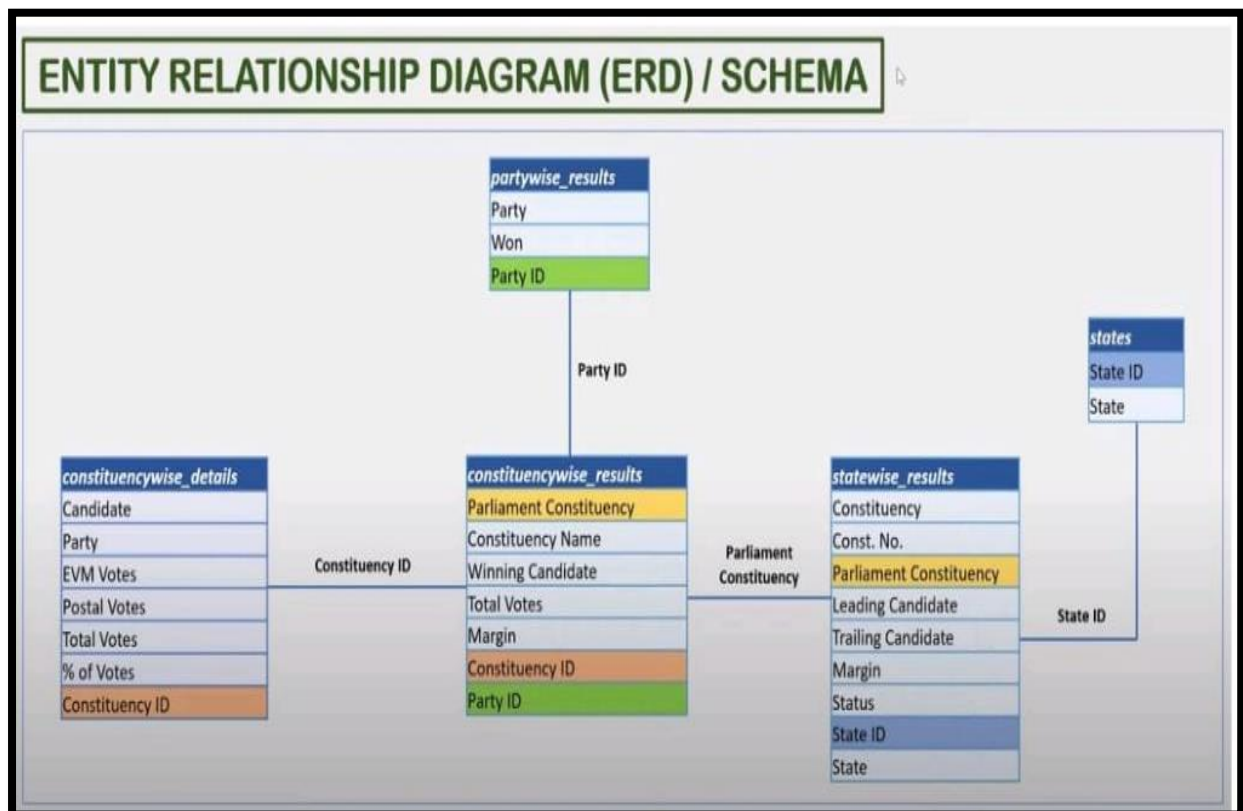# INDIA GENERAL ELECTIONS RESULT ANALYSIS 2024

Project Description:

The India General Elections Result Analysis 2024 project focuses on delivering in-depth insights into the election outcomes using SQL. By examining results at both the state and constituency levels, it provides a comprehensive analysis of seat distribution, voting trends, and party performance.
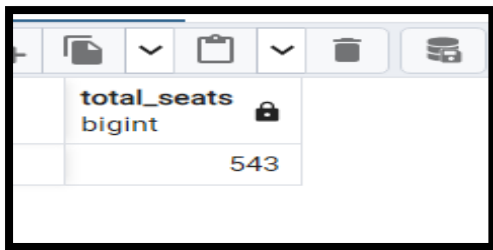
The project involves querying, transforming, and analyzing election data stored in relational databases to address key aspects such as alliances, winning margins, and voting methods.

