	815168	426311	388857	576567	284165	235562	48603	5
36	37	PUNJAB	Jalandhar	2193590	1145211	1048379	1622537	774472	639484	134988	8

```
In [13]: data[data['District_name'].isin(['New Delhi','Lucknow','Jaipur'])]
```

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Out[13]:
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	District_code	State_name	District_name	Population	Male	Female	Literate	Workers	Male_Workers	Female_Workers	...	Christians	Sikhs
	93	94	NCT OF DELHI	New Delhi	142004	77942	64062	114179	59541	46940	12601	...	4852 2933
	109	110	RAJASTHAN	Jaipur	6626178	3468507	3157671	4300965	2464893	1714947	749946	...	12708 18782
	156	157	UTTAR PRADESH	Lucknow	4589838	2394476	2195362	3127260	1542806	1226399	316407	...	20493 23883

3 rows × 25 columns

```
In [14]: data.head(2)
```

```
Out[14]:
```

	District_code	State_name	District_name	Population	Male	Female	Literate	Workers	Male_Workers	Female_Workers	...	Christians	Sikhs	Budd
0	1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	229064	190899	38165	...	1700	5600	
1	2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	214866	162578	52288	...	1489	5559	

2 rows × 25 columns

```
In [18]: data.groupby('State_name').Population.sum().sort_values(ascending=False)
```

```
Out[18]:
```

```
State_name
UTTAR PRADESH      199812341
MAHARASHTRA        112374333
BIHAR               104099452
WEST BENGAL         91276115
ANDHRA PRADESH      84580777
MADHYA PRADESH      72626809
TAMIL NADU          72147030
RAJASTHAN           68548437
KARNATAKA           61095297
GUJARAT             60439692
ORISSA              41974218
KERALA              33406061
JHARKHAND           32988134
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
GOA                 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
```

```
In [19]: data.columns
```

```
Out[19]: 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',
                'Secondary_Education', 'Higher_Education', 'Graduate_Education',
                'Age_Group_0_29', 'Age_Group_30_49', 'Age_Group_50'],
                dtype='object')
```

```
In [21]: data.groupby('State_name')['Hindus', 'Muslims', 'Christians', 'Sikhs', 'Buddhists', 'Jains'].sum().sort_values(b
/var/folders/44/2s67vdx5bjgb7b3h87wlk_800000gn/T/ipykernel_69020/2422616884.py: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_value
s(by='Hindus')
```

Out[21]:

	Hindus	Muslims	Christians	Sikhs	Buddhists	Jains
State_name						
LAKSHADWEEP	1788	62268	317	8	10	11
MIZORAM	30136	14832	956331	286	93411	376
NAGALAND	173054	48963	1739651	1890	6759	2655
DAMAN AND DIU	220150	19277	2820	172	217	287
ANDAMAN AND NICOBAR ISLANDS	264296	32413	80984	1286	338	31
DADRA AND NAGAR HAVELI	322857	12922	5113	217	634	1186
MEGHALAYA	342078	130399	2213027	3045	9864	627
SIKKIM	352662	9867	60522	1868	167216	314
ARUNACHAL PRADESH	401876	27045	418732	3287	162815	771
CHANDIGARH	852574	51447	8720	138329	1160	1960
GOA	963877	121564	366130	1473	1095	1109
PONDICHERRY	1089409	75556	78550	297	451	1400
MANIPUR	1181876	239836	1179043	1527	7084	1692
TRIPURA	3063903	316042	159882	1070	125385	860
JAMMU AND KASHMIR	3566674	8567485	35631	234848	112584	2490
HIMACHAL PRADESH	6532765	149881	12646	79896	78659	1805
UTTARAKHAND	8368636	1406825	37781	236340	14926	9183
PUNJAB	10678138	535489	348230	16004754	33237	45040
NCT OF DELHI	13712100	2158684	146093	570581	18449	166231
KERALA	18282492	8873472	6141269	3814	4752	4489
ASSAM	19180759	10679345	1165867	20672	54993	25949
HARYANA	22171128	1781342	50353	1243752	7514	52613
JHARKHAND	22376051	4793994	1418608	71422	8956	14974
CHHATTISGARH	23819789	514998	490542	70036	70467	61510
ORISSA	39300341	911670	1161708	21991	13852	9420
KARNATAKA	51317472	7893065	1142647	28773	95710	440280
GUJARAT	53533988	5846761	316178	58246	30483	579654
RAJASTHAN	60657103	6215377	96430	872930	12185	622023
TAMIL NADU	63188168	4229479	4418331	14601	11186	89265
WEST BENGAL	64385546	24654825	658618	63523	282898	60141
MADHYA PRADESH	66007121	4774695	213282	151412	216052	567028
ANDHRA PRADESH	74824149	8082412	1129784	40244	36692	53849
BIHAR	86078686	17557809	129247	23779	25453	18914
MAHARASHTRA	89703057	12971152	1080073	223247	6531200	1400349
UTTAR PRADESH	159312654	38483967	356448	643500	206285	213267

```
In [22]: data.head(2)
```

Out[22]:

	District_code	State_name	District_name	Population	Male	Female	Literate	Workers	Male_Workers	Female_Workers	...	Christians	Sikhs	Budd
0	1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	229064	190899	38165	...	1700	5600	
1	2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	214866	162578	52288	...	1489	5559	

