

TEST SCREENSHOTS

LOADING DATA FROM API:

```
127.0.0.1 - [24/DEC/2023 00:09:02] GET /search?province=Punjab HTTP/1.1 200 -
PS D:\KarachiAi\Data Acquisition and Orchestration\Week2 (apis and flask)\Assignment\code> python .\script_to_compile_data.py
Loaded data for 2008
Loaded data for 2013
Loaded data for 2018
PS D:\KarachiAi\Data Acquisition and Orchestration\Week2 (apis and flask)\Assignment\code>
```

DATA SAVED IN CSV FORMAT:

```
flask_api.py  compile_data.csv X
compile_data.csv > data
1 province,district,constituency_name,pop,no_of_polling_stations,male,female,total,na_name,obtained_votes,candidate_name,party_affiliation,party,year
2 Punjab,Attock,Attock-II,496142,266,165266,150821,316087,NA-58,70743,Ch Pervaiz Ellahi,PML,PML-Q,2008
3 Punjab,Mianwali,Mianwali-II,638480,291,168959,138835,307794,NA-72,49294,Humair Hayat Rokhari,IND,IND,2008
4 Punjab,Rawalpindi,Rawalpindi-VI,570886,250,180922,152097,333019,NA-55,76980,Makhdoom Muhammad Javed Hashmi,PMLN,PMLN,2008
5 Punjab,Lahore,Lahore-I,556480,244,206869,54716,261585,NA-118,55900,Muhammad Riaz,PMLN,PMLN,2008
6 Punjab,Attock,Attock-I,531585,236,157917,120004,277921,NA-57,38755,Sheikh Aftab Ahmad,PMLN,PMLN,2008
7 Punjab,Mandi Bhaudhin,Mandi Bhaudhin-II,653319,228,180921,128920,309841,NA-109,74163,Nazar Muhammad Gondal,PPP,PPP,2008
8 Punjab,Sargodha,Sargodha-I,633546,334,234881,194185,429066,NA-64,65628,Nadeem Afzal Gondal,PPP,PPP,2008
9 Punjab,Faisalabad,Faisalabad-X,547513,243,138255,109894,248149,NA-84,59616,Abid Ali,PMLN,PMLN,2008
10 Punjab,Multan,Multan-VI,613220,235,189346,160290,349636,NA-153,69246,Dewan Ashiq Hussain Bukhari,PML,PML-Q,2008
11 Punjab,Kasur,Kasur-IV,557751,259,135366,608518,743884,NA-141,58807,Rana Muhammad Ishaq Khan,PMLN,PMLN,2008
12 Punjab,Gujrat,Gujrat-IV,608426,255,167451,154936,322387,NA-107,75205,Muhammad Jamil Malik,PMLN,PMLN,2008
13 Punjab,Sargodha,Sargodha-V,627659,308,208595,174456,383051,NA-68,80174,Syed Javed Hassnain Shah,PMLN,PMLN,2008
14 Punjab,Hafizabad,Hafizabad-I,492716,218,112492,85597,198089,NA-102,56313,Saira Afzal Tarar,PMLN,PMLN,2008
15 Punjab,Sialkot,Sialkot-I,578955,78,227,144213,130334,274547,NA-110,73007,Khawaja Muhammad Asif,PMLN,PMLN,2008
16 Punjab,Rajanpur,Rajanpur-II,652057,224,174640,110401,285041,NA-175,78427,Meer Dost Muhammad Mazari,PPP,PPP,2008
17 Punjab,Gujranwala,Gujranwala-V,578545,231,190106,591934,782040,NA-99,60219,Rana Nazir Ahmad Khan,PMLN,PMLN,2008
18 Punjab,Mianwali,Mianwali-I,597766,282,180267,148960,329227,NA-71,83098,Nawabzada Malik Amad Khan,IND,IND,2008
19 Punjab,Sahiwal,Sahiwal-III,547710,281,134868,109098,243966,NA-162,70634,Ch Zahid Iqbal,PPP,PPP,2008
20 Punjab,Rawalpindi,Rawalpindi-V,543273,201,143658,127834,271492,NA-54,58228,Malik Abrar Ahmad,PMLN,PMLN,2008
21 Punjab,Attock,Attock-III,463947,253,142401,120576,262977,NA-59,71400,Sardar Saleem Haider Khan,PPP,PPP,2008
22 Punjab,Muzaffargarh,Muzaffargarh-I,621469,241,159880,109543,269423,NA-176,50826,Muhammad Mohsin Ali Qureshi,PPP,PPP,2008
23 Punjab,Lahore,Lahore-XII,471077,192,124869,81390,206259,NA-129,36604,Tariq Shabbir Advocate,PPP,PPP,2008
24 Punjab,Muzaffargarh,Muzaffargarh-III,618171,252,163900,120486,284386,NA-178,57946,Jamshed Ahmad Khan Dasti,PPP,PPP,2008
25 Punjab,Lahore,Lahore-IX,626761,267,195856,163086,358942,NA-126,69718,Omer Sohail Zia Butt,PMLN,PMLN,2008
26 Punjab,Pakpattan,Pakpattan-III,508205,225,120588,100070,220658,NA-166,66418,Rana Zahid Hussain Khan,PMLN,PMLN,2008
27 Punjab,Layyah,Layyah-II,691519,262,163309,130790,294099,NA-182,75910,Syed Muhammad Saqlain Bukhari,PMLN,PMLN,2008
28 Punjab,Chakwal,Chakwal-II,608793,363,205314,193830,399144,NA-61,92201,Muhammad Faiz Tamman,PMLN,PMLN,2008
29 Punjab,Rahimyar Khan,Rahimyar Khan-VI,633299,219,200691,151399,352090,NA-197,82565,Sardar Muhammad Arshad Khan Laghari,PMLN,PMLN,2008
```