ERD Diagram:

1.Total Seats

```
SELECT
DISTINCT COUNT(parliament_constituency) as Total_Seats
FROM constituencywise_results;
```

2. What is the Total number of seats available for election to each State?

SELECT s.state_name AS State_Name,
COUNT(DISTINCT cr.parliament_constituency) as Total_Seats
FROM constituencywise_results cr
INNER JOIN statewise_results sr
ON cr.parliament_constituency = sr.parliament_constituency
INNER JOIN states s
ON s.state_id = sr.state_id
GROUP BY s.state_name;

3. Total Seates won by NDA Alliance

WITH WON AS
(SELECT party_name,seats_won FROM parties
WHERE party_name IN(
        'Bharatiya Janata Party - BJP',
        'Telugu Desam - TDP',
        'Janata Dal (United) - JD(U)',
        'Shiv Sena - SHS',
        'AJSU Party - AJSUP',
        'Apna Dal (Soneylal) - ADAL',
        'Asom Gana Parishad - AGP',
        'Hindustani Awam Morcha (Secular) - HAMS',

```sql
            'Janasena Party - JnP',
            'Janata Dal  (Secular) - JD(S)',
            'Lok Janshakti Party(Ram Vilas) - LJPRV',
            'Nationalist Congress Party - NCP',
            'Rashtriya Lok Dal - RLD',
            'Sikkim Krantikari Morcha - SKM'))
SELECT sum(seats_won )
       NDA_Total_Seats_Won
       FROM WON;
```
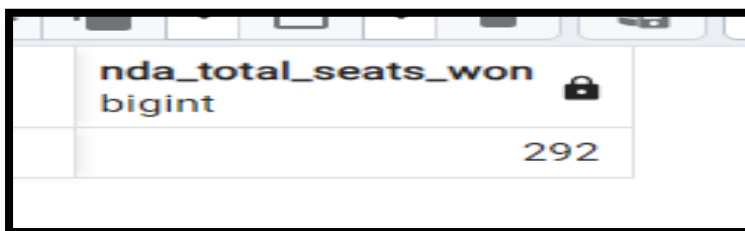
--or

```sql
SELECT
       SUM(CASE
       WHEN party_name IN(
         'Bharatiya Janata Party - BJP',
         'Telugu Desam - TDP',
         'Janata Dal  (United) - JD(U)',
        'Shiv Sena - SHS',
        'AJSU Party - AJSUP',
        'Apna Dal (Soneylal) - ADAL',
        'Asom Gana Parishad - AGP',
        'Hindustani Awam Morcha (Secular) - HAMS',
        'Janasena Party - JnP',
        'Janata Dal  (Secular) - JD(S)',
        'Lok Janshakti Party(Ram Vilas) - LJPRV',
        'Nationalist Congress Party - NCP',
        'Rashtriya Lok Dal - RLD',
        'Sikkim Krantikari Morcha - SKM')
         THEN "seats_won"
          ELSE 0
          END) AS NDA_Total_Seats_Won
FROM parties;
```

nda_total_seats_won 🔒 bigint	
	292

4. **Seats Won by NDA Allianz Parties**

```sql
SELECT party_name,seats_won FROM parties
WHERE party_name IN(
       'Bharatiya Janata Party - BJP',
       'Telugu Desam - TDP',
       'Janata Dal  (United) - JD(U)',
```

```sql
          'Shiv Sena - SHS',
          'AJSU Party - AJSUP',
          'Apna Dal (Soneylal) - ADAL',
          'Asom Gana Parishad - AGP',
          'Hindustani Awam Morcha (Secular) - HAMS',
          'Janasena Party - JnP',
          'Janata Dal  (Secular) - JD(S)',
          'Lok Janshakti Party(Ram Vilas) - LJPRV',
          'Nationalist Congress Party - NCP',
          'Rashtriya Lok Dal - RLD',
          'Sikkim Krantikari Morcha - SKM')
ORDER BY 2 DESC;
```

party_name text	seats_won integer
1	Bharatiya Janata Party - BJP	240
2	Telugu Desam - TDP	16
3	Janata Dal (United) - JD(U)	12
4	Shiv Sena - SHS	7
5	Lok Janshakti Party(Ram Vilas) - LJPRV	5
6	Janata Dal (Secular) - JD(S)	2

