India Election

ELECTION DATA O ANALYSIS

Insights from Constituency, Party, and State-Level Results

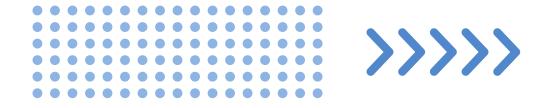




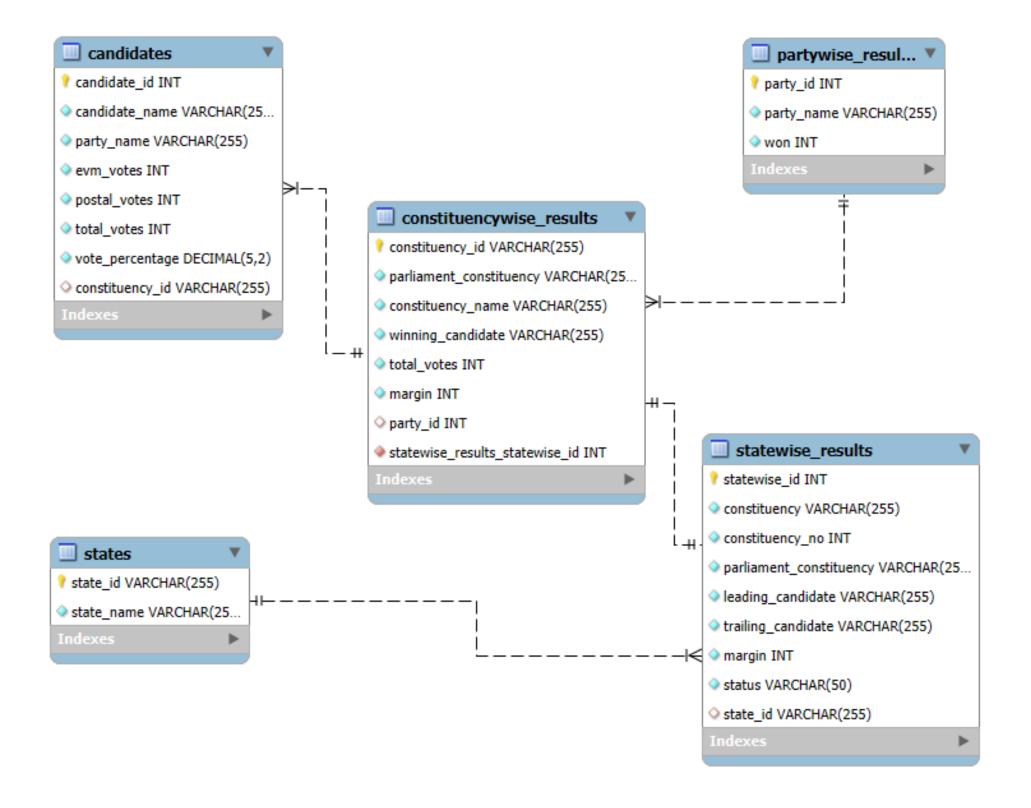


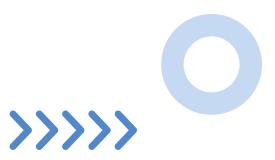
Introduction

This project focuses on analyzing Indian parliamentary election data to uncover insights related to party performance, voter behavior, and constituency-level trends. By using structured SQL queries on a relational database, we explore key aspects such as winning margins, voter turnout, party-wise results, and candidate statistics. The goal is to support data-driven decision-making for political strategy, public awareness, and election transparency.



ER DIAGRAM



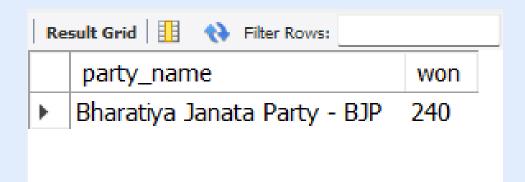




1.Find the party with the highest number of seats won.

```
select p.party_name, p.won
from election.partywise_results p
order by won desc
limit 1;
```





2. Identify the candidate with the highest and lowest winning margin.

```
select c1.winning_candidate, c1.margin, c1.constituency_name
 from election.constituencywise_results c1
 order by c1.margin desc
  limit 1
select c1.winning_candidate, c1.margin, c1.constituency_name
 from election.constituencywise results c1
 where c1.margin >0
 order by c1.margin asc
  limit 1
  select 'highest margin' as margin_type, winning_candidate, margin, constituency_name from highest_margin
  union all
  select 'lowest margin' as margin_type, winning_candidate, margin, constituency_name from lowest_margin;
```

