

Sri Lankan Presidential Election Results 2024

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Introduction

This report presents an in-depth analysis of the 2024 Sri Lankan Presidential Election, demonstrating the use of modern data analytics and visualization tools to gain valuable insights into electoral outcomes. The project begins with structured data modeling in SQL, integrating information on candidates, districts, and polling stations. SQL queries were used to extract and analyze key metrics, such as vote distributions, leading and trailing candidates, and voter turnout across districts.

The analysis is further enhanced with Power BI dashboards, which provide a visual representation of the data through interactive maps, charts, and KPI indicators. These dashboards illustrate district-wise leading candidates, voter engagement, and overall election trends, allowing stakeholders to explore and interpret the data effectively.

By combining SQL and Power BI, this project showcases the potential of data-driven decision-making, providing a foundation for future applications in elections and beyond. It aims to serve as a guide for leveraging analytics to simplify complex datasets and deliver meaningful insights.

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1) Tables

1. Candidatewise_details

- **Columns:** CandidateID, CandidateName, PartyName, PartySymbol, Experience
- **Purpose:** Stores essential information about each candidate, including their political affiliation and background details.

2. CandidateWise Results

- **Columns:** CandidateID, PartyName, CandidatewiseTotalVotes, CandidatewisePreferential, CandidatewiseTotal (calculated as the sum of CandidatewiseTotalVotes and CandidatewisePreferential)
- **Purpose:** Captures the total votes for each candidate based on different voting methods. We can calculate the percentage of total votes in queries.

3. District

- **Columns:** DistrictID, DistrictName , Province, Country
- **Purpose:** Define each district for referencing in other tables.

4. Districtwise_results

- **Columns:** LeadingCandidateID, TrailingCandidateID, LeadingCandidateEVM, LeadingCandidatePostal, LeadingCandidatePreferential, LeadingCandidateTotal, DistrictID, DistrictName
- **Purpose:** Summarizes the results for each district, including vote counts by method for the leading candidate. We can also calculate the percentage of votes for the leading candidate during queries.

5. PollingStationwise_Details

- **Columns:** PollingStation, PollingStationID, DistrictID, WinningCandidateID, NoRegisteredElectors, TotalNoValidVotes, NoRejectedVotes, NoVotesPolled , DistrictName
- **Purpose:** Stores details about each polling station, including the winning candidate and voter turnout statistics.

2) Meaning of Each Column

2.1 Candidatewise_details

Primary Key: CandidateID

Columns:

- CandidateID (VARCHAR): Unique identifier for each candidate (Primary Key).
- CandidateName (STRING): Full name of the candidate.
- PartyName (STRING): Name of the candidate's political party.
- PartySymbol (STRING): Symbol representing the candidate's party.
- Experience (INTEGER or STRING): Candidate's experience, such as years in politics or related roles.

2.2 CandidateWise Results

Primary Key: CandidateID

Columns:

- CandidateID (VARCHAR): Unique identifier linking to each candidate (Primary Key, Foreign Key to Candidatewise_Details).
- PartyName (STRING): Name of the candidate's political party.
- CandidatewiseTotalVotes (INTEGER): Total general votes received by each candidate.
- CandidatewisePreferential (INTEGER): Total preferential votes received by each candidate.
- CandidatewiseTotal (INTEGER): Combined total of general and preferential votes.

2.3 District

Primary Key: DistrictID

Columns:

- DistrictID (VARCHAR): Unique identifier for each district (Primary Key).
- DistrictName (STRING): Name of each district.

- Country (STRING)
- Province (STRING)

2.4 Districtwise_results

Primary Key: DistrictID

Columns:

- DistrictID (VARCHAR): Unique identifier linking to each district (Primary Key, Foreign Key to District).
- LeadingCandidateID (VARCHAR): Unique identifier of the leading candidate in each district (Foreign Key to Candidatewise_Details).
- TrailingCandidateID (VARCHAR): Unique identifier of the trailing candidate in each district (Foreign Key to Candidatewise_Details).
- LeadingCandidateEVM (INTEGER): Total votes received by the leading candidate through EVM.
- LeadingCandidatePostal (INTEGER): Total postal votes received by the leading candidate.
- LeadingCandidatePreferential (INTEGER): Preferential votes received by the leading candidate.
- LeadingCandidateTotal (INTEGER): Total votes received by the leading candidate, combining all voting types.
- DistrictName (STRING): Name of each district.

2.5 PollingStationwise_Details

Primary Key: PollingStationID

Columns:

- PollingStationID (VARCHAR): Unique identifier for each polling station (Primary Key).
- PollingStation (STRING): Name of the polling station.
- DistrictID (VARCHAR): Identifier linking to the district of the polling station (Foreign Key to District).
- WinningCandidateID (VARCHAR): Identifier of the winning candidate at this polling station (Foreign Key to Candidatewise_Details).
- NoRegisteredElectors (INTEGER): Number of registered electors at the polling station.
- TotalNoValidVotes (INTEGER): Total number of valid votes cast at the polling station.
- NoRejectedVotes (INTEGER): Number of votes rejected.
- NoVotesPolled (INTEGER): Total number of votes polled at the station, including both valid and rejected votes.
- DistrictName (STRING): Name of each district.

3) Primary Keys and Foreign Keys

. Primary Keys:

- CandidateID in Candidatewise_Details and Candidatewise_Results.
- DistrictID in District.
- PollingStationID in PollingStationwise_Details.

. Foreign Keys:

- CandidateID in Candidatewise_Results, and LeadingCandidateID and TrailingCandidateID in Districtwise_Results linking to Candidatewise_Details.
- DistrictID in PollingStationwise_Details and Districtwise_Results linking to the District table.
- WinningCandidateID in PollingStationwise_Details linking to Candidatewise_Details.

4) Fact Table & Dimension Tables

4.1 Fact Table

CandidateWise Results

- **Reason for Fact Table:**
 - This table contains the core quantitative data to be analyzed, specifically the vote counts (CandidatewiseTotalVotes, CandidatewisePreferential, CandidatewiseTotal) for each candidate.
 - Fact tables in data models typically store measurable data with foreign keys referencing dimensions. Here, CandidateWise Results provides the essential measurable elements for analysis (vote counts per candidate).
 - As the central fact table, it enables aggregation and filtering by various dimensions, such as party, district, and polling station.
- **Columns:**
 - CandidateID (Foreign Key to link to candidate details)
 - Party Name
 - CandidatewiseTotalVotes
 - CandidatewisePreferential
 - CandidatewiseTotal

4.2 Dimension Tables

Each of the following tables serves to add descriptive or contextual information to the model. Dimension tables store qualitative data and provide context for the quantitative data in the fact table.

4.2.1 Candidatewise_details

- **Reason for Dimension Table:**
 - This table contains descriptive attributes of each candidate, such as CandidateID, CandidateName, PartyName, PartySymbol, and Experience.
 - Dimension tables typically hold descriptive details, useful for adding context without increasing the complexity of fact tables.
 - This dimension allows slicing and dicing of fact table data by candidate attributes (e.g., analyzing votes by candidate's party or experience). **Primary Key:** CandidateID, which links to CandidateWise Results.
- **Primary Key :** CandidateID, which links to CandidateWise Results.

4.2.2 District

- **Reason for Dimension Table:**
 - The District table provides geographic context, aiding in the analysis of votes by location.
 - Dimension tables often represent entities like locations, time, or categories. District is a location category dimension, offering valuable filtering options without storing redundant location information directly in the fact table.
- **Primary Key:** DistrictID, which is used to link with district-level or constituency-level tables.