Total rows: 14 of 14   Query complete 00:00:00.066

5. Total Seates won by I.N.D.I.A Alliance

```sql
WITH WON AS
(SELECT party_name,seats_won FROM parties
WHERE party_name IN('Indian National Congress - INC',
          '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 Union Muslim League - IUML',
          'Nat`Jammu & Kashmir National Conference - JKN',
          'Jharkhand Mukti Morcha - JMM',
          'Jammu & Kashmir National Conference - JKN',
          'Kerala Congress - KEC',
          'Marumalarchi Dravida Munnetra Kazhagam - MDMK',
          'Nationalist Congress Party Sharadchandra Pawar - NCPSP',
          'Rashtriya Janata Dal - RJD',
          'Rashtriya Loktantrik Party - RLTP',
```
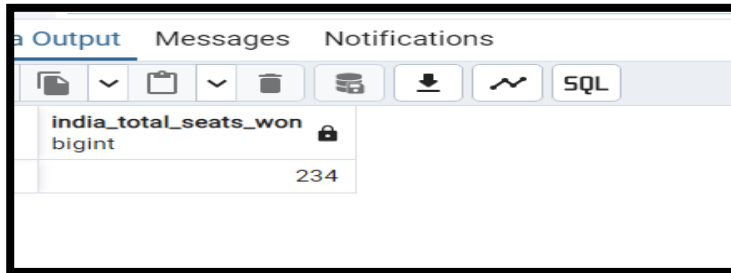
```
                'Revolutionary Socialist Party - RSP',
                'Samajwadi Party - SP',
                'Shiv Sena (Uddhav Balasaheb Thackrey) - SHSUBT',
                'Viduthalai Chiruthaigal Katchi - VCK'))
SELECT sum(seats_won )
        INDIA_Total_Seats_Won
        FROM WON;
```


6.Seates won by INDIA Alliance Parties.

```
SELECT party_name,seats_won FROM parties
WHERE party_name IN(
        'Indian National Congress - INC',
         '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 Union Muslim League - IUML',
         'Nat`Jammu & Kashmir National Conference - JKN',
         'Jharkhand Mukti Morcha - JMM',
         'Jammu & Kashmir National Conference - JKN',
         'Kerala Congress - KEC',
         'Marumalarchi Dravida Munnetra Kazhagam - MDMK',
         'Nationalist Congress Party Sharadchandra Pawar - NCPSP',
         'Rashtriya Janata Dal - RJD',
         'Rashtriya Loktantrik Party - RLTP',
         'Revolutionary Socialist Party - RSP',
         'Samajwadi Party - SP',
         'Shiv Sena (Uddhav Balasaheb Thackrey) - SHSUBT',
         'Viduthalai Chiruthaigal Katchi - VCK')
ORDER BY 2 DESC;
```

	party_name text	seats_won integer
1	Indian National Congress - INC	99
2	Samajwadi Party - SP	37
3	All India Trinamool Congress - AITC	29
4	Dravida Munnetra Kazhagam - DMK	22
5	Shiv Sena (Uddhav Balasaheb Thackrey) - SHSUBT	9
6	Nationalist Congress Party Sharadchandra Pawar - NCPSP	8
7	Rashtriya Janata Dal - RJD	4
8	Communist Party of India (Marxist) - CPI(M)	4
9	Indian Union Muslim League - IUML	3
10	Aam Aadmi Party - AAAP	3
11	Jharkhand Mukti Morcha - JMM	3
12	Communist Party of India (Marxist-Leninist) (Liberation) - CPI(ML)...	2
13	Viduthalai Chiruthaigal Katchi - VCK	2
14	Jammu & Kashmir National Conference - JKN	2
15	Communist Party of India - CPI	2
16	Bharat Adivasi Party - BHRTADVSIP	1
17	Kerala Congress - KEC	1
18	Marumalarchi Dravida Munnetra Kazhagam - MDMK	1
19	Rashtriya Loktantrik Party - RLTP	1
20	Revolutionary Socialist Party - RSP	1

7.Add new column field in table partywise_results to get the Party Allianz as NDA, I.N.D.I.A and OTHER

ALTER TABLE parties
ADD COLUMN party_alliance VARCHAR(50)