Result Grid Filter Rows: Export: Wrap Cell Content: 🖽					
	margin_type	winning_candidate	margin	constituency_name	
١	highest margin	SHANKAR LALWANI	1175092	INDORE	
	lowest margin	RAVINDRA DATTARAM WAIKAR	48	MUMBAINORTHWEST	

3. Calculate the total votes received by each party across all constituencies.

```
select p1.party_id, p1.party_name,
sum(c1.total_votes) as total_votes
from election.constituencywise_results c1
inner join election.partywise_results p1
on p1.party_id = c1.party_id
group by p1.party_id, p1.party_name
order by total_votes desc;
```

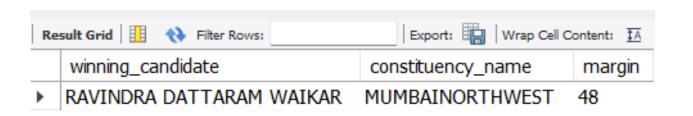


Re	sult Grid	Filter Rows: Export:	Wrap Cell Cont
	party_id	party_name	total_votes
•	369	Bharatiya Janata Party - BJP	157039540
	742	Indian National Congress - INC	54233901
	140	All India Trinamool Congress - AITC	20185370
	1680	Samajwadi Party - SP	18826855
	1745	Telugu Desam - TDP	12232822
	582	Dravida Munnetra Kazhagam - DMK	11754710
	805	Janata Dal (United) - JD(U)	6335123
	3620	Nationalist Congress Party Sharadc	4971873
	3369	Shiv Sena (Uddhav Balasaheb Tha	4772796
	3529	Shiv Sena - SHS	3815530
	3165	Lok Janshakti Party(Ram Vilas) - L	2810250
	743	Independent - IND	2421977
	1888	Yuvajana Sramika Rythu Congress	2359220
	547	Communist Party of India (Marxis	2163219
	1420	Rashtriya Janata Dal - RJD	1960230
	772	Indian Union Muslim League - IUML	1716186
	852	Jharkhand Mukti Morcha - JMM	1680905
	804	Janata Dal (Secular) - JD(S)	1543362
	860	Janasena Party - JnP	1454138
	1847	Viduthalai Chiruthaigal Katchi - VCK	982117
	1	Aam Aadmi Party - AAAP	981161
	544	Communist Party of India - CPI	937783
	545	Communist Party of India (Marxis	909963
	1458	Rashtriya Lok Dal - RLD	893460
	834	Jammu & Kashmir National Confer	878702
	83	Asom Gana Parishad - AGP	860113
	1		



4. Find the constituency with the smallest winning margin.

```
select c1.winning_candidate, c1.constituency_name, c1.margin
from election.constituencywise_results c1
where c1.total_votes > 0
and margin > 0
order by c1.margin asc
limit 1;
```





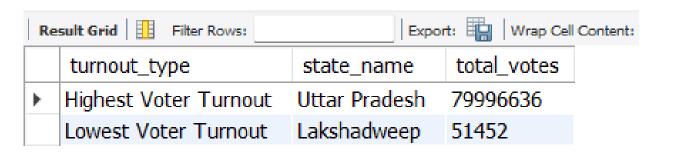




5. Determine the state with the highest and lowest voter turnout.

```
with total_vote as (
  select sr1.state id, s1.state name, sum(cr1.total votes) as total votes
  from election.states s1
  inner join election.statewise results sr1
  on sr1.state_id = s1.state_id
  inner join election.constituencywise results cr1
  on sr1.constituency = cr1.constituency name
  group by sr1.state_id, s1.state_name

    ¬ rank_state as (
  select *,
  rank() over(order by total_votes desc) as rank_desc,
  rank() over(order by total votes asc) as rank asc
  from total vote
  select 'Highest Voter Turnout' as turnout_type, state_name, total_votes
  from rank_state
  where rank_desc = 1
  union all
  select 'Lowest Voter Turnout' as turnout_type, state_name, total_votes
  from rank_state
  where rank_asc = 1;
```





