**INDIA GENERAL ELECTIONS RESULT ANALYSIS 2024**

**--- PROBLEM STATEMENT :- 01 Total Seats**

**SELECT**

**DISTINCT COUNT(Parliament\_Constituency)**

**FROM constituencywise\_results;**



**--- PROBLEM STATEMENT :- 02 What is the total number of seats available for elections in each state.**

**SELECT states.State AS StateName, COUNT(Constituency\_ID) AS TotalSeatsAvailable**

**FROM states**

**JOIN**

**statewise\_results**

**ON states.State\_ID = statewise\_results.State\_ID**

**JOIN**

**constituencywise\_results**

**ON constituencywise\_results.Parliament\_Constituency = statewise\_results.Parliament\_Constituency**

**GROUP BY**

**states.State**

**ORDER BY**

**states.State;**

** **

**--- PROBLEM STATEMENT :- 03 Total Seats Won by NDA Alliance**

**SELECT**

**SUM(CASE**

**WHEN Party IN (**

**'Apna Dal (Soneylal) - ADAL',**

**'Asom Gana Parishad - AGP',**

**'Bharatiya Janata Party - BJP',**

**'Hindustani Awam Morcha (Secular) - HAMS',**

**'Janasena Party - JnP',**

**'Janata Dal (Secular) - JD(S)',**

**'Janata Dal (United) - JD(U)',**

**'Lok Janshakti Party(Ram Vilas) - LJPRV',**

**'Nationalist Congress Party - NCP',**

**'Rashtriya Janata Dal - RJD',**

**'Rashtriya Lok Dal - RLD',**

**'Shiv Sena - SHS',**

**'Sikkim Krantikari Morcha - SKM',**

**'Telugu Desam - TDP'**

**) THEN [won]**

**ELSE 0**

**END) AS NDA\_Total\_Seats\_Won**

**FROM partywise\_results**



**--- PROBLEM STATEMENT :- 04 Seats Won by NDA Alliance Party**

**SELECT**

**party AS PartyName,**

**won AS SeatsWon**

**FROM**

**partywise\_results**

**WHERE**

**party IN (**

**'Apna Dal (Soneylal) - ADAL',**

**'Asom Gana Parishad - AGP',**

**'Bharatiya Janata Party - BJP',**

**'Hindustani Awam Morcha (Secular) - HAMS',**

**'Janasena Party - JnP',**

**'Janata Dal (Secular) - JD(S)',**

**'Janata Dal (United) - JD(U)',**

**'Lok Janshakti Party(Ram Vilas) - LJPRV',**

**'Nationalist Congress Party - NCP',**

**'Rashtriya Janata Dal - RJD',**

**'Rashtriya Lok Dal - RLD',**

**'Shiv Sena - SHS',**

**'Sikkim Krantikari Morcha - SKM',**

**'Telugu Desam - TDP'**

**)**

**ORDER BY SeatsWon DESC;**



**--- PROBLEM STATEMENT :- 05 Total Seats Won by I.N.D.I.A Alliance Parties**

**SELECT**

**SUM(CASE**

**WHEN