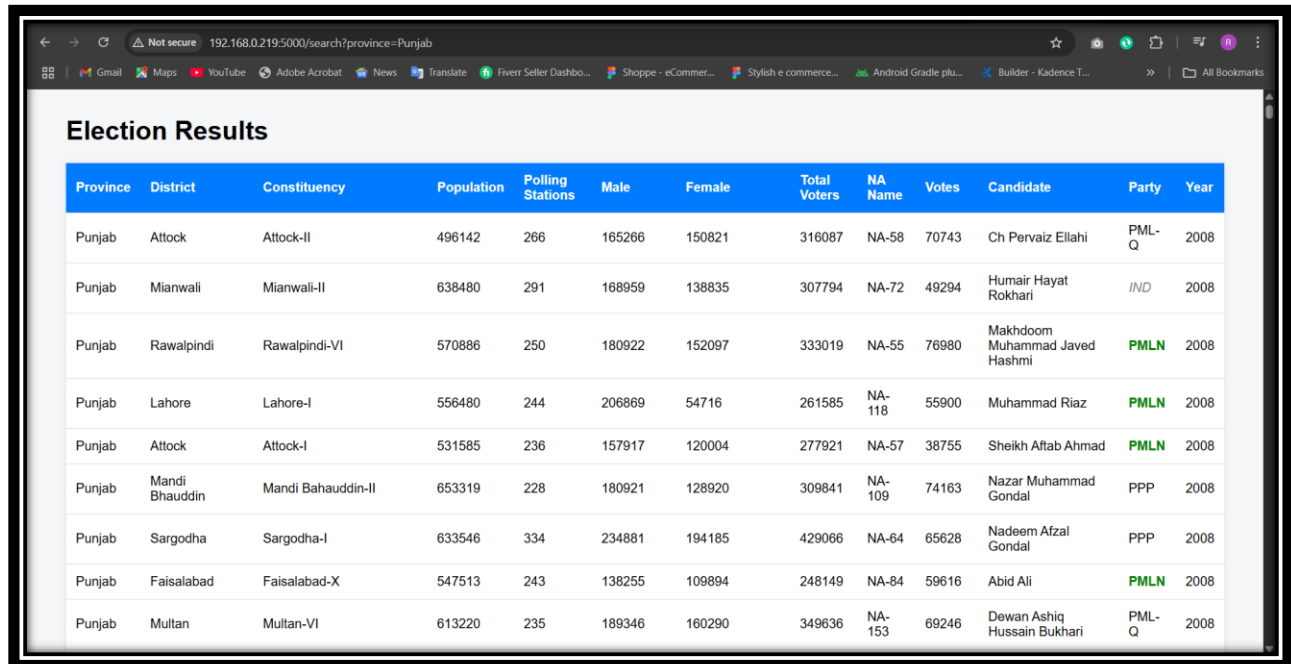
DATA SAVED IN JSON FROMAT:

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flask_api.py  compile_datajson X
compile_datajson > ...
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2  {
3      "province": "Punjab",
4      "district": "Attock",
5      "constituency_name": "Attock-II",
6      "pop": "496142",
7      "no_of_polling_stations": "266",
8      "male": "165266",
9      "female": "150821",
10     "total": "316087",
11     "na_name": "NA-58",
12     "obtained_votes": "70743",
13     "candidate_name": "Ch Pervaiz Ellahi",
14     "party_affiliation": "PML",
15     "party": "PML-Q",
16     "year": "2008"
17 },
18 {
19     "province": "Punjab",
20     "district": "Mianwali",
21     "constituency_name": "Mianwali-II",
22     "pop": "638480",
23     "no_of_polling_stations": "291",
24     "male": "168959",
25     "female": "138835",
26     "total": "307794",
27     "na_name": "NA-72",
28     "obtained_votes": "49294",
29     "candidate_name": "Humair Hayat Rokhari",
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ENDPOINTS

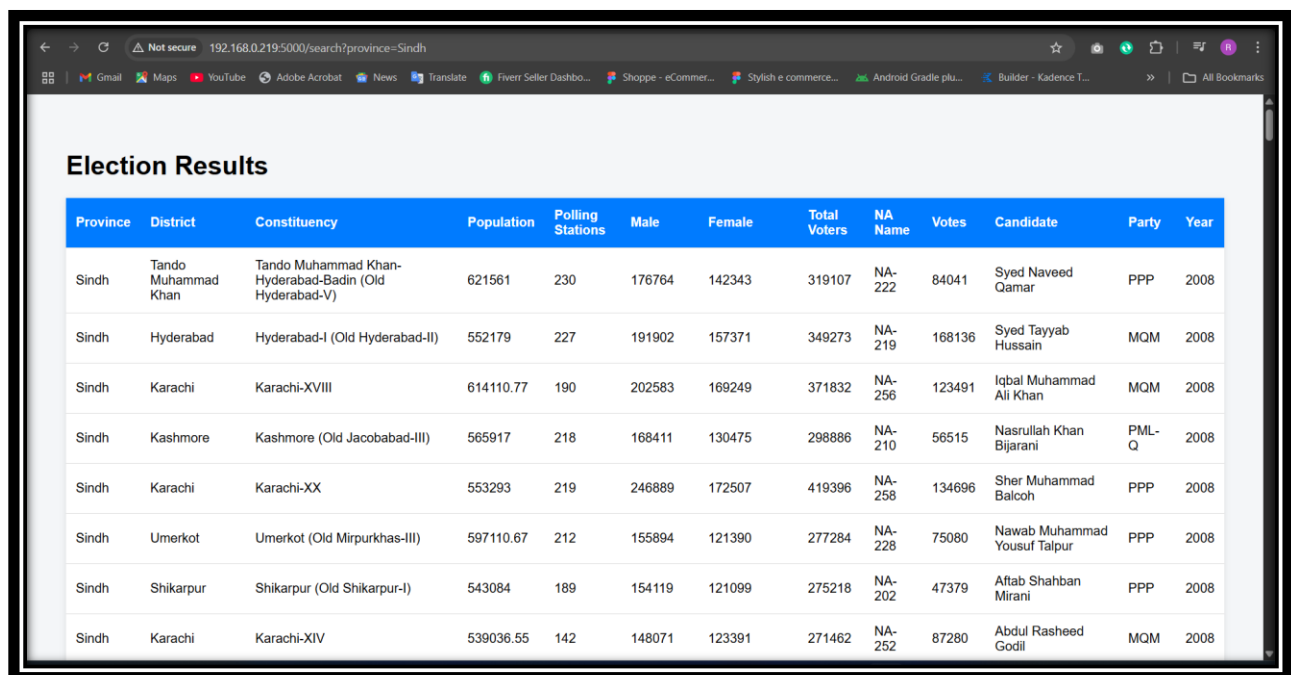
1) PROVINCE ENDPOINT:

For Punjab:



Province	District	Constituency	Population	Polling Stations	Male	Female	Total Voters	NA Name	Votes	Candidate	Party	Year
Punjab	Attock	Attock-II	496142	266	165266	150821	316087	NA-58	70743	Ch Pervaiz Ellahi	PML-Q	2008
Punjab	Mianwali	Mianwali-II	638480	291	168959	138835	307794	NA-72	49294	Humair Hayat Rokhari	IND	2008
Punjab	Rawalpindi	Rawalpindi-VI	570886	250	180922	152097	333019	NA-55	76980	Makhdoom Muhammad Javed Hashmi	PMLN	2008
Punjab	Lahore	Lahore-I	556480	244	206869	54716	261585	NA-118	55900	Muhammad Riaz	PMLN	2008
Punjab	Attock	Attock-I	531585	236	157917	120004	277921	NA-57	38755	Sheikh Aftab Ahmad	PMLN	2008
Punjab	Mandi Bhaudain	Mandi Bhaudain-II	653319	228	180921	128920	309841	NA-109	74163	Nazar Muhammad Gondal	PPP	2008
Punjab	Sargodha	Sargodha-I	633546	334	234881	194185	429066	NA-64	65628	Nadeem Afzal Gondal	PPP	2008
Punjab	Faisalabad	Faisalabad-X	547513	243	138255	109894	248149	NA-84	59616	Abid Ali	PMLN	2008
Punjab	Multan	Multan-VI	613220	235	189346	160290	349636	NA-153	69246	Dewan Ashiq Hussain Bukhari	PML-Q	2008

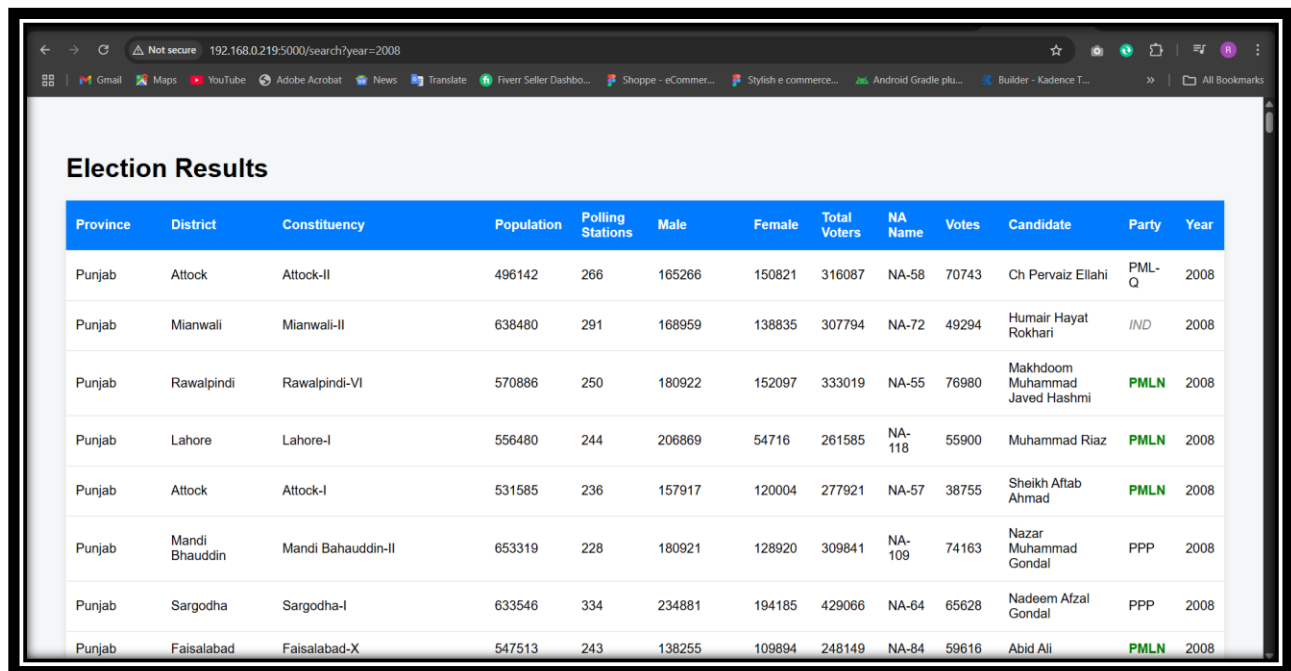
For Sindh:



Province	District	Constituency	Population	Polling Stations	Male	Female	Total Voters	NA Name	Votes	Candidate	Party	Year
Sindh	Tando Muhammad Khan	Tando Muhammad Khan-Hyderabad-Badin (Old Hyderabad-V)	621561	230	176764	142343	319107	NA-222	84041	Syed Naveed Qamar	PPP	2008
Sindh	Hyderabad	Hyderabad-I (Old Hyderabad-II)	552179	227	191902	157371	349273	NA-219	168136	Syed Tayyab Hussain	MQM	2008
Sindh	Karachi	Karachi-XVIII	614110.77	190	202583	169249	371832	NA-256	123491	Iqbal Muhammad Ali Khan	MQM	2008
Sindh	Kashmore	Kashmore (Old Jacobabad-III)	565917	218	168411	130475	298886	NA-210	56515	Nasrullah Khan Bijarani	PML-Q	2008
Sindh	Karachi	Karachi-XX	553293	219	246889	172507	419396	NA-258	134696	Sher Muhammad Baloch	PPP	2008
Sindh	Umerkot	Umerkot (Old Mirpurkhas-III)	597110.67	212	155894	121390	277284	NA-228	75080	Nawab Muhammad Yousuf Talpur	PPP	2008
Sindh	Shikarpur	Shikarpur (Old Shikarpur-I)	543084	189	154119	121099	275218	NA-202	47379	Aftab Shahban Mirani	PPP	2008
Sindh	Karachi	Karachi-XIV	539036.55	142	148071	123391	271462	NA-252	87280	Abdul Rasheed Godil	MQM	2008