2 rows × 25 columns

```
In [26]: data[data.State_name == 'MAHARASHTRA']['Male_Workers'].sum()
```

Out[26]: 32616875

```
In [27]: data.set_index('District_code')
```

```
Out[27]:
```

	State_name	District_name	Population	Male	Female	Literate	Workers	Male_Workers	Female_Workers	Cultivator_Workers	...	Chri
District_code												
1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	229064	190899	38165	34680	...	
2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	214866	162578	52288	55299	...	
3	JAMMU AND KASHMIR	Leh(Ladakh)	133487	78971	54516	93770	75079	53265	21814	20869	...	
4	JAMMU AND KASHMIR	Kargil	140802	77785	63017	86236	51873	39839	12034	8266	...	
5	JAMMU AND KASHMIR	Punch	476835	251899	224936	261724	161393	117677	43716	54264	...	
...
636	PONDICHERRY	Mahe	41816	19143	22673	36470	11802	9093	2709	43	...	
637	PONDICHERRY	Karaikal	200222	97809	102413	154916	68301	53139	15162	2372	...	
638	ANDAMAN AND NICOBAR ISLANDS	Nicobars	36842	20727	16115	25332	17125	12714	4411	322	...	
639	ANDAMAN AND NICOBAR ISLANDS	North AND Middle Andaman	105597	54861	50736	78683	38579	30612	7967	10727	...	
640	ANDAMAN AND NICOBAR ISLANDS	South Andaman	238142	127283	110859	190266	96831	77563	19268	5518	...	

640 rows × 24 columns

```
In [28]: data.add_suffix('_rightone')
```

```
Out[28]:
```

	District_code_rightone	State_name_rightone	District_name_rightone	Population_rightone	Male_rightone	Female_rightone	Literate_rightone	Workers
0	1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	
1	2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	
2	3	JAMMU AND KASHMIR	Leh(Ladakh)	133487	78971	54516	93770	
3	4	JAMMU AND KASHMIR	Kargil	140802	77785	63017	86236	
4	5	JAMMU AND KASHMIR	Punch	476835	251899	224936	261724	
...
635	636	PONDICHERRY	Mahe	41816	19143	22673	36470	
636	637	PONDICHERRY	Karaikal	200222	97809	102413	154916	
637	638	ANDAMAN AND NICOBAR ISLANDS	Nicobars	36842	20727	16115	25332	
638	639	ANDAMAN AND NICOBAR ISLANDS	North AND Middle Andaman	105597	54861	50736	78683	
639	640	ANDAMAN AND NICOBAR ISLANDS	South Andaman	238142	127283	110859	190266	

640 rows × 25 columns

```
In [29]: data.add_prefix('leftone_')
```

```
Out[29]:
```

	leftone_District_code	leftone_State_name	leftone_District_name	leftone_Population	leftone_Male	leftone_Female	leftone_Literate	leftone_Workers
0	1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	229064
1	2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	214866
2	3	JAMMU AND KASHMIR	Leh(Ladakh)	133487	78971	54516	93770	75079
3	4	JAMMU AND KASHMIR	Kargil	140802	77785	63017	86236	51873
4	5	JAMMU AND KASHMIR	Punch	476835	251899	224936	261724	161393
...
635	636	PONDICHERRY	Mahe	41816	19143	22673	36470	11802
636	637	PONDICHERRY	Karaikal	200222	97809	102413	154916	68301
637	638	ANDAMAN AND NICOBAR ISLANDS	Nicobars	36842	20727	16115	25332	17125
638	639	ANDAMAN AND NICOBAR ISLANDS	North AND Middle Andaman	105597	54861	50736	78683	38579
639	640	ANDAMAN AND NICOBAR ISLANDS	South Andaman	238142	127283	110859	190266	96831

640 rows × 25 columns

```
In [30]: data
```

```
Out[30]:
```

	District_code	State_name	District_name	Population	Male	Female	Literate	Workers	Male_Workers	Female_Workers	...	Christians	Sikhs
0	1	JAMMU AND KASHMIR	Kupwara	870354	474190	396164	439654	229064	190899	38165	...	1700	5600
1	2	JAMMU AND KASHMIR	Badgam	753745	398041	355704	335649	214866	162578	52288	...	1489	5559
2	3	JAMMU AND KASHMIR	Leh(Ladakh)	133487	78971	54516	93770	75079	53265	21814	...	658	1092
3	4	JAMMU AND KASHMIR	Kargil	140802	77785	63017	86236	51873	39839	12034	...	604	1171
4	5	JAMMU AND KASHMIR	Punch	476835	251899	224936	261724	161393	117677	43716	...	958	11188
...
635	636	PONDICHERRY	Mahe	41816	19143	22673	36470	11802	9093	2709	...	958	3
636	637	PONDICHERRY	Karaikal	200222	97809	102413	154916	68301	53139	15162	...	18391	46
637	638	ANDAMAN AND NICOBAR ISLANDS	Nicobars	36842	20727	16115	25332	17125	12714	4411	...	26077	343
638	639	ANDAMAN AND NICOBAR ISLANDS	North AND Middle Andaman	105597	54861	50736	78683	38579	30612	7967	...	21870	77
639	640	ANDAMAN AND NICOBAR ISLANDS	South Andaman	238142	127283	110859	190266	96831	77563	19268	...	33037	866

640 rows × 25 columns

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In [ ]:
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