Party IN (**

**'Aam Aadmi Party - AAAP',**

**'All India Trinamool Congress - AITC',**

**'Bharat Adivasi Party - BHRTADVSIP',**

**'Communist Party of India (Marxist) - CPI(M)',**

**'Communist Party of India (Marxist-Leninist) (Liberation) - CPI(ML)(L)',**

**'Communist Party of India - CPI',**

**'Dravida Munnetra Kazhagam - DMK',**

**'Indian National Congress - INC',**

**'Indian Union Muslim League - IUML',**

**'Jammu & Kashmir National Conference - JKN',**

**'Jharkhand Mukti Morcha - JMM',**

**'Kerala Congress - KEC',**

**'Marumalarchi Dravida Munnetra Kazhagam - MDMK',**

**'Nationalist Congress Party Sharadchandra Pawar - NCPSP',**

**'Rashtriya Loktantrik Party - RLTP',**

**'Revolutionary Socialist Party - RSP',**

**'Samajwadi Party - SP',**

**'Shiromani Akali Dal - SAD',**

**'Shiv Sena (Uddhav Balasaheb Thackrey) - SHSUBT',**

**'Viduthalai Chiruthaigal Katchi - VCK'**

**)THEN [won]**

**ELSE 0**

**END) AS NDA\_Total\_Seats\_Won**

**FROM partywise\_results;**



**--- PROBLEM STATEMENT :- 06 Seats Won by I.N.D.I.A Alliance Parties**

**SELECT**

**party AS PartyName,**

**won AS SeatsWon**

**FROM**

**partywise\_results**

**WHERE**

**party IN (**

**'Aam Aadmi Party - AAAP',**

**'All India Trinamool Congress - AITC',**

**'Bharat Adivasi Party - BHRTADVSIP',**

**'Communist Party of India (Marxist) - CPI(M)',**

**'Communist Party of India (Marxist-Leninist) (Liberation) - CPI(ML)(L)',**

**'Communist Party of India - CPI',**

**'Dravida Munnetra Kazhagam - DMK',**

**'Indian National Congress - INC',**

**'Indian Union Muslim League - IUML',**

**'Jammu & Kashmir National Conference - JKN',**

**'Jharkhand Mukti Morcha - JMM',**

**'Kerala Congress - KEC',**

**'Marumalarchi Dravida Munnetra Kazhagam - MDMK',**

**'Nationalist Congress Party Sharadchandra Pawar - NCPSP',**

**'Rashtriya Loktantrik Party - RLTP',**

**'Revolutionary Socialist Party - RSP',**

**'Samajwadi Party - SP',**

**'Shiromani Akali Dal - SAD',**

**'Shiv Sena (Uddhav Balasaheb Thackrey) - SHSUBT',**

**'Viduthalai Chiruthaigal Katchi - VCK'**

**)**

**ORDER BY SeatsWon DESC;**



**--- PROBLEM STATEMENT :- 07 Add new column field in table partywise\_results to get the Party Alliance as NDA, I.N.D.I.A and OTHER**