4.2.3 Districtwise_Results

- **Reason for Dimension Table:**
 - This table summarizes the results at the district level, with attributes like LeadingCandidateID, TrailingCandidateID, LeadingCandidateEVM, LeadingCandidatePostal, LeadingCandidatePreferential, and LeadingCandidateTotal, DistrictName
 - It provides valuable context on candidate performance in each district, enabling analysis by leading and trailing results without adding complexity to the main fact table.
 - This table serves as a useful summary of district performance, enhancing the detail available in regional analysis.
- **Primary Key:** DistrictID (Foreign Key to District), with LeadingCandidateID and TrailingCandidateID linking to candidates in Candidatewise_Details.

4.2.4 PollingStationwise_Details

- **Reason for Dimension Table:**
 - This table provides details on each constituency, including PollingStation, PollingStationID, DistrictID, WinningCandidateID, NoRegisteredElectors, TotalNoValidVotes, NoRejectedVotes, NoVotesPolled, DistrictName
 - By adding context on voter registration and turnout at the constituency level, this table allows for a granular analysis of voting behavior by region.
 - This data enhances the analysis of voter engagement and candidate success at the local level.
- **Primary Key:** PollingStationID, which links to constituency-specific data and provides regional context for the fact data.

Summary of Structure

- **Fact Table:**
 - **CandidateWise Results:** This table captures the primary quantitative metrics (vote counts) that you want to analyze.
- **Dimension Tables:**
 - **Candidatewise_details:** Attributes related to candidates.
 - **District:** Attributes related to districts.
 - **Districtwise_results:** Summary data that provides context for district-level performance.
 - **PollingStation_Details:** Attributes related to constituencies and voter statistics.

Why This Structure?

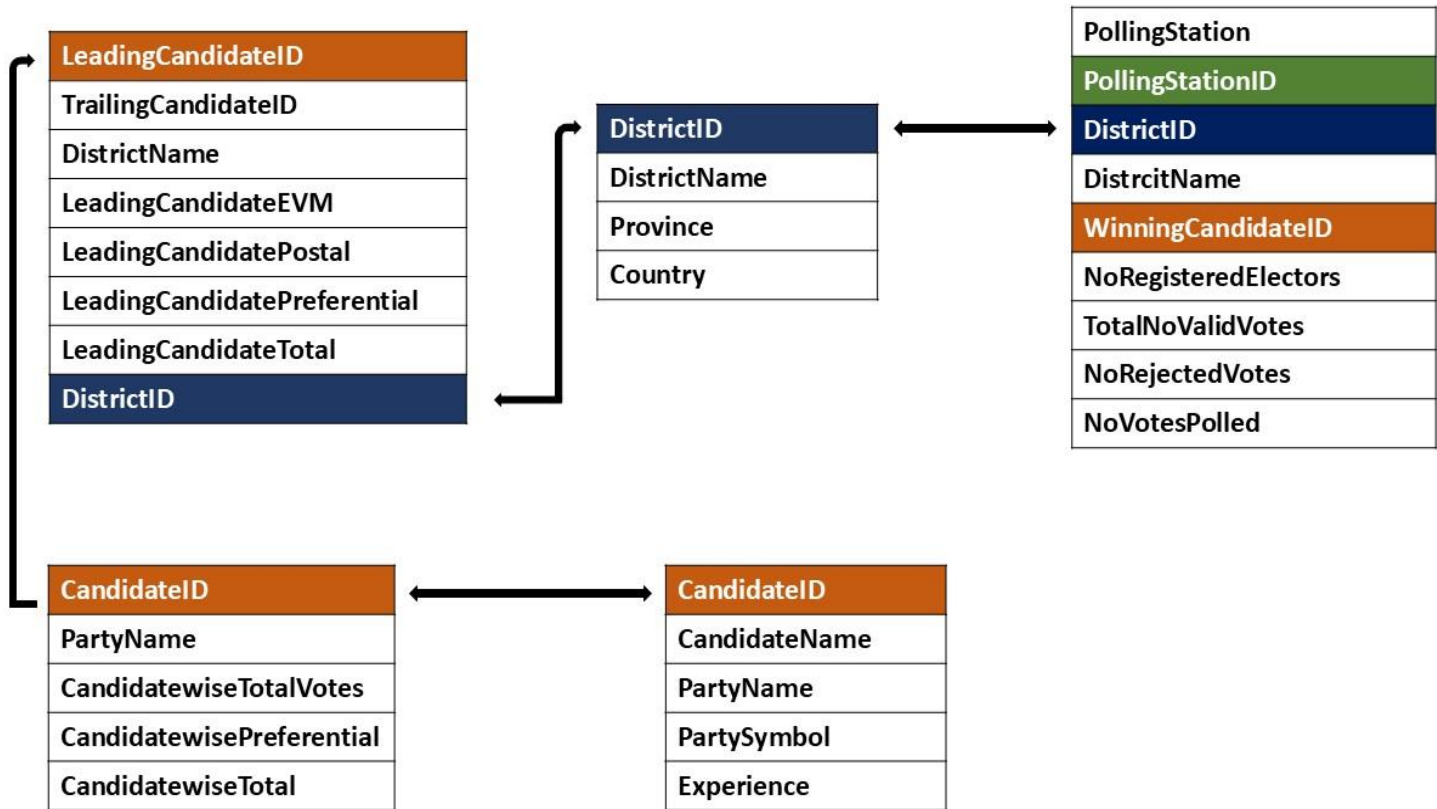
- **Ease of Analysis:**

This structure allows you to perform complex queries and analyses easily. For example, you can analyze how different candidates performed in various districts and constituencies.
- **Flexibility:**

It provides flexibility in reporting and visualization, enabling you to slice and dice the data based on candidates, regions, and voter behavior.
- **Performance:**

In a star schema, querying is generally faster because the fact table contains the metrics of interest, while dimension tables hold the attributes that can be joined to filter or categorize those metrics.

5) Structure of the Tables



6) SQL Data Analysis

1. Which candidate received the highest total votes overall?

- This query combines the Candidatewise_details and CandidateWise Results tables to find the candidate with the highest total votes.

```
SELECT TOP 1
    cd.CandidateName,
    cd.PartyName,
    cr.CandidatewiseTotalVotes
FROM
    Candidatewise_Details AS cd
JOIN
    Candidatewise_Results AS cr
ON
    cd.CandidateID=cr.CandidateID
ORDER BY
    cr.CandidatewiseTotalVotes DESC;
```

Results Messages			
	CandidateName	PartyName	CandidatewiseTotalVotes
1	Anura Kumara Dissanayake	National People's Power	5634915

2. What is the leading and trailing candidate in each district?

- This query combines Districtwise_results, Candidatewise_details, and District tables to show the leading and trailing candidates for each district.

```
SELECT
    d.DistrictName,
    lc.CandidateName AS Leading_Candidate,
    tc.CandidateName AS Trailing_Candidate,
    dr.LeadingCandidateTotal
FROM
    Districtwise_Results AS dr
JOIN
    Candidatewise_Details AS lc
    ON
        dr.LeadingCandidateID=lc.CandidateID
JOIN
    Candidatewise_Details AS tc
    ON
        dr.TrailingCandidateID=tc.CandidateID
JOIN
    District AS d
    ON
        dr.DistrictID=d.DistrictID;
```

100 %

	DistrictName	Leading_Candidate	Trailing_Candidate	LeadingCandidateTotal
1	Colombo	Anura Kumara Dissanayake	Sajith Premadasa	647865
2	Jaffna	Sajith Premadasa	Anura Kumara Dissanayake	142688
3	Vanni	Sajith Premadasa	Anuruddha Polgampola	101584
4	Batticaloa	Sajith Premadasa	Battaramulle Seelaratana Thero	146301
5	Digamadulla	Sajith Premadasa	D. M. Bandaranaike	205198
6	Trincomalee	Sajith Premadasa	Anura Kumara Dissanayake	124707
7	Kurunegala	Anura Kumara Dissanayake	Sajith Premadasa	551171
8	Puttalam	Anura Kumara Dissanayake	Sajith Premadasa	209283
9	Anuradhapura	Anura Kumara Dissanayake	Sajith Premadasa	288717
10	Polonnaruwa	Anura Kumara Dissanayake	Sajith Premadasa	131921
11	Badulla	Anura Kumara Dissanayake	Sajith Premadasa	200720

