

General Election of India 2024

SQL Data Analysis

```
-- 1. Total Seats
select distinct
count(Parliament_Constituency) as [Total Seats]
from constituencywise_results;

-- 2. Total Votes
select
sum(EVM_Votes) as [Total EVM Votes],
sum(Postal_Votes) as [Total Postal Votes],
sum(Total_Votes) as [Total Votes]
from constituencywise_details

-- 3. Total number of candidates
select
count(*) as [Total Candidates]
from constituencywise_details
where
UPPER(Candidate) <> 'NOTA' --Excluding NOTA

--4. Total number of parties
select
count(distinct party) as [Total Number of Parties]
from constituencywise_details
where
upper(Candidate) <> 'None of the Above' --Excluding 'None of the Above'

-- 6. Total Votes Received by top 10 Parties.
select top 10
Party,
sum(Total_Votes) as [Total votes]
from constituencywise_details
group by Party
order by [Total votes] desc

-- 7. Total percentage of vote received by top 10 parties
select top 10
Party,
round(sum(cast([Total_Votes] as bigint)) * 100.0 /
(select sum(cast([Total_Votes] as bigint))
from constituencywise_details
), 2) as [Vote Percentag]
from constituencywise_details
group by Party
order by [Vote Percentag] desc;

-- 8. Top 5 winning candidate with highest margin
select top 5
s.State,
cr.constituency_name [Constituency],
cr.winning_candidate [Winnig Candidate],
cr.margin [Vote Margin] ,
pr.party [Party]
from constituencywise_results as cr
join partywise_results as pr
on cr.Party_ID = pr.Party_ID
join statewise_results as sr
on cr.Parliament_Constituency = sr.Parliament_Constituency
join states as s
on sr.State_ID = s.State_ID
order by [Vote Margin] desc;
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-- 9. Total seats won by party alliance (NDA, I.N.D.I.A, or OTHER)
select
pr.party_alliance [Party Alliance],
count(cr.Constituency_ID) as [Seat Won]
from constituencywise_results as cr
join partywise_results as pr
on cr.Party_ID = pr.Party_ID
where pr.party_alliance in('NDA', 'I.N.D.I.A', 'Other')
group by pr.party_alliance
order by [Seat Won] desc

-- 10. Alliance wise candidate number.
select
count(case when Party_Alliance = 'I.N.D.I.A' then 1 end)
as [I.N.D.I.A Alliance candidate],
count(case when Party_Alliance = 'NDA' then 1 end)
as [NDA Alliance candidate],
count(case when Party_Alliance = 'Other' then 1 end)
as [Other Party candidate],
count(case when Party_Alliance = 'Independent' then 1 end)
as [Independent candidate]
from constituencywise_details

-- 11. Seats Won by NDA Alliance Parties.
select
Party as [Party Name],
Won as [Seat Won]
from partywise_results
where party_alliance = 'NDA'
order by [Seat Won] desc

-- 12. Seats Won by I.N.D.I.A Alliance Parties.
select
Party as [Party Name],
Won as [Seat Won]
from partywise_results
where party_alliance = 'I.N.D.I.A'
order by [Seat Won] desc

-- 13. Total number of seats won by each party alliance in each state
select
s.State as [State Name],
sum(case when pr.party_alliance = 'NDA' then 1 else 0 end) as [NDA Seats Won],
sum(case when pr.party_alliance = 'I.N.D.I.A' then 1 else 0 end) as [I.N.D.I.A Seats Won],
sum(case when pr.party_alliance = 'OTHER' then 1 else 0 end) as [OTHER Seats Won]
from constituencywise_results cr
join partywise_results as pr
on cr.Party_ID = pr.Party_ID
join statewise_results as sr
on cr.Parliament_Constituency = sr.Parliament_Constituency
join states as s
ON sr.State_ID = s.State_ID
WHERE pr.party_alliance IN ('NDA', 'I.N.D.I.A', 'OTHER') -- Filter for NDA and INDIA alliances
GROUP BY s.State
ORDER BY s.State;

-- 14. Top 5 constituencies with the tightest race
select top 6
Constituency_Name,
Margin
from constituencywise_results
order by Margin Asc

-- 15. The reason why SURAT had Zero Margin
select
cr.Constituency_Name,
cd.Candidate,
cd.Party
from constituencywise_results as cr

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join statewise_results as sr
    on cr.Parliament_Constituency = sr.Parliament_Constituency
join constituencywise_details as cd
    on cr.Constituency_ID = cd.Constituency_ID
where cr.Constituency_Name = 'SURAT'

```

-- 16. Constituency had the highest competition

```

select top 10
s.state as [State],
cr.Constituency_Name as [Constituency],
count(cd.Candidate) as [Number of candidate]
from constituencywise_details as cd
    join constituencywise_results as cr
        on cd.Constituency_ID = cr.Constituency_ID
    join statewise_results as sr
        on cr.Parliament_Constituency = sr.Parliament_Constituency
    join states as s
        on sr.State_ID = s.State_ID
group by s.State, cr.Constituency_Name
order by [Number of candidate] desc