**ALTER TABLE partywise\_results**

**ADD party\_alliance VARCHAR(50)**

**UPDATE partywise\_results**

**SET party\_alliance = 'I.N.D.I.A'**

**WHERE party IN (**

**'Aam Aadmi Party - AAAP',**

**'All India Trinamool Congress - AITC',**

**'Bharat Adivasi Party - BHRTADVSIP',**

**'Communist Party of India (Marxist) - CPI(M)',**

**'Communist Party of India (Marxist-Leninist) (Liberation) - CPI(ML)(L)',**

**'Communist Party of India - CPI',**

**'Dravida Munnetra Kazhagam - DMK',**

**'Indian National Congress - INC',**

**'Indian Union Muslim League - IUML',**

**'Jammu & Kashmir National Conference - JKN',**

**'Jharkhand Mukti Morcha - JMM',**

**'Kerala Congress - KEC',**

**'Marumalarchi Dravida Munnetra Kazhagam - MDMK',**

**'Nationalist Congress Party Sharadchandra Pawar - NCPSP',**

**'Rashtriya Loktantrik Party - RLTP',**

**'Revolutionary Socialist Party - RSP',**

**'Samajwadi Party - SP',**

**'Shiromani Akali Dal - SAD',**

**'Shiv Sena (Uddhav Balasaheb Thackrey) - SHSUBT',**

**'Viduthalai Chiruthaigal Katchi - VCK'**

**);**

**UPDATE partywise\_results**

**SET party\_alliance = 'NDA'**

**WHERE party IN (**

**'Apna Dal (Soneylal) - ADAL',**

**'Asom Gana Parishad - AGP',**

**'Bharatiya Janata Party - BJP',**

**'Hindustani Awam Morcha (Secular) - HAMS',**

**'Janasena Party - JnP',**

**'Janata Dal (Secular) - JD(S)',**

**'Janata Dal (United) - JD(U)',**

**'Lok Janshakti Party(Ram Vilas) - LJPRV',**

**'Nationalist Congress Party - NCP',**

**'Rashtriya Janata Dal - RJD',**

**'Rashtriya Lok Dal - RLD',**

**'Shiv Sena - SHS',**

**'Sikkim Krantikari Morcha - SKM',**

**'Telugu Desam - TDP'**

**);**

**UPDATE partywise\_results**

**SET party\_alliance = 'OTHER'**

**WHERE party\_alliance IS NULL;**

**---PROBLEM STATEMENT :- 08 Which party alliance (NDA, I.N.D.I.A, or OTHER) won the most seats across all states?**

**SELECT**

**party\_alliance,**

**SUM(won) AS Total**

**FROM partywise\_results**

**GROUP BY party\_alliance;**



**---PROBLEM STATEMENT :- 09 Winning candidate's name, their party name, total votes, and the margin of victory for a specific state and constituency?**

**SELECT constituencywise\_results.Winning\_Candidate,**

**partywise\_results.Party,**

**constituencywise\_results.Total\_Votes,**

**constituencywise\_results.Margin,**

**constituencywise\_results.Constituency\_Name,**

**partywise\_results.party\_alliance,**

**States.State**

**FROM constituencywise\_results**

**JOIN partywise\_results**

**ON constituencywise\_results.Party\_ID = partywise\_results.Party\_ID**

**JOIN statewise\_results**

**ON constituencywise\_results.Parliament\_Constituency = statewise\_results.Parliament\_Constituency**

**JOIN States**

**ON statewise\_results.State\_ID = States.State\_ID**

****

**---PROBLEM STATEMENT :- 10 What is the distribution of EVM votes for candidates in a specific constituency ?**

**SELECT constituencywise\_details.Candidate,**

**constituencywise\_details.Party,**

**constituencywise\_details.EVM\_Votes,**

**constituencywise\_details.Postal\_Votes,**

**constituencywise\_details.Total\_Votes,**

**constituencywise\_results.Constituency\_Name**

**FROM constituencywise\_details**

**JOIN constituencywise\_results**

**ON constituencywise\_details.Constituency\_ID = constituencywise\_results.Constituency\_ID**

**ORDER BY constituencywise\_details.Total\_Votes DESC;**

****

**---PROBLEM STATEMENT :- 11 Which parties won the most seats in states.State, and how many seats did each party win?**

**SELECT partywise\_results.Party,**

**COUNT(Constituency\_ID) AS Seats\_won**

**FROM partywise\_results**

**JOIN constituencywise\_results**

**ON constituencywise\_results.Party\_ID = partywise\_results.Party\_ID**

**JOIN statewise\_results**

**ON statewise\_results.Parliament\_Constituency = constituencywise\_results.Parliament\_Constituency**

**JOIN states**

**ON states.State\_ID = statewise\_results.State\_ID**

**WHERE states.State = 'Andhra Pradesh'**

**GROUP BY partywise\_results.Party**

**ORDER BY Seats\_Won DESC;**

****

**---PROBLEM STATEMENT :- 12 What is the total number of seats won by each party alliance (NDA, I.N.D.I.A, and OTHER) in each state for the India Elections 2024**