Query executed successfully. LAPTOP-6L546SR\SQL EXPRESS ... LAPTOP-6L546SR\Hp (70) SriLankan_Pridential_E... 00:00:00 22 rows

	DistrictName	Leading_Candidate	Trailing_Candidate	LeadingCandidateTotal
12	Gampaha	Anura Kumara Dissanayake	Sajith Premadasa	821627
13	Monaragala	Anura Kumara Dissanayake	Sajith Premadasa	141664
14	Ratnapura	Anura Kumara Dissanayake	Sajith Premadasa	296596
15	Kegalle	Anura Kumara Dissanayake	Sajith Premadasa	251048
16	Kalutara	Anura Kumara Dissanayake	Sajith Premadasa	393899
17	Kandy	Anura Kumara Dissanayake	Sajith Premadasa	402554
18	Matale	Anura Kumara Dissanayake	Sajith Premadasa	142453
19	Nuwara Eliya	Sajith Premadasa	Anura Kumara Dissanayake	207254
20	Galle	Anura Kumara Dissanayake	Sajith Premadasa	371435
21	Matara	Anura Kumara Dissanayake	Sajith Premadasa	290792
22	Hambantota	Anura Kumara Dissanayake	Sajith Premadasa	223676

Query executed successfully. LAPTOP-6L546SR\SQL EXPRESS ... LAPTOP-6L546SR\Hp (70) SriLankan_Pridential_E... 00:00:00 22 rows

3. What is the total number of registered electors and votes polled per district?

- This query combines the PollingStation_Results and District tables to get the total number of electors and votes polled by district.

```
SELECT
    d.DistrictName,
    SUM(pr.NoRegisteredElectors) AS TotalRegisteredElectors,
    SUM(pr.NoVotesPolled) AS TotalVotesPolled
FROM
    PollingStationwise_Results AS pr
JOIN
    District AS d
    ON
        pr.DistrictID=d.DistrictID
GROUP BY
    d.DistrictName;
```

100 %

Results Messages

	DistrictName	TotalRegisteredElectors	TotalVotesPolled
1	Anuradhapura	686671	558984
2	Badulla	663711	543172
3	Batticaloa	436570	314585
4	Colombo	1729715	1330937
5	Digamadulla	528654	403403
6	Galle	861726	684294
7	Gampaha	1828643	1435765
8	Hambantota	498773	411507
9	Jaffna	567758	371891
10	Kalutara	986896	797039
11	Kandy	1135602	902475

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Results Messages

	DistrictName	TotalRegisteredElectors	TotalVotesPolled
12	Kegalle	674519	546759
13	Kurunegala	1340249	1073270
14	Matale	408324	326243
15	Matara	655293	527519
16	Monaragala	374369	317209
17	Nuwara Eliya	585565	469067
18	Polonnaruwa	331444	269180
19	Puttalam	648706	463661
20	Ratnapura	891206	724791
21	Trincomalee	300961	230502
22	Vanni	292692	213542

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4. What is the vote distribution by type (EVM, Postal, Preferential) for each candidate?

- This query will provide details on each vote type for every candidate, combining Candidatewise_details and CandidateWise Results.

```
SELECT
    cd.CandidateName,
    cr.PartyName,
    cr.CandidatewiseTotalVotes,
    cr.CandidatewisePreferential,
    cr.CandidatewiseTotal
FROM
    Candidatewise_details cd
JOIN
    CandidateWise_Results cr
    ON
        cd.CandidateID = cr.CandidateID
ORDER BY
    cr.CandidatewiseTotal DESC;
```

Results

Messages

	CandidateName	PartyName	CandidatewiseTotalVotes	CandidatewisePreferential	CandidatewiseTotal
1	Anura Kumara Dissanayake	National People's Power	5634915	105264	5740179
2	Sajith Premadasa	Samagi Jana Balawegaya	4363035	167867	4530902
3	Ranil Wickremesinghe	Independent 10	2299767	0	2299767
4	Namal Rajapaksa	Sri Lanka Podujana Peramuna	342781	0	342781
5	P. Ariyanethiran	Independent 9	226343	0	226343
6	Dilith Jayaweera	Communist Party of Sri Lanka	122396	0	122396
7	K. K. Piyadasa	Independent 5	47543	0	47543
8	D. M. Bandaranaike	Independent 4	30660	0	30660
9	Sarath Fonseka	Independent 11	22407	0	22407
10	Wijeyadasa Rajapakshe	National Democratic Front	21306	0	21306
11	Anuruddha Polgampola	Independent 3	15411	0	15411

Query executed successfully.

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Results		Messages			
	CandidateName	PartyName	CandidatewiseTotalVotes	CandidatewisePreferential	CandidatewiseTotal
11	Anuruddha Polgampola	Independent 3	15411	0	15411
12	Sarath Keerthirathne	independent 12	15187	0	15187
13	K. R. Krishan	Arunalu People's Front	13595	0	13595
14	Suranjeewa Anoj de Silva	Democratic United National ...	12898	0	12898
15	Priyantha Wickremesinghe	Nava Sama Samaja Party	12760	0	12760
16	Namal Rajapaksha	Samabima Party	12700	0	12700
17	Akmeemana Dayarathana...	Independent 1	11536	0	11536
18	Nuwan Bopage	Socialist People's Forum	11191	0	11191
19	Ajantha de Zozya	Ruhuna People's Party	10548	0	10548
20	Victor Anthony Perera	Independent 15	10374	0	10374
21	Sripala Amarasinghe	Independent 14	9035	0	9035

Query executed successfully.

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Results		Messages			
	CandidateName	PartyName	CandidatewiseTotalVotes	CandidatewisePreferential	CandidatewiseTotal
22	Siritunga Jayasuriya	United Socialist Party	8954	0	8954
23	Battaramulle Seelaratana...	People's Welfare Front	6839	0	6839
24	Abubakar Mohamed Infaz	Democratic Unity Alliance	6531	0	6531
25	Mahinda Deawage	Socialist Party of Sri Lanka	5338	0	5338
26	Keerthi Wickremaratne	Our People's Power Party	4676	0	4676
27	Pani Wijesiriwardena	Socialist Equality Party	4410	0	4410
28	Oshala Herath	New independent Front	4253	0	4253
29	Roshan Ranasinghe	Independent 11	4205	0	4205
30	P. W. S. K. Bandaranayake	National Development Front	4070	0	4070
31	Ananda Kularatne	Independent 2	4013	0	4013
32	Lalith de Silva	United National Freedom Front	3004	0	3004
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Results

Messages

	CandidateName	PartyName	CandidatewiseTotalVotes	CandidatewisePreferential	Candidatewise Total
29	Roshan Ranasinghe	Independent 11	4205	0	4205
30	P. W. S. K. Bandaranayake	National Development Front	4070	0	4070
31	Ananda Kularatne	Independent 2	4013	0	4013
32	Lalith de Silva	United National Freedom Front	3004	0	3004
33	Sidney Jayarathna	Independent 13	2799	0	2799
34	Janaka Ratnayake	United Lanka People's Party	2405	0	2405
35	M. Thilakarajah	Independent 7	2138	0	2138
36	Sarath Manamendra	New Sinhala Heritage	1911	0	1911
37	A.S.P.Liyanaage	Sri Lanka Labour Party	1860	0	1860
38	M. M. Premasiri	Independent 6	0	0	0
39	Mohamed Illiyas	Independent 8	0	0	0

Query executed successfully.