I.N.D.I.A Allianz
UPDATE parties
SET party_alliance ='I.N.D.I.A'
WHERE party_name IN (
    'Indian National Congress - INC',
    '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 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 Janata Dal - RJD',
    'Rashtriya Loktantrik Party - RLTP',
    'Revolutionary Socialist Party - RSP',

```
    'Samajwadi Party - SP',
    'Shiv Sena (Uddhav Balasaheb Thackrey) - SHSUBT',
    'Viduthalai Chiruthaigal Katchi - VCK'
);
```

NDA Allianz

```
UPDATE parties
SET party_alliance ='NDA'
WHERE party_name IN (
    'Bharatiya Janata Party - BJP',
    'Telugu Desam - TDP',
    'Janata Dal  (United) - JD(U)',
    'Shiv Sena - SHS',
    'AJSU Party - AJSUP',
    'Apna Dal (Soneylal) - ADAL',
    'Asom Gana Parishad - AGP',
    'Hindustani Awam Morcha (Secular) - HAMS',
    'Janasena Party - JnP',
    'Janata Dal  (Secular) - JD(S)',
    'Lok Janshakti Party(Ram Vilas) - LJPRV',
    'Nationalist Congress Party - NCP',
    'Rashtriya Lok Dal - RLD',
    'Sikkim Krantikari Morcha - SKM'
);
```
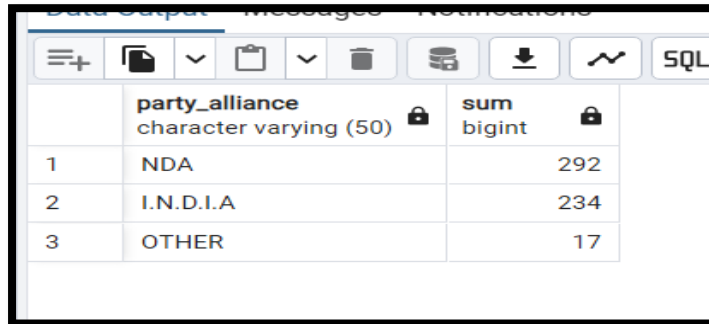
OTHER

```
UPDATE parties
SET party_alliance ='OTHER'
WHERE party_alliance IS NULL;
```

	party_name text	seats_won integer	party_id [PK] integer	party_alliance character varying (50)
1	AJSU Party - AJSUP	1	160	NDA
2	Apna Dal (Soneylal) - ADAL	1	2070	NDA
3	Asom Gana Parishad - AGP	1	83	NDA
4	Bharatiya Janata Party - BJP	240	369	NDA
5	Hindustani Awam Morcha (Secular) - HAMS	1	664	NDA
6	Janasena Party - JnP	2	860	NDA
7	Janata Dal (Secular) - JD(S)	2	804	NDA
8	Janata Dal (United) - JD(U)	12	805	NDA
9	Lok Janshakti Party(Ram Vilas) - LJPRV	5	3165	NDA
10	Nationalist Congress Party - NCP	1	1142	NDA
11	Rashtriya Lok Dal - RLD	2	1458	NDA
12	Shiv Sena - SHS	7	3529	NDA
13	Sikkim Krantikari Morcha - SKM	1	1658	NDA
14	Telugu Desam - TDP	16	1745	NDA
15	Aazad Samaj Party (Kanshi Ram) - ASPKR	1	2989	OTHER
16	All India Majlis-E-Ittehadul Muslimeen - AIMIM	1	118	OTHER
17	Independent - IND	7	743	OTHER
18	Shiromani Akali Dal - SAD	1	1584	OTHER
19	United People's Party, Liberal - UPPL	1	1998	OTHER
20	Voice of the People Party - VOTPP	1	3388	OTHER