**SELECT**

**states.State AS State\_Name,**

**SUM(CASE WHEN partywise\_results.party\_alliance = 'NDA' THEN 1 ELSE 0 END) AS NDA\_Seats\_Won,**

**SUM(CASE WHEN partywise\_results.party\_alliance = 'I.N.D.I.A' THEN 1 ELSE 0 END) AS INDIA\_Seats\_Won,**

**SUM(CASE WHEN partywise\_results.party\_alliance = 'OTHER' THEN 1 ELSE 0 END) AS OTHER\_Seats\_Won**

**FROM constituencywise\_results**

**JOIN partywise\_results**

**ON constituencywise\_results.Party\_ID = partywise\_results.Party\_ID**

**JOIN statewise\_results**

**ON constituencywise\_results.Parliament\_Constituency = statewise\_results.Parliament\_Constituency**

**JOIN states**

**ON statewise\_results.State\_ID = states.State\_ID**

**WHERE partywise\_results.party\_alliance IN ('NDA', 'I.N.D.I.A', 'OTHER') -- Filter for NDA and INDIA alliances**

**GROUP BY states.State**

**ORDER BY states.State;**

****

**---PROBLEM STATEMENT :- 13 Which candidate received the highest number of EVM votes in each constituency (Top 10)?**

**SELECT TOP 10**

**constituencywise\_results.Constituency\_ID,**

**constituencywise\_results.Constituency\_Name,**

**constituencywise\_details.Candidate,**

**constituencywise\_details.EVM\_Votes**

**FROM constituencywise\_details**

**JOIN constituencywise\_results**

**ON constituencywise\_details.Constituency\_ID = constituencywise\_results.Constituency\_ID**

**ORDER BY constituencywise\_details.EVM\_Votes DESC;**

****

**---PROBLEM STATEMENT :- 14 Which candidate won and which candidate was the runner-up in each constituency of State for the 2024 elections?**

**WITH RankedCandidates AS (**

**SELECT**

**constituencywise\_details.Constituency\_ID,**

**constituencywise\_details.Candidate,**

**constituencywise\_details.Party,**

**constituencywise\_details.EVM\_Votes,**

**constituencywise\_details.Postal\_Votes,**

**constituencywise\_details.EVM\_Votes + constituencywise\_details.Postal\_Votes AS Total\_Votes,**

**ROW\_NUMBER() OVER (PARTITION BY constituencywise\_details.Constituency\_ID ORDER BY constituencywise\_details.EVM\_Votes + constituencywise\_details.Postal\_Votes DESC) AS VoteRank**