6. Calculate the percentage of votes secured by the winning candidate in each constituency.

```
with total votes per constituency as (
  select constituency id, SUM(total votes) AS total votes in constituency
  from election.Candidates
                                                                                                                                               Export: Wrap Cell Content: $\frac{1}{4}
                                                                                                                  Result Grid | Filter Rows:
                                                                                                                                 winning_candidate
                                                                                                                                                               votes_secured total_votes_in_constituency
                                                                                                                    constituency_id
                                                                                                                                                                                                  winning_percentage
  group by constituency id
                                                                                                                   S0119
                                                                                                                                 AMBICA G LAKSHMINARAYANA V...
                                                                                                                                                              768245
                                                                                                                                                                           1440428
                                                                                                                                                                                                  53.33
                                                                                                                    S047
                                                                                                                                 RAMPRIT MANDAL
                                                                                                                                                              533032
                                                                                                                                                                           1093741
                                                                                                                                                                                                  48.73

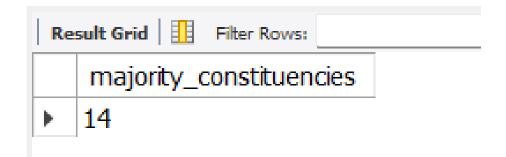
⊖ winning candidates as (
                                                                                                                    S1024
                                                                                                                                                              986049
                                                                                                                                                                           1752504
                                                                                                                                                                                                  56.27
                                                                                                                                 SHOBHA KARANDLAJE
                                                                                                                   S1224
                                                                                                                                                              795863
                                                                                                                                                                           1532643
                                                                                                                                                                                                  51.93
                                                                                                                                 ANITA NAGARSINGH CHOUHAN
  select
                                                                                                                   S1324
                                                                                                                                 DR SHRIKANT EKNATH SHINDE
                                                                                                                                                              589636
                                                                                                                                                                           1045736
                                                                                                                                                                                                  56.38
       c.constituency id,
                                                                                                                   S1325
                                                                                                                                 NARESH GANPAT MHASKE
                                                                                                                                                              734231
                                                                                                                                                                           1309068
                                                                                                                                                                                                  56.09
       c.candidate name,
                                                                                                                    S1347
                                                                                                                                 CHHATRAPATI SHAHU SHAHAJI
                                                                                                                                                              754522
                                                                                                                                                                           1393326
                                                                                                                                                                                                  54.15
                                                                                                                   S152
                                                                                                                                                              383919
                                                                                                                                                                           674056
                                                                                                                                                                                                  56.96
                                                                                                                                 SALENG A SANGMA
       c.total votes as votes secured
                                                                                                                   S1815
                                                                                                                                 BAIJAYANT PANDA
                                                                                                                                                              615705
                                                                                                                                                                           1277108
                                                                                                                                                                                                  48.21
       from election.Candidates c
                                                                                                                    S2010
                                                                                                                                                              530011
                                                                                                                                                                           961077
                                                                                                                                                                                                  55.15
                                                                                                                                 BHAJAN LAL JATAV
                                                                                                                    S2212
                                                                                                                                 THARANIVENTHAN M S
                                                                                                                                                              500099
                                                                                                                                                                           1140261
       inner join election.constituencywise results cr
                                                                                                                                                                                                  43.86
                                                                                                                    S2222
                                                                                                                                 SACHITHANANTHAM R
                                                                                                                                                              670149
                                                                                                                                                                           1149621
                                                                                                                                                                                                  58.29
       on c.constituency id = cr.constituency id
                                                                                                                    S2422
                                                                                                                                 DEVESH SHAKYA
                                                                                                                                                              475808
                                                                                                                                                                           1010381
                                                                                                                                                                                                  47.09
       where c.candidate name = cr.winning candidate
                                                                                                                   S249
                                                                                                                                                                           1110690
                                                                                                                                                                                                  42.90
                                                                                                                                 KANWAR SINGH TANWAR
                                                                                                                                                              476506
                                                                                                                    S251
                                                                                                                                                              788375
                                                                                                                                                                           1623048
                                                                                                                                                                                                  48.57
                                                                                                                                 JAGADISH CHANDRA BARMA BAS...
                                                                                                                    S2513
                                                                                                                                 JAGANNATH SARKAR
                                                                                                                                                              5861
                                                                                                                                                                           1540632
                                                                                                                                                                                                  0.38
                                                                                                                    S2513
                                                                                                                                                                           1540632
                                                                                                                                                                                                  50.78
                                                                                                                                 JAGANNATH SARKAR
                                                                                                                                                              782396
                                                                                                                   S2526
                                                                                                                                                                           1390794
                                                                                                                                                                                                  52.10
  select
                                                                                                                                 SAJDA AHMED
                                                                                                                                                              724622
                                                                                                                    S259
                                                                                                                                                              544427
                                                                                                                                                                           1369633
                                                                                                                                                                                                  39.75
                                                                                                                                 KHALILUR RAHAMAN
       wc.constituency id,
                                                                                                                   S262
                                                                                                                                                                           1452965
                                                                                                                                 RADHESHYAM RATHIYA
                                                                                                                                                              808275
                                                                                                                                                                                                  55.63
       wc.candidate name as winning candidate,
                                                                                                                    S274
                                                                                                                                 KALI CHARAN SINGH
                                                                                                                                                              574556
                                                                                                                                                                           1086374
                                                                                                                                                                                                  52.89
                                                                                                                    S278
                                                                                                                                 SANJAY SETH
                                                                                                                                                              664732
                                                                                                                                                                           1447781
                                                                                                                                                                                                  45.91
       wc.votes secured,
                                                                                                                                                              465072
                                                                                                                                                                           1219223
                                                                                                                    S2912
                                                                                                                                 DR.MALLU RAVI
                                                                                                                                                                                                  38.14
       tv.total votes in constituency,
                                                                                                                    S2914
                                                                                                                                 CHAMALA KIRAN KUMAR REDDY
                                                                                                                                                              629143
                                                                                                                                                                           1401396
                                                                                                                                                                                                  44.89
       round(wc.votes_secured * 100.0 / tv.total_votes_in_constituency, 2) as winning_percentage
                                                                                                                   S2915
                                                                                                                                                              581294
                                                                                                                                                                           1267946
                                                                                                                                                                                                  45.85
                                                                                                                                 KADIYAM KAVYA
                                                                                                                   S298
                                                                                                                                 G. KISHAN REDDY
                                                                                                                                                              473012
                                                                                                                                                                           1047659
                                                                                                                                                                                                  45.15
  from winning candidates wc
  join total_votes_per_constituency tv
```