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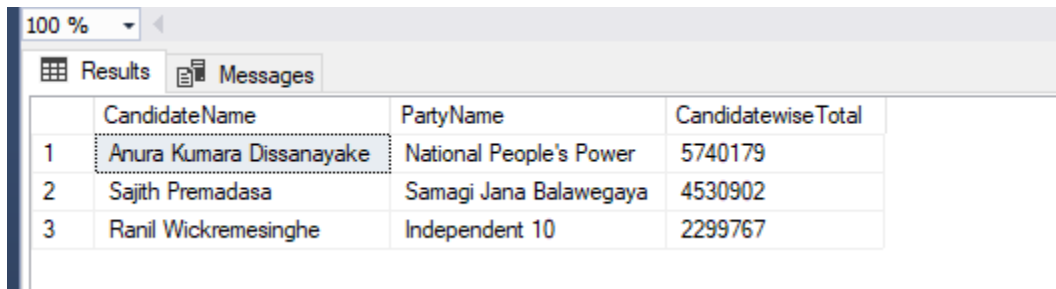
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5.Retrieve each candidate's name, party, and total votes only for candidates whose party received more than 500,000 votes overall.

```
SELECT
    cd.CandidateName,
    cd.PartyName,
    cr.CandidatewiseTotal
FROM
    Candidatewise_Results AS cr
JOIN
    Candidatewise_Details AS cd
    ON
        cr.CandidateID=cd.CandidateID
WHERE
    cr.CandidatewiseTotalVotes > 500000
ORDER BY
    cr.CandidatewiseTotalVotes DESC;
```



	CandidateName	PartyName	CandidatewiseTotal
1	Anura Kumara Disanayake	National People's Power	5740179
2	Sajith Premadasa	Samagi Jana Balawegaya	4530902
3	Ranil Wickremesinghe	Independent 10	2299767

6. Retrieve each district's name and the total votes of the Leading candidate, only for districts where the Leading candidate's name starts with "A" and their total votes exceed 100,000.

```

SELECT
    d.DistrictName,
    cd.CandidateName AS 'Anura as Winning candidate',
    dr.LeadingCandidateTotal AS Results
FROM
    District AS d
JOIN
    Districtwise_Results AS dr
        ON
            d.DistrictID=dr.DistrictID
JOIN
    Candidatewise_Details AS cd
        ON
            dr.LeadingCandidateID=cd.CandidateID
WHERE
    cd.CandidateName LIKE 'A%'
    AND dr.LeadingCandidateTotal > 100000;

```

	DistrictName	Anura as Winning candidate	Results
1	Colombo	Anura Kumara Dissanayake	647865
2	Kurunegala	Anura Kumara Dissanayake	551171
3	Puttalam	Anura Kumara Dissanayake	209283
4	Anuradhapura	Anura Kumara Dissanayake	288717
5	Polonnaruwa	Anura Kumara Dissanayake	131921
6	Badulla	Anura Kumara Dissanayake	200720
7	Gampaha	Anura Kumara Dissanayake	821627
8	Monaragala	Anura Kumara Dissanayake	141664
9	Ratnapura	Anura Kumara Dissanayake	296596
10	Kegalle	Anura Kumara Dissanayake	251048
11	Kalutara	Anura Kumara Dissanayake	393899

	DistrictName	Anura as Winning candidate	Results
6	Badulla	Anura Kumara Dissanayake	200720
7	Gampaha	Anura Kumara Dissanayake	821627
8	Monaragala	Anura Kumara Dissanayake	141664
9	Ratnapura	Anura Kumara Dissanayake	296596
10	Kegalle	Anura Kumara Dissanayake	251048
11	Kalutara	Anura Kumara Dissanayake	393899
12	Kandy	Anura Kumara Dissanayake	402554
13	Matale	Anura Kumara Dissanayake	142453
14	Galle	Anura Kumara Dissanayake	371435
15	Matara	Anura Kumara Dissanayake	290792
16	Hambantota	Anura Kumara Dissanayake	223676

7. Find the top three candidates in terms of total votes across all polling stations, along with their polling station details

```
SELECT
    cd.CandidateName,
    cd.PartyName,
    pr.PollingStation,
    pr.TotalNoValidVotes
FROM
    PollingStationwise_Results AS pr
JOIN
    Candidatewise_Details AS cd
    ON
        pr.WinningCandidateID=cd.CandidateID
WHERE
    pr.TotalNoValidVotes
    IN
        (SELECT TOP 5 TotalNoValidVotes FROM
        PollingStationwise_Results ORDER BY
        TotalNoValidVotes DESC)
ORDER BY
    TotalNoValidVotes DESC;
```

Results		Messages		
	CandidateName	PartyName	PollingStation	TotalNoValidVotes
1	Sajith Premadasa	Samagi Jana Balawegaya	Nuwara-Eliya-Maskeliya	280273
2	Anura Kumara Dissanayake	National People's Power	Homagama	161728
3	Anura Kumara Dissanayake	National People's Power	Kaduwela	150692
4	Anura Kumara Dissanayake	National People's Power	Tissamaharama	148211
5	Sajith Premadasa	Samagi Jana Balawegaya	Batticaloa	147738

8. Calculate the total number of registered electors, valid votes, and rejected votes for each district, only for districts where the total registered electors exceed 100,000.

```
SELECT
    d.DistrictName,
    SUM(pr.NoRegisteredElectors) AS 'Total No. Registered Electors',
    SUM(pr.TotalNoValidVotes) AS 'Total No. Valid Votes',
    SUM(pr.NoRejectedVotes) AS 'Total No. Rejected Votes',
    SUM(pr.NoVotesPolled ) AS 'Total No. Polled Votes'
FROM
    PollingStationwise_Results AS pr
JOIN
    District AS d
    ON
        pr.DistrictID=d.DistrictID
GROUP BY
    d.DistrictName
HAVING
    SUM(pr.NoRegisteredElectors) > 100000
ORDER BY
    d.DistrictName;
```

	DistrictName	Total No. Registered Electors	Total No. Valid Votes	Total No. Rejected Votes	Total No. Polled Votes
1	Anuradhapura	686671	550202	8782	558984
2	Badulla	663711	528436	14736	543172
3	Batticaloa	436570	305944	8641	314585
4	Colombo	1729715	1300200	30737	1330937
5	Digamadulla	528654	397331	6072	403403
6	Galle	861726	672680	11614	684294
7	Gampaha	1828643	1407800	27965	1435765
8	Hambantota	498773	405513	5994	411507
9	Jaffna	567758	347627	24264	371891
10	Kalutara	986896	781557	15480	797039
11	Kandy	1135602	879816	22659	902475

Query executed successfully. | LAPTOP-6L546SRI\SQLXPRI

	DistrictName	Total No. Registered Electors	Total No. Valid Votes	Total No. Rejected Votes	Total No. Polled Votes
12	Kegalle	674519	537775	10984	546759
13	Kurunegala	1340249	1075710	17560	1073270
14	Matale	408324	318806	7437	326243
15	Matara	655293	538425	9094	527519
16	Monaragala	374369	311095	6116	317209
17	Nuwara Eliya	585565	474960	14107	469067
18	Polonnaruwa	331444	264590	4590	269180
19	Puttalam	648706	455672	7991	463661
20	Ratnapura	891206	710361	119642	724791
21	Trincomalee	300961	224998	5504	230502
22	Vanni	292692	204505	9037	213542

Query executed successfully. | LAPTOP-6L546SRI\SQLXPRI

7) KPI

1) District-Wise Leading Candidate Analysis - Shows which candidate leads in each district, offering a visual overview of candidate dominance geographically.