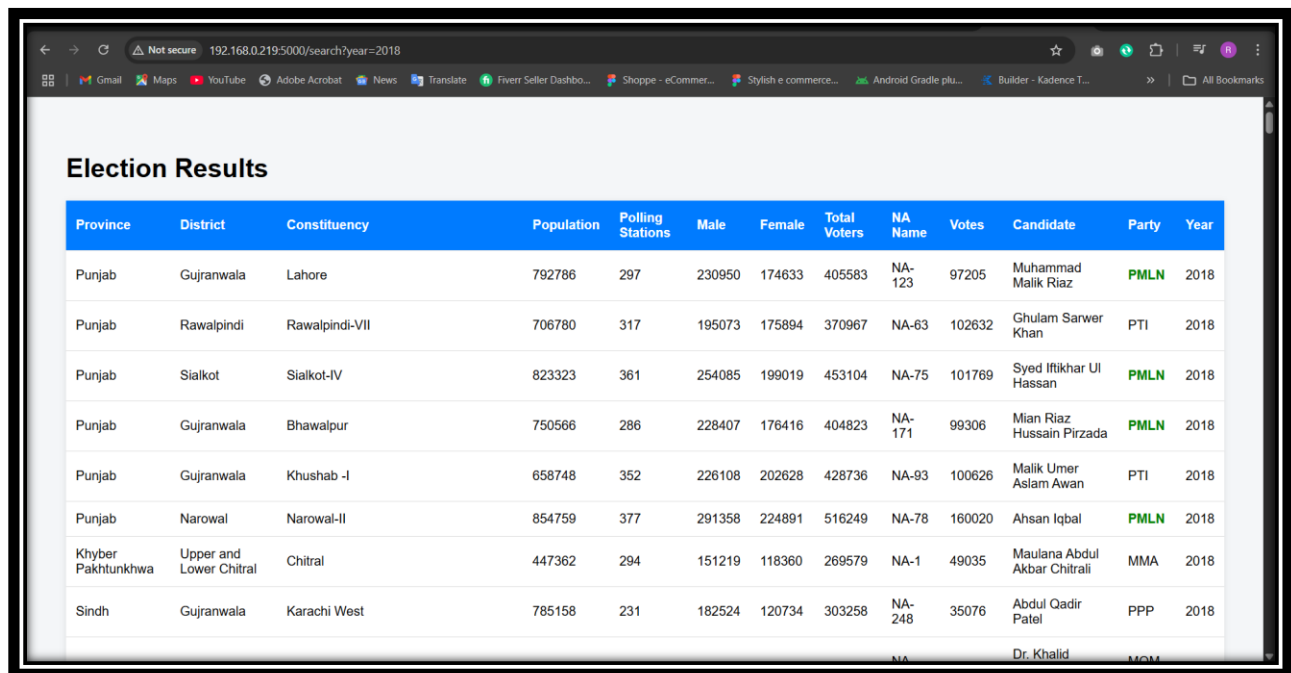
2) YEAR ENDPOINT:

For 2008:



Province	District	Constituency	Population	Polling Stations	Male	Female	Total Voters	NA Name	Votes	Candidate	Party	Year
Punjab	Attock	Attock-II	496142	266	165266	150821	316087	NA-58	70743	Ch Pervaiz Ellahi	PML-Q	2008
Punjab	Mianwali	Mianwali-II	638480	291	168959	138835	307794	NA-72	49294	Humair Hayat Rokhari	IND	2008
Punjab	Rawalpindi	Rawalpindi-VI	570886	250	180922	152097	333019	NA-55	76980	Makhdoom Muhammad Javed Hashmi	PMLN	2008
Punjab	Lahore	Lahore-I	556480	244	206869	54716	261585	NA-118	55900	Muhammad Riaz	PMLN	2008
Punjab	Attock	Attock-I	531585	236	157917	120004	277921	NA-57	38755	Sheikh Aftab Ahmad	PMLN	2008
Punjab	Mandi Bahauddin	Mandi Bahauddin-II	653319	228	180921	128920	309841	NA-109	74163	Nazar Muhammad Gondal	PPP	2008
Punjab	Sargodha	Sargodha-I	633546	334	234881	194185	429066	NA-64	65628	Nadeem Afzal Gondal	PPP	2008
Punjab	Faisalabad	Faisalabad-X	547513	243	138255	109894	248149	NA-84	59616	Abid Ali	PMLN	2008

For 2018:



Province	District	Constituency	Population	Polling Stations	Male	Female	Total Voters	NA Name	Votes	Candidate	Party	Year
Punjab	Gujranwala	Lahore	792786	297	230950	174633	405583	NA-123	97205	Muhammad Malik Riaz	PMLN	2018
Punjab	Rawalpindi	Rawalpindi-VII	706780	317	195073	175894	370967	NA-63	102632	Ghulam Sarwer Khan	PTI	2018
Punjab	Sialkot	Sialkot-IV	823323	361	254085	199019	453104	NA-75	101769	Syed Itikhar Ul Hassan	PMLN	2018
Punjab	Gujranwala	Bhawalpur	750566	286	228407	176416	404823	NA-171	99306	Mian Riaz Hussain Pirzada	PMLN	2018
Punjab	Gujranwala	Khushab-I	658748	352	226108	202628	428736	NA-93	100626	Malik Umer Aslam Awan	PTI	2018
Punjab	Narowal	Narowal-II	854759	377	291358	224891	516249	NA-78	160020	Ahsan Iqbal	PMLN	2018
Khyber Pakhtunkhwa	Upper and Lower Chitral	Chitral	447362	294	151219	118360	269579	NA-1	49035	Maulana Abdul Akbar Chitrali	MMA	2018
Sindh	Gujranwala	Karachi West	785158	231	182524	120734	303258	NA-248	35076	Abdul Qadir Patel	PPP	2018
								NA		Dr. Khalid	MMA	