**FROM constituencywise\_details**

**JOIN constituencywise\_results**

**ON constituencywise\_details.Constituency\_ID = constituencywise\_results.Constituency\_ID**

**JOIN statewise\_results**

**ON constituencywise\_results.Parliament\_Constituency = statewise\_results.Parliament\_Constituency**

**JOIN states**

**ON statewise\_results.State\_ID = states.State\_ID**

**WHERE states.State = 'Maharashtra'**

**)**

**SELECT**

**constituencywise\_results.Constituency\_Name,**

**MAX(CASE WHEN RankedCandidates.VoteRank = 1 THEN RankedCandidates.Candidate END) AS Winning\_Candidate,**

**MAX(CASE WHEN RankedCandidates.VoteRank = 2 THEN RankedCandidates.Candidate END) AS Runnerup\_Candidate**

**FROM RankedCandidates**

**JOIN constituencywise\_results**

**ON RankedCandidates.Constituency\_ID = constituencywise\_results.Constituency\_ID**

**GROUP BY constituencywise\_results.Constituency\_Name**

**ORDER BY constituencywise\_results.Constituency\_Name;**

***Query Explaination:***

**1. Common Table Expression (CTE) RankedCandidates**

* **WITH RankedCandidates AS**: This section creates a Common Table Expression (CTE) named RankedCandidates, which is used to rank candidates based on their total votes within each constituency.
* **SELECT ... FROM constituencywise\_details cd**: This part of the CTE retrieves data from the constituencywise\_details table, including:
  + cd.Constituency\_ID: The ID of the constituency.
  + cd.Candidate: The name of the candidate.
  + cd.Party: The party of the candidate.
  + cd.EVM\_Votes: The number of EVM votes received by the candidate.
  + cd.Postal\_Votes: The number of postal votes received by the candidate.
  + cd.EVM\_Votes + cd.Postal\_Votes AS Total\_Votes: The total votes received by the candidate (sum of EVM and postal votes).
* **ROW\_NUMBER() OVER (PARTITION BY cd.Constituency\_ID ORDER BY cd.EVM\_Votes + cd.Postal\_Votes DESC) AS VoteRank**:
  + ROW\_NUMBER() is a window function that assigns a unique rank to each candidate within their respective constituency.
  + PARTITION BY cd.Constituency\_ID ensures that the ranking is done separately for each constituency.
  + ORDER BY cd.EVM\_Votes + cd.Postal\_Votes DESC orders candidates by their total votes in descending order, so the candidate with the most votes gets rank 1.
* **JOIN ... ON ...**: Joins are performed to combine information from related tables:
  + constituencywise\_results cr ON cd.Constituency\_ID = cr.Constituency\_ID
  + statewise\_results sr ON cr.Parliament\_Constituency = sr.Parliament\_Constituency
  + states s ON sr.State\_ID = s.State\_ID
* **WHERE s.State = 'Maharashtra'**: Filters the results to include only data related to the state of Maharashtra.

**2. Main Query**

* **SELECT ... FROM RankedCandidates rc**: The main query retrieves data from the RankedCandidates CTE to find the winning and runner-up candidates for each constituency.
* **MAX(CASE WHEN rc.VoteRank = 1 THEN rc.Candidate END) AS Winning\_Candidate**:
  + CASE WHEN rc.VoteRank = 1 THEN rc.Candidate END selects the candidate with the highest vote rank (rank 1) for each constituency.
  + MAX(...) ensures that only one candidate is selected for each constituency.
* **MAX(CASE WHEN rc.VoteRank = 2 THEN rc.Candidate END) AS Runnerup\_Candidate**:
  + CASE WHEN rc.VoteRank = 2 THEN rc.Candidate END selects the candidate with the second highest vote rank (rank 2) for each constituency.
  + MAX(...) ensures that only one candidate is selected for each constituency.
* **JOIN ... ON ...**: Joins the RankedCandidates CTE with the constituencywise\_results table to get the constituency names.
* **GROUP BY cr.Constituency\_Name**: Groups the results by constituency name to ensure that the winning and runner-up candidates are determined for each constituency.
* **ORDER BY cr.Constituency\_Name**: Orders the results alphabetically by constituency name for easier readability.

****

**---PROBLEM STATEMENT :- 15 For the state of Maharashtra, what are the total number of seats, total number of candidates, total number of parties, total votes (including EVM and postal), and the breakdown of EVM and postal votes?**

**SELECT**

**COUNT(DISTINCT constituencywise\_results.Constituency\_ID) AS Total\_Seats,**

**COUNT(DISTINCT constituencywise\_details.Candidate) AS Total\_Candidates,**

**COUNT(DISTINCT partywise\_results.Party) AS Total\_Parties,**

**SUM(constituencywise\_details.EVM\_Votes + constituencywise\_details.Postal\_Votes) AS Total\_Votes,**

**SUM(constituencywise\_details.EVM\_Votes) AS Total\_EVM\_Votes,**

**SUM(constituencywise\_details.Postal\_Votes) AS Total\_Postal\_Votes**

**FROM constituencywise\_results**

**JOIN constituencywise\_details**

**ON constituencywise\_results.Constituency\_ID = constituencywise\_details.Constituency\_ID**

**JOIN statewise\_results**

**ON constituencywise\_results.Parliament\_Constituency = statewise\_results.Parliament\_Constituency**

**JOIN states**

**ON statewise\_results.State\_ID = states.State\_ID**

**JOIN partywise\_results**

**ON constituencywise\_results.Party\_ID = partywise\_results.Party\_ID**

**WHERE states.State = 'Maharashtra';**

****