2) Average District-Wise Voting Statistics:

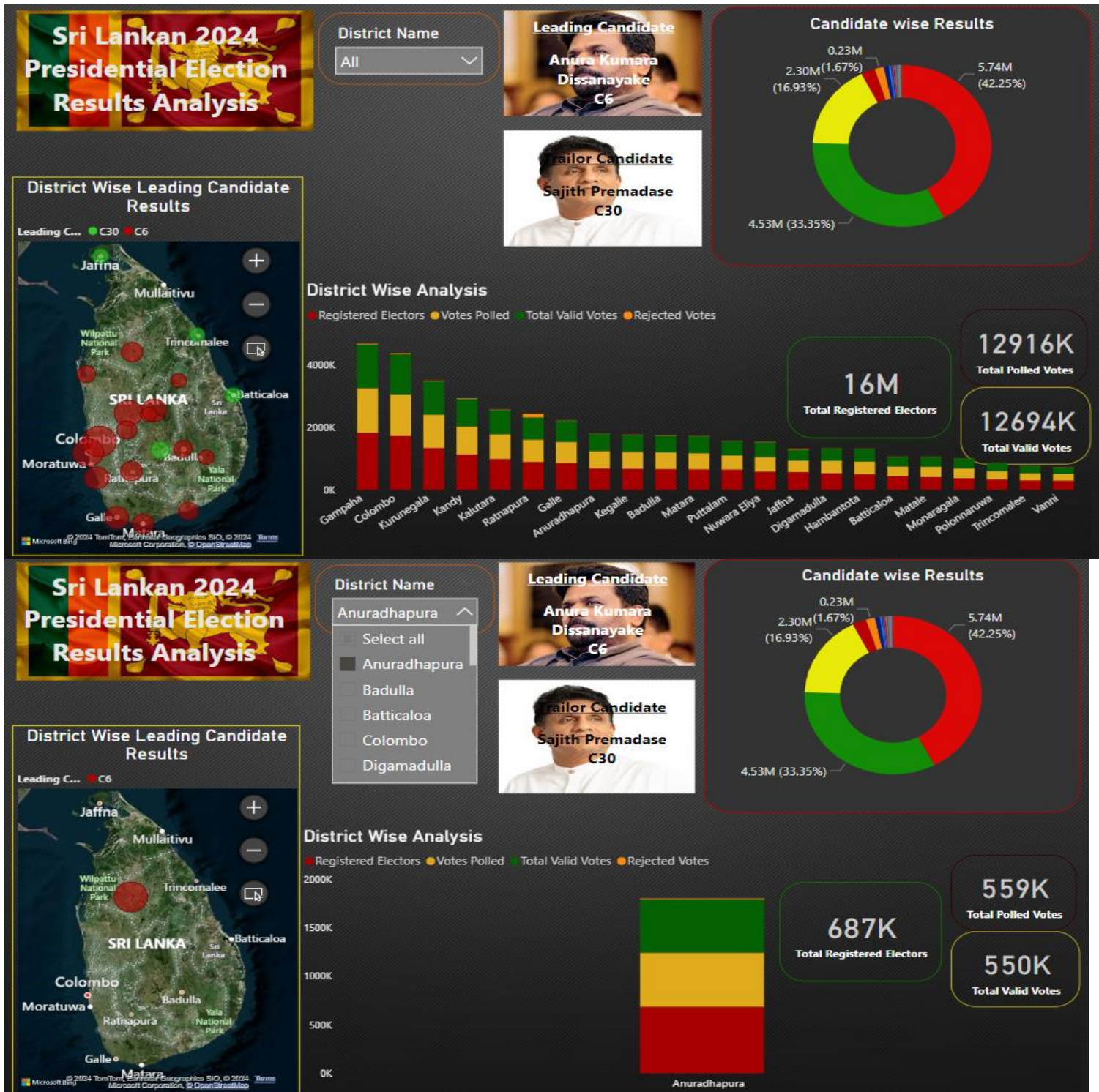
- Average Registered Electors per District - Average count of voters registered per district.
- Average Votes Polled per District - Provides insight into voter turnout averages.
- Average Valid Votes per District - Indicates how many votes counted as valid on average.
- Average Rejected Votes per District - Shows the average rate of rejected votes, useful for assessing any issues in the voting process.

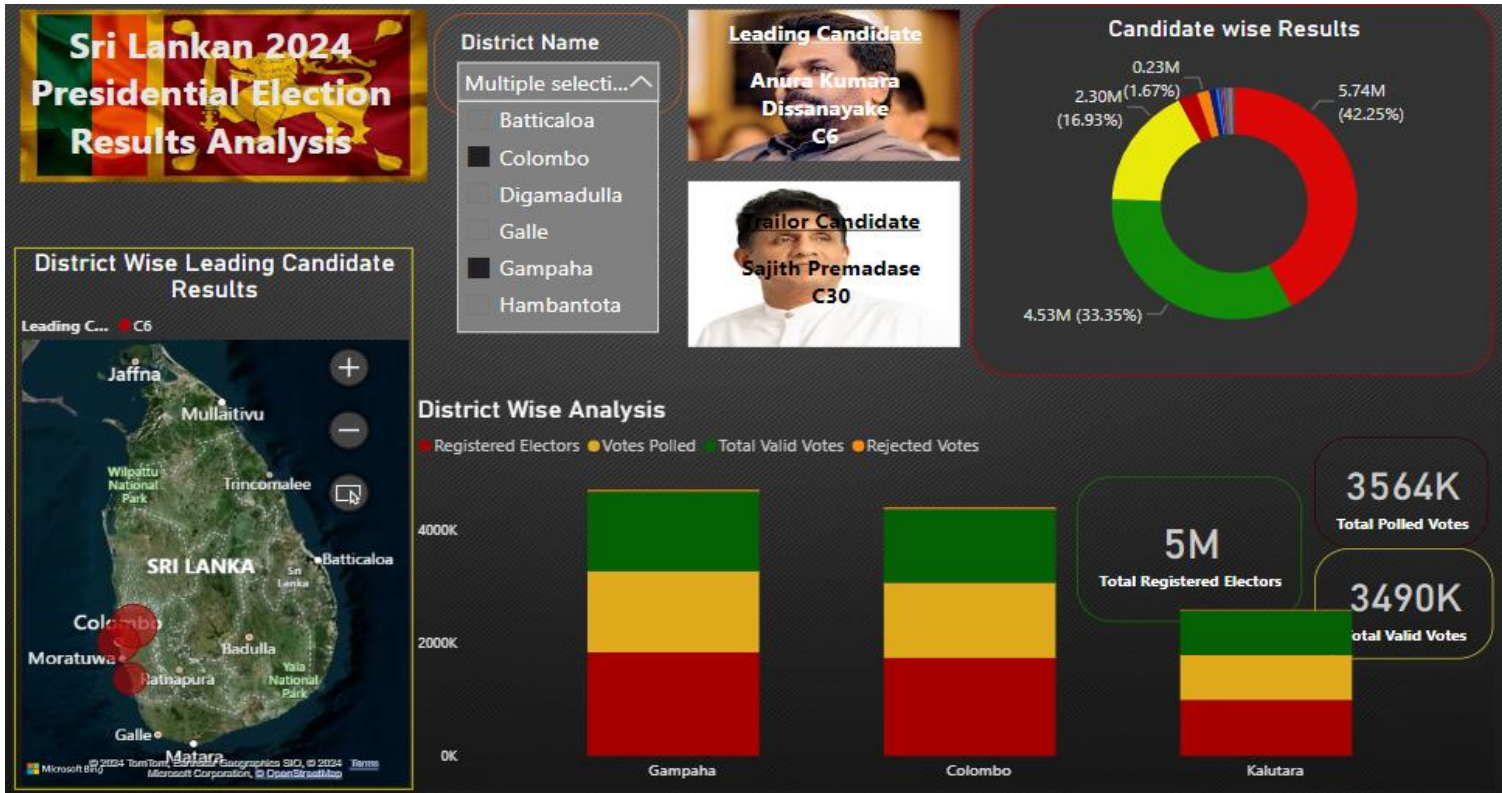
3) Total Voter Metrics - KPI cards showing overall turnout and participation:

- Total Registered Electors - Total number of people eligible to vote across all polling stations.
- Total Polled Voters - Total number of votes cast, indicating overall voter turnout.
- Total Valid Votes - Total valid votes cast across all polling stations, a measure of effective participation.