3) YEAR AND PROVINCE ENDPOINT:

For Balochistan in 2018:

Election Results												
Province	District	Constituency	Population	Polling Stations	Male	Female	Total Voters	NA Name	Votes	Candidate	Party	Year
Balochistan	Gujranwala	Chagai/Nushki/Kharan	560956	252	134678	99613	234291	NA-268	36147	Muhammad Hashim	BNP	2018
Balochistan	Gujranwala	Khuzdar	802207	269	132337	96210	228547	NA-269	53183	Mohammad Akhtar Mengal	BNP	2018
Balochistan	Gujranwala	Kech	909116	236	125995	96636	222631	NA-271	33462	Zubaida Jalal	BAP	2018
Balochistan	Gujranwala	Quetta	728296	156	107146	68819	175965	NA-264	14888	Molvi Asmatullah	MMA	2018
Balochistan	Gujranwala	Quetta	797994	330	181583	139348	320931	NA-265	25979	Qasim Khan Suri	PTI	2018
Balochistan	Gujranwala	Killa Abdullah	757578	222	148751	83272	232023	NA-263	38097	Sallah Uddin	MMA	2018
Balochistan	Gujranwala	Panjgur/Washuk/Awaran	614602	251	132004	99581	231585	NA-270	18728	Ehsan Ullah Riki	BAP	2018
Balochistan	Gujranwala	Killa Saifullah/Zhob/Sherani	806474	324	153977	114667	268644	NA-257	44505	Moulana Abdul Wasay	MMA	2018
Balochistan	Gujranwala	Loralai/musakhail/Ziarat/Dukki/Harnai	821856	393	313727	133900	447627	NA-258	43164	Sardar Muhammad Israr Tareen	BAP	2018
Balochistan	Gujranwala	Dera Bugti/Kohlu/Sibi/Lehri	950056	366	214625	142119	356744	NA-259	22787	Nawabzada Shahzain Bugti	JWP	2018

For Sindh in 2013:

Election Results												
Province	District	Constituency	Population	Polling Stations	Male	Female	Total Voters	NA Name	Votes	Candidate	Party	Year
Sindh	Tando Muhammad Khan	Tando Muhammad Khan-Hyderabad-Badin (Old Hyderabad-V)	636958.53	242	141775	118285	260060	NA-222	100095	Syed Naveed Qamar Shah	PPP	2013
Sindh	Hyderabad	Hyderabad-I (Old Hyderabad-II)	552179.16	262	168501	133710	302211	NA-219	141035	Khalid Maqbool Siddiqui	MQM	2013
Sindh	Karachi	Karachi-XVIII	614110.77	227	238142	221043	459185	NA-256	151788	Iqbal Muhammad Ali Khan	MQM	2013
Sindh	Kashmore	Kashmore (Old Jacobabad-III)	565917.3	190	141523	110472	251995	NA-210	55808	Ihsan ur Rahman Mazari	PPP	2013
Sindh	Karachi	Karachi-XX	581257.17	287	232513	161280	393793	NA-258	52751	Abdul Hakeem Baloch	PMLN	2013
Sindh	Umerkot	Umerkot (Old Mirpurkhas-III)	608784.93	286	155631	139434	295065	NA-228	99700	Nawab Muhammad Yousif Talpur	PPP	2013
Sindh	Shikarpur	Shikarpur (Old Shikarpur-I)	543083.58	216	137933	122422	260355	NA-202	54633	Muhammad Ibrahim Jatoli	NPP	2013
Sindh	Karachi	Karachi-XIV	539036.55	175	172608	148583	321191	NA-252	91339	Adbul Rashid Godil	MQM	2013