```

-- 17. Winning and runner up candidates

```

with Ranked_candidates as (
    select
        cd.Constituency_ID,
        s.State [State],
        cr.Constituency_Name [Constituency],
        cd.Candidate [Candidate],
        cd.Party [Party],
        cd.Total_Votes [Total Vote],
        row_number() over (
            partition by cd.Constituency_id
            order by cd.Total_votes desc
        ) as Vote_rank
    from constituencywise_details as cd
        join constituencywise_results as cr
            on cd.Constituency_ID = cr.Constituency_ID
        join statewise_results as sr
            on cr.Parliament_Constituency = sr.Parliament_Constituency
        join states as s
            on sr.State_ID = s.State_ID
)
select
s.state [State],
sr.Constituency [Constituency],
max(case when rc.Vote_rank = 1 then rc.Candidate end) as [Winner candidate],
max(case when rc.Vote_rank = 2 then rc.Candidate end) as [Runnersup candidate]
from Ranked_candidates as rc
    join constituencywise_results as cr
        on rc.Constituency_ID = cr.Constituency_ID
    join statewise_results as sr
        on cr.Parliament_Constituency = sr.Parliament_Constituency
    join states as s
        on sr.State_ID = s.State_ID
group by s.State, sr.Constituency
order by sr.Constituency

```

-- 18. List all candidates from all constituency.

```

select cr.Constituency_Name, cd.Party, cd.Candidate
from constituencywise_details as cd
    join constituencywise_results as cr
        on cd.Constituency_ID = cr.Constituency_ID
group by cr.Constituency_Name, cd.Party, cd.Candidate
order by cr.Constituency_Name, cd.Candidate;

```

-- 19. The total number of votes received by each party in every constituency.

```

select s.state, cd.party, sum(cd.total_votes) as Total_Vote
from constituencywise_details as cd

```

```

join constituencywise_results as cr
    on cd.Constituency_ID = cr.Constituency_ID
join statewide_results as sr
    on cr.Parliament_Constituency = sr.Parliament_Constituency
join states as s
    on sr.State_ID = s.State_ID
group by s.State, cr.Constituency_Name, cd.Party
order by Total_Vote desc;

```

-- 20. Identify the states where a party won.

```

select s.State, sr.Constituency, pr.Party
from partywise_results as pr
join constituencywise_results as cr
    on pr.Party_ID = cr.Party_ID
join statewide_results as sr
    on cr.Parliament_Constituency = sr.Parliament_Constituency
join states as s
    on sr.State_ID = s.State_ID
where cr.Margin > 0
group by s.state, pr.Party, sr.Constituency
order by s.state, pr.Party, sr.Constituency;

```

-- 21. Parties received the total percentage of votes state wise.**

```

select
s.State,
pr.Party,
round(
    sum(cd.Total_Votes) * 100.0 / sum(sum(cd.Total_Votes)
    ) over (partition by s.State), 2) as [Percentage of Votes]
from constituencywise_details as cd
join constituencywise_results as cr
    on cd.Constituency_ID = cr.Constituency_ID
join statewide_results as sr
    on cr.Parliament_Constituency = sr.Parliament_Constituency
join states as s
    on sr.State_ID = s.State_ID
join partywise_results as pr
    on cr.Party_ID = pr.Party_ID
group by s.State, pr.Party
order by s.State, [Percentage of Votes] DESC;

```

-- 22. Compare the EVM votes and postal votes for all candidates in every constituency state wise.

```

select
s.state,
cr.constituency_name,
cd.party,
cd.candidate,
sum(cd.EVM_votes) as [Total EVM Votes],
sum(cd.Postal_Votes) as [Total Postal Votes]
from constituencywise_details as cd
join constituencywise_results as cr
    on cd.Constituency_ID = cr.Constituency_ID
join statewide_results as sr
    on cr.Parliament_Constituency = sr.Parliament_Constituency
join states as s
    on sr.State_ID = s.State_ID
group by s.state, cr.constituency_name, cd.party, cd.candidate
order by [Total EVM Votes] desc;

```

-- 23. Find the top 20 constituencies with the highest voter turnout (total votes).

```

Select top 20
cr.Constituency_name,
s.State,
Sum(cd.Total_votes) as [Highest voter]
from constituencywise_details as cd
join constituencywise_results as cr

```

```

        on cd.Constituency_ID = cr.Constituency_ID
    join statewide_results as sr
        on cr.Parliament_Constituency = sr.Parliament_Constituency
    join states as s
        on sr.State_ID = s.State_ID
group by s.state, cr.Constituency_name
order by [Highest voter] Desc;

```

-- 24. The state with the smallest winning margin across all constituencies.

```

Select top 10 s.state, cr.Constituency_Name, Cr.margin
from constituencywise_results as cr
    join statewide_results as sr
        on cr.Parliament_Constituency = sr.Parliament_Constituency
    join states as s
        on sr.State_ID = s.State_ID
where Cr.Margin > 0
order by Cr.margin ASC;

```

-- 25. Total number of seats won by each party in a given state.

```

Select
s.state as [State],
pr.party as [Party Name],
count(cr.constituency_ID) As [Seat Own]
from constituencywise_results as cr
    join statewide_results as sr
        on cr.Parliament_Constituency = sr.Parliament_Constituency
    join partywise_results as pr
        on cr.Party_ID = pr.Party_ID
    join states as s
        on sr.State_ID = s.State_ID
where cr.Margin > 0
group by s.state, pr.party
order by s.state, [Seat Own] desc;

```