4) Candidate Performance Breakdown (Pie Chart) - Displays vote distribution among candidates, providing insight into each candidate's share of the total vote.

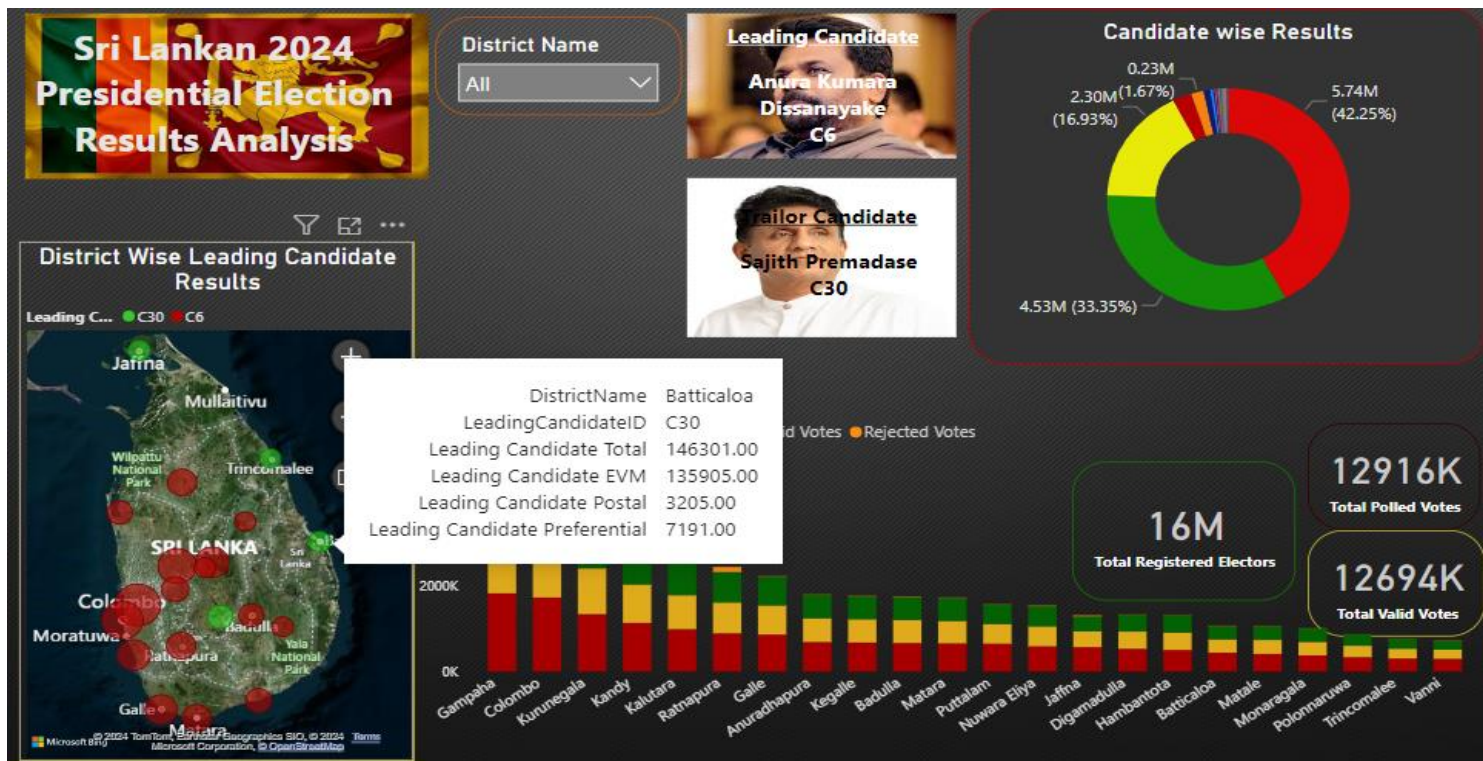
8) Power BI Visualization

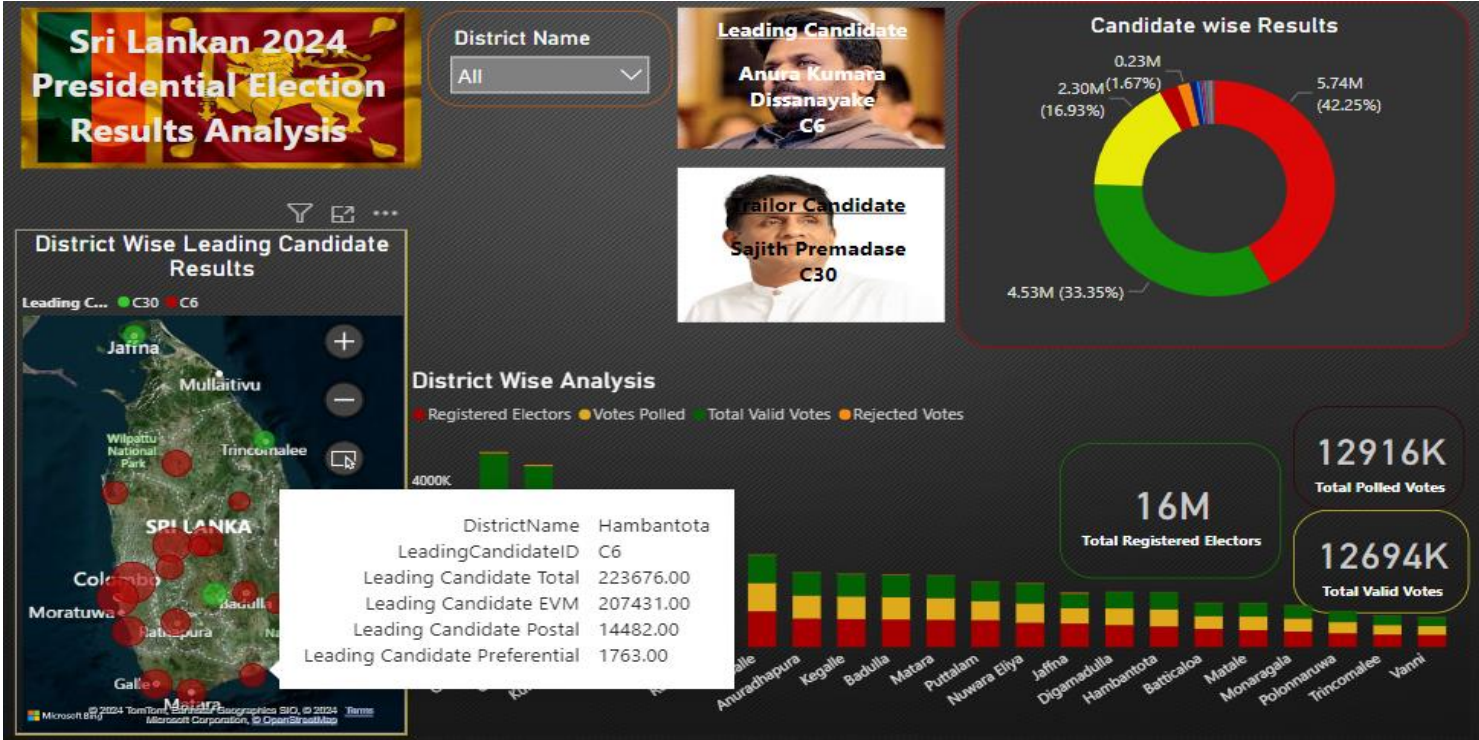




1) District-Wise Leading Candidate Overview

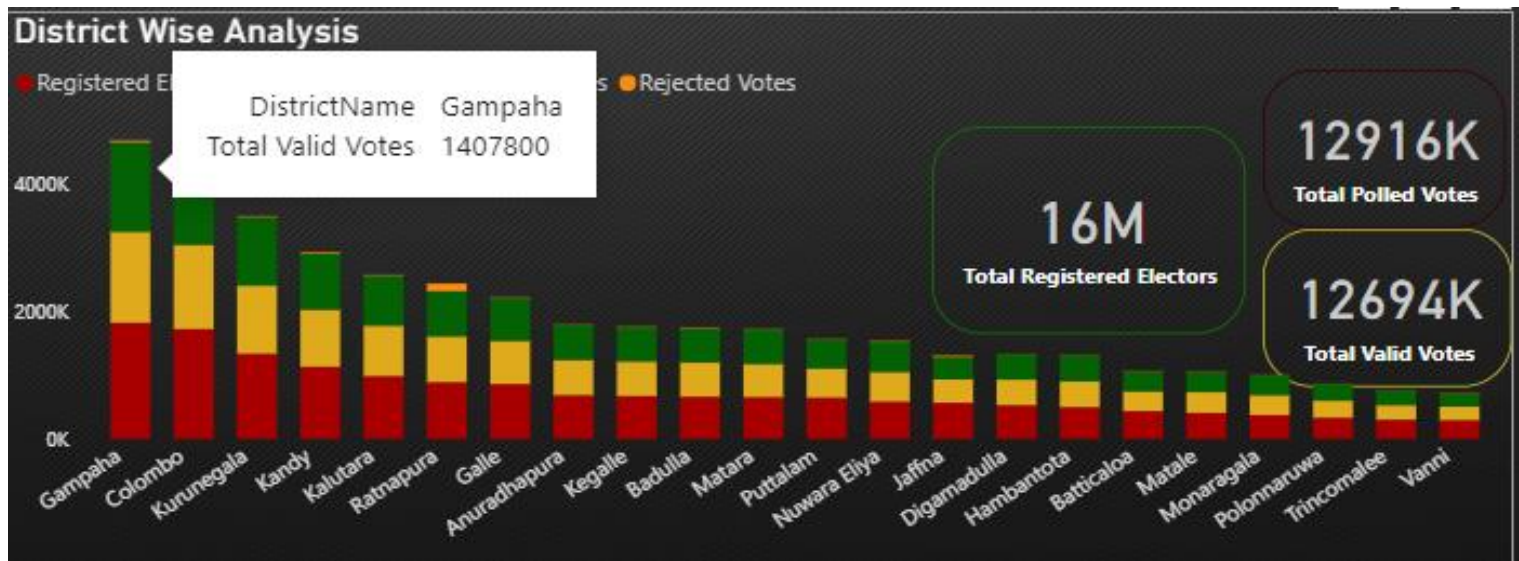
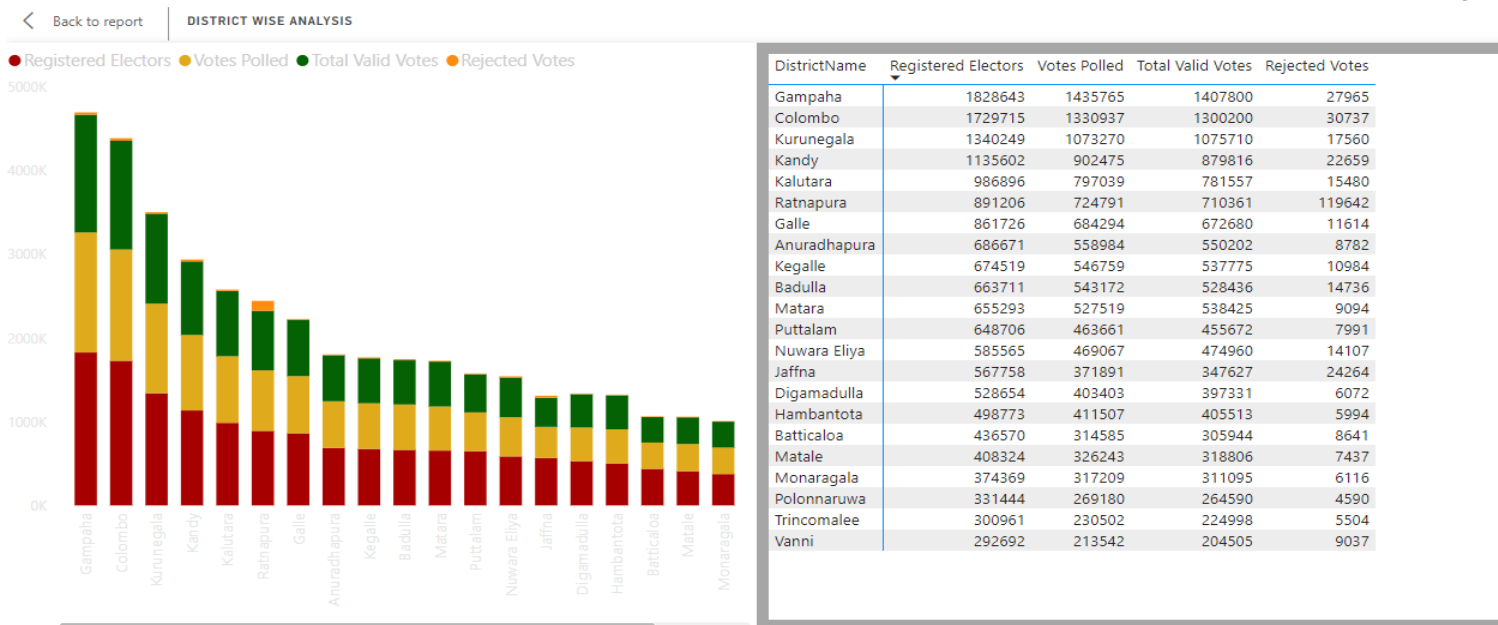
- Visualization: Filled Map
- Details: Displays the leading candidate per district using LeadingCandidateID, with color-coding for each candidate. Tooltips provide additional insights into each district's leading candidate.
- Purpose: Offers a geographic perspective of candidate performance, making it easy to see where each candidate holds the most support.





2) District-Wise Voting Statistics Analysis

- Visualization: Stacked Column Chart
- Details: Displays the average values of NoRegisteredElectors, NoVotesPolled, TotalValidVotes, and NoRejectedVotes for each district, giving a breakdown of voter engagement across districts.
- Purpose: Helps to visualize district-level engagement, including overall participation and rejected votes, highlighting areas with high or low voter turnout.