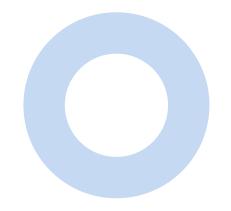
on wc.constituency id = tv.constituency id;



7. Find the number of constituencies where the winning candidate received more than 50% of total votes.

```
with total votes per constituency as (
  select constituency id, SUM(total votes) AS total votes in constituency
 from election.Candidates
  group by constituency id
winning_candidates as (
  select
      c.constituency id,
      c.candidate name,
     c.total votes as votes secured
      from election.Candidates c
     inner join election.constituencywise_results cr
      on c.constituency id = cr.constituency id
     where c.candidate name = cr.winning candidate
  select count(*) as majority constituencies
  from winning candidates wc
  join total_votes_per_constituency tv
  on wc.constituency_id = tv.constituency_id
 where wc.votes_secured > 0.5 * tv.total_votes_in_constituency;
```

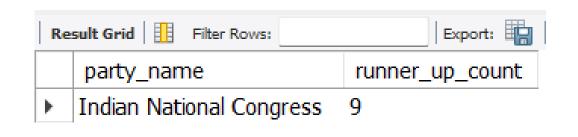






8. Identify the party that secured the most runner-up positions.

```
with rank_position as (
    select candidate_name, party_name, total_votes, constituency_id,
    rank () over (partition by constituency_id order by total_votes desc) as position_rank
    from election.candidates
)
select party_name, count(*) as runner_up_count
from rank_position
where position_rank = 2
group by party_name
order by runner_up_count desc
limit 1;
```





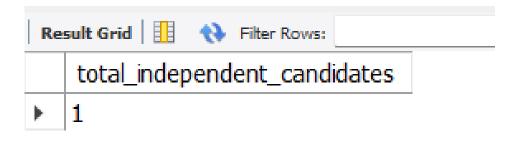
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9. Find the number of independent candidates who won and their constituencies.

```
select count(*) as total_independent_candidates
from election.candidates c
inner join election.constituencywise_results cr
on cr.constituency_id = c.constituency_id
where c.party_name = 'Independent'
and c.candidate_name = cr.winning_candidate;
```







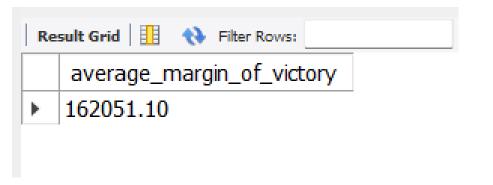


10. Calculate the average margin of victory across all constituencies

select

```
round(avg(cr.margin), 2) as average_margin_of_victory
from election.constituencywise_results cr;
```











THANK YOU!

>>>>>



INDIAN ELECTION