Total rows: 42 of 42   Query complete 00:00:00.060

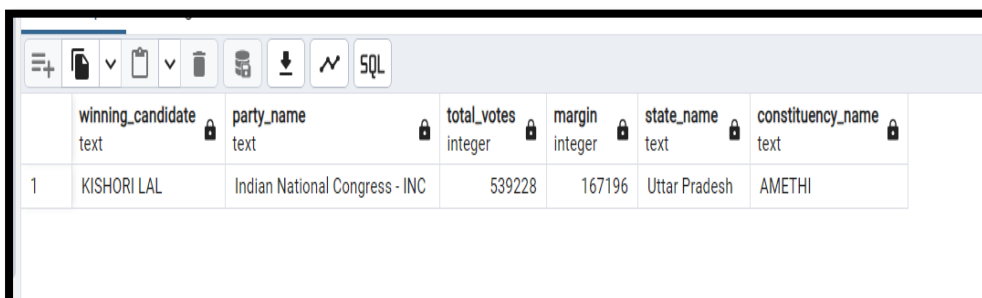## 8. Which party alliance (NDA, I.N.D.I.A, or OTHER) won the most seats across all states?

SELECT party_alliance, SUM(seats_won)
FROM parties
GROUP BY party_alliance
ORDER BY SUM(seats_won) DESC;

	party_alliance character varying (50)	sum bigint
1	NDA	292
2	I.N.D.I.A	234
3	OTHER	17

9. Winning candidate's name, their party name, total votes, and the margin of victory for a specific state and constituency?

SELECT
cr.winning_candidate,
p.party_name,
cr.total_votes,
cr.margin,
s.state_name,
cr.constituency_name
FROM constituencywise_results cr
JOIN parties p
ON cr.party_id = p.party_id
JOIN statewise_results sr
ON cr.parliament_constituency = sr.parliament_constituency
JOIN states s
ON sr.state_id = s.state_id
WHERE s.state_name = 'Uttar Pradesh' AND cr.constituency_name = 'AMETHI';

	winning_candidate text	party_name text	total_votes integer	margin integer	state_name text	constituency_name text
1	KISHORI LAL	Indian National Congress - INC	539228	167196	Uttar Pradesh	AMETHI

10. What is the distribution of EVM votes versus postal votes for candidates in a specific constituency?
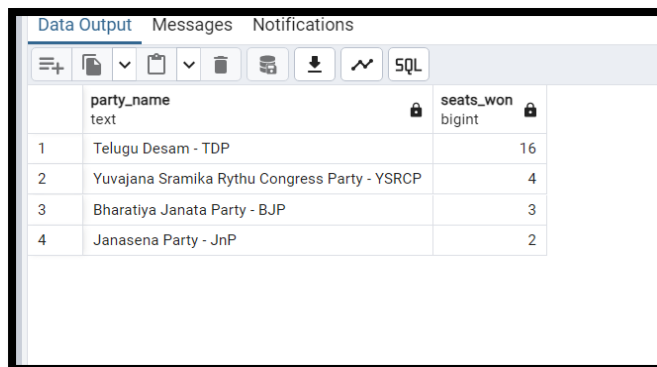
```sql
SELECT
    cd.candidate_name,
    cd.party_name,
    cd.evm_votes,
    cd.postal_votes,
    cd.total_votes,
    cr.constituency_name
FROM
    constituencywise_details cd
JOIN
    constituencywise_results cr ON cd.constituency_id = cr.Constituency_id
WHERE
    cr.constituency_name = 'MATHURA'
ORDER BY cd.total_votes DESC;
```

	candidate_name text	party_name text	evm_votes integer	postal_votes integer	total_votes integer	constituency_name text
1	HEMAMALINI DHARMENDRA DEOL	Bharatiya Janata Party	507535	2529	510064	MATHURA
2	MUKESH DHANGAR	Indian National Congress	216043	614	216657	MATHURA
3	SURESH SINGH	Bahujan Samaj Party	188152	265	188417	MATHURA
4	BHANU PRATAP SINGH	Independent	15640	25	15665	MATHURA
5	NOTA	None of the Above	4527	36	4563	MATHURA
6	RAKESH KUMAR	Independent	4492	2	4494	MATHURA
7	JAGDISH PRASAD KAUSHIK ADVOCATE	Rashtriya Samta Vikas Party	3567	8	3575	MATHURA
8	RAVI VERMA	Independent	2724	0	2724	MATHURA
9	SHIKHA SHARMA	Independent	2246	5	2251	MATHURA
10	KAMAL KANT SHARMA	Independent	1491	12	1503	MATHURA
11	YOGESH KUMAR TALAN	Independent	1491	2	1493	MATHURA
12	MONI FALHARI BAPU	Independent	1322	4	1326	MATHURA
13	KSHETRA PAL SINGH	Independent	1206	5	1211	MATHURA
14	DR. RASHMI YADAV	Independent	1183	6	1189	MATHURA
15	PRAVESHANAND PURI	Independent	1081	4	1085	MATHURA
16	SURESH CHANDRA VAGHEL	Rashtriya Shoshit Samaj Party	822	7	829	MATHURA