3) Total Voter Metrics

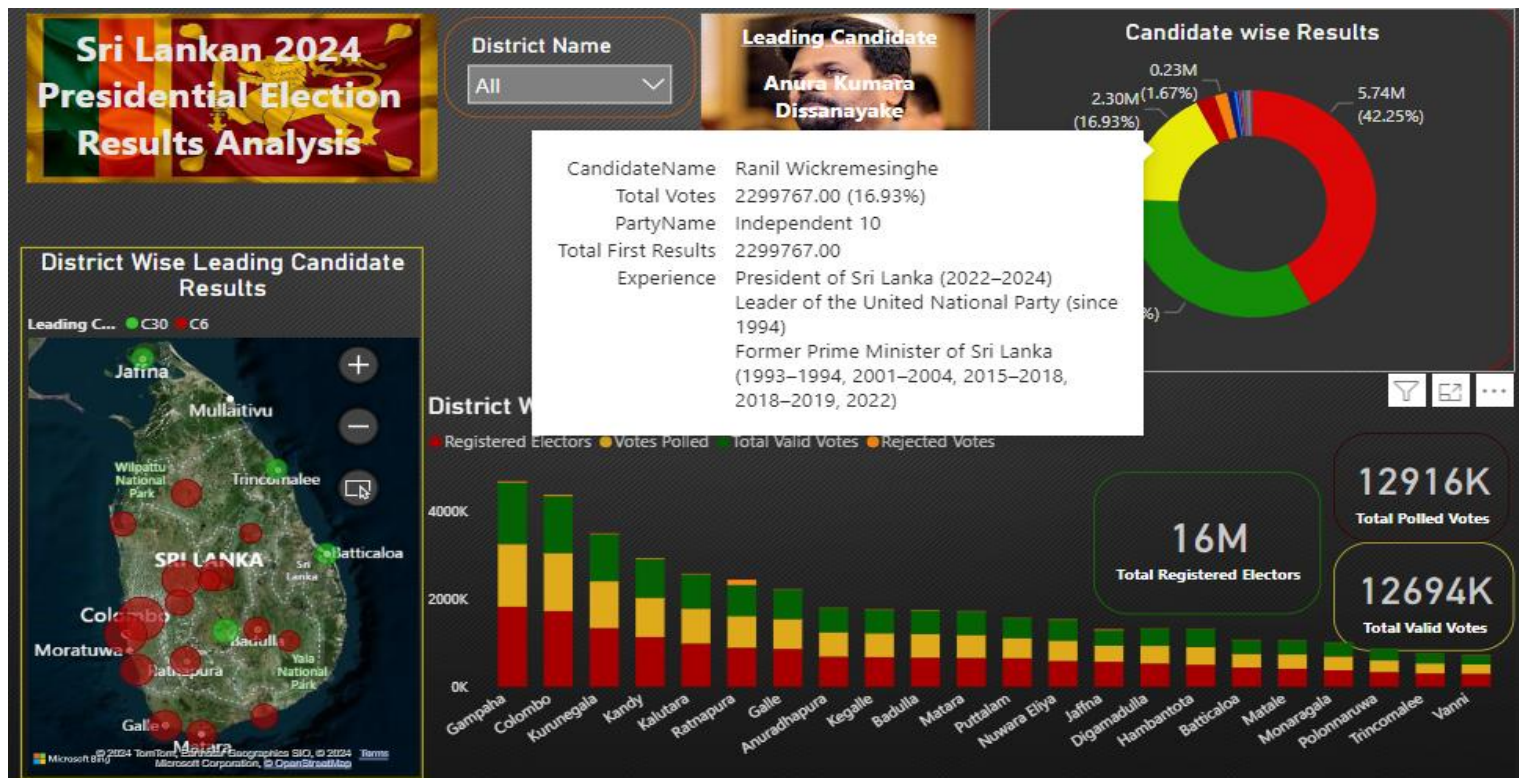
- **Visualization:** KPI Cards
- **Details:** The KPI cards show Total Registered Electors, Total Polled Voters, and Total Valid Votes from PollingStationwise_Results, providing an overall summary of key voter statistics.
- **Purpose:** Offers a quick overview of core metrics, summarizing voter turnout and participation across the election.

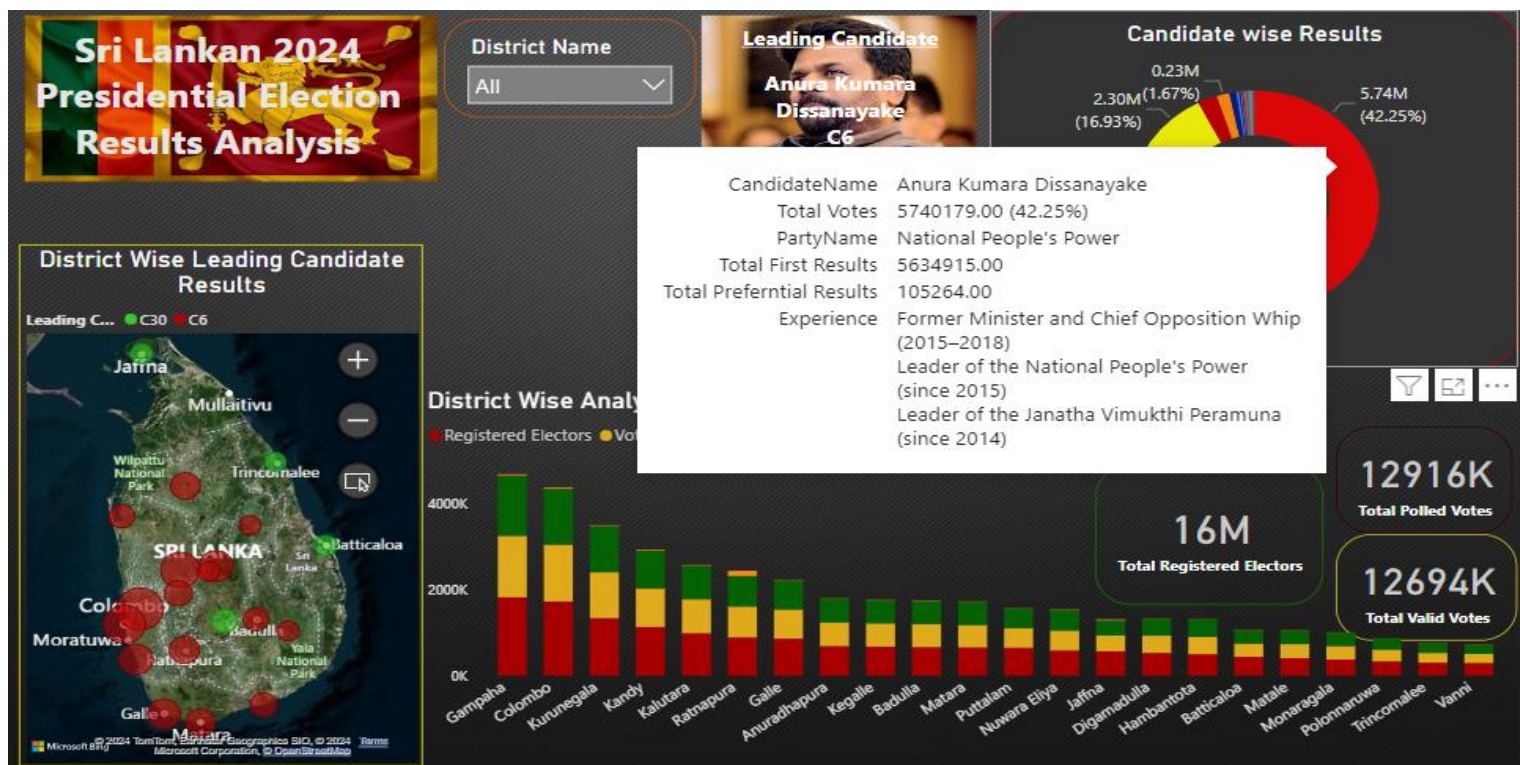
4) District Slicer

- **Visualization:** Slicer for District Name
- **Details:** Allows filtering of all visuals by District Name, enabling focused analysis on specific regions.
- **Purpose:** Enhances flexibility in data exploration by allowing users to drill down into district-specific details across all visualizations.

5) Candidate Vote Share

- Visualization: Pie Chart
- Details: Displays the percentage share of votes each candidate received, pulling data from CandidateWise_Results for a comprehensive overview of candidate popularity.
- Purpose: Provides a quick visual of each candidate's share of the total votes, highlighting the leading candidates in terms of vote percentage.





References for Data

https://elections.gov.lk/si/elections/PRE_2024_Results.html

https://results.elections.gov.lk/pre2024/division_results.php?district=Colombo&pd_division=Postal%20Votes

https://en.wikipedia.org/wiki/2024_Sri_Lankan_presidential_election

https://en.wikipedia.org/wiki/Category:Candidates_in_the_2024_Sri_Lankan_presidential_election