11. Which parties won the most seats in s State, and how many seats did each party win?

```sql
SELECT
p.party_name,
COUNT(cr.constituency_id) As Seats_Won
FROM  constituencywise_results cr
JOIN
parties p ON p.party_id = cr.party_id
JOIN
statewise_results sr ON sr.parliament_constituency = cr.parliament_constituency
JOIN
states s ON s.state_id = sr.state_id
WHERE s.state_name = 'Andhra Pradesh'
GROUP BY 1
```

ORDER BY 2 DESC;

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
s.state_name,
        SUM(CASE WHEN p.party_alliance ='NDA' THEN 1 ELSE 0 END) AS
NDA_SEATS_WON,
        SUM(CASE WHEN p.party_alliance ='I.N.D.I.A' THEN 1 ELSE 0 END) AS
INDIA_SEATS_WON,
        SUM(CASE WHEN p.party_alliance = 'OTHER' THEN 1 ELSE 0 END) AS
OTHER_SEATS_WON
FROM constituencywise_results cr
JOIN
parties p ON p.party_id = cr.party_id
JOIN
statewise_results sr ON sr.parliament_constituency = cr.parliament_constituency
JOIN
states s ON s.state_id = sr.state_id
WHERE s.state_name = 'Rajasthan'
GROUP BY s.state_name

	state_name text	nda_seats_won bigint	india_seats_won bigint	other_seats_won bigint
1	Uttarakhand	5	0	0
2	Himachal Pradesh	4	0	0
3	Assam	10	3	1
4	Andhra Pradesh	21	0	4
5	Madhya Pradesh	29	0	0
6	Sikkim	1	0	0
7	Jammu and Kashmir	2	2	1
8	Goa	1	1	0
9	Meghalaya	0	1	1
10	Maharashtra	17	30	1
11	Puducherry	0	1	0
12	Mizoram	0	0	1
13	Haryana	5	5	0
14	Tamil Nadu	0	39	0
15	Uttar Pradesh	36	43	1
16	Manipur	0	2	0
17	Dadra & Nagar Haveli and Daman & Diu	1	0	1
18	Jharkhand	9	5	0
19	Rajasthan	14	11	0
20	Gujarat	25	1	0
21	Karnataka	19	9	0

13. Which candidate received the highest number of EVM votes in each constituency (Top 10)?

```
SELECT
    cr.constituency_name,
    cd.constituency_id,
    cd.candidate_name,
    cd.evm_votes
FROM
    constituencywise_details cd
JOIN
    constituencywise_results cr ON cd.constituency_id = cr.constituency_id
WHERE
    cd.evm_votes = (
        SELECT MAX(cd1.EVM_Votes)
        FROM constituencywise_details cd1
        WHERE cd1.constituency_id = cd.constituency_id
    )
ORDER BY
    cd.evm_votes DESC
LIMIT 10;
```

constituency_name text	constituency_id text	candidate_name text	evm_votes integer
DHUBRI	S032	RAKIBUL HUSSAIN	1468549
INDORE	S1226	SHANKAR LALWANI	1223746
VIDISHA	S1218	SHIVRAJ SINGH CHOUHAN	1111556
BANGALORERURAL	S1023	DR C N MANJUNATH	1075553
RAIPUR	S268	BRIJMOHAN AGRAWAL	1047447
DIAMONDHARBOUR	S2521	ABHISHEK BANERJEE	1043493
NAVSARI	S0625	C R PATIL	1023366
GANDHINAGAR	S066	AMIT SHAH	999984
BANGALORENORTH	S1024	SHOBHA KARANDLAJE	982805
MALKAJGIRI	S297	EATALA RAJENDER	980712