In [2]:
```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

In [3]:
```
data = pd.read_csv(r"EKITI-STATE-ELECTION-RESULT.csv")
```

In [4]:
```
data.head()
```

Out[4]:

	S/N	Ekiti LGA's	APC votes	PDP votes	SDP votes	Total votes	winner
0	1	Ado-Ekiti	23831	7575	15214	46620	APC
1	2	Aiyekire(Gbonyin)	11247	3947	4059	19253	APC
2	3	Efon	4012	6303	339	10654	PDP
3	4	Ekiti East	12099	5230	4982	22311	APC
4	5	Ekiti South-West	9679	4474	4577	18730	APC

In [5]:
```
data.columns
```

Out[5]:
```
Index(['S/N', 'Ekiti LGA's ', 'APC votes', 'PDP votes', 'SDP votes',
       'Total votes', 'winner'],
      dtype='object')
```

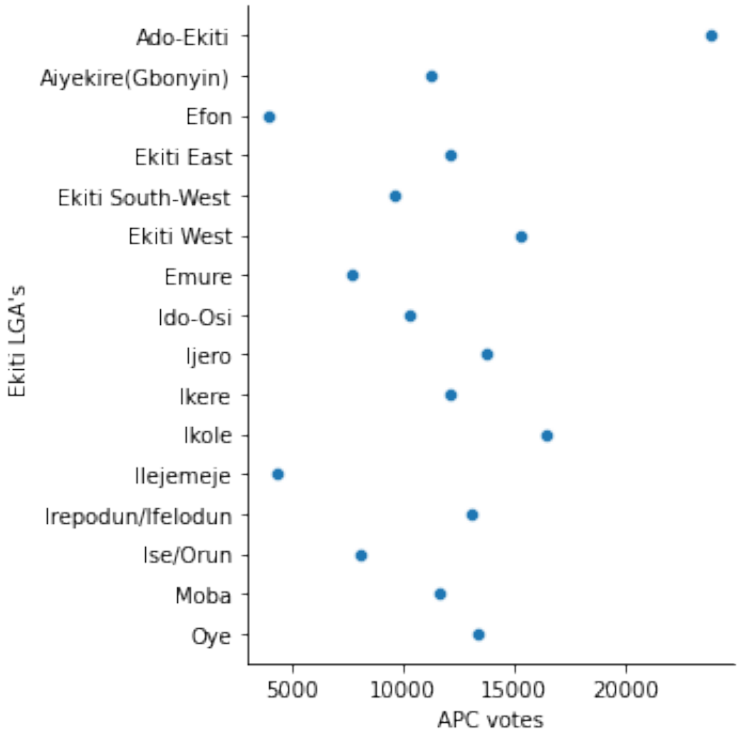
In [6]:
```
data
```

Out[6]:

	S/N	Ekiti LGA's	APC votes	PDP votes	SDP votes	Total votes	winner
0	1	Ado-Ekiti	23831	7575	15214	46620	APC
1	2	Aiyekire(Gbonyin)	11247	3947	4059	19253	APC
2	3	Efon	4012	6303	339	10654	PDP
3	4	Ekiti East	12099	5230	4982	22311	APC
4	5	Ekiti South-West	9679	4474	4577	18730	APC
5	6	Ekiti West	15322	3386	3863	22571	APC
6	7	Emure	7728	2610	3445	13783	APC
7	8	Ido-Osi	10321	2871	9489	22681	APC
8	9	Ijero	13754	4897	5006	23657	APC
9	10	Ikere	12086	3789	1943	17818	APC
10	11	Ikole	16417	6266	5736	28419	APC
11	12	Ilejemeje	4357	1157	2344	7858	APC
12	13	Irepodun/Ifelodun	13125	4712	5010	22847	APC
13	14	Ise/Orun	8074	2588	5909	16571	APC
14	15	Moba	11609	3530	490	15629	APC
15	16	Oye	13396	4122	5391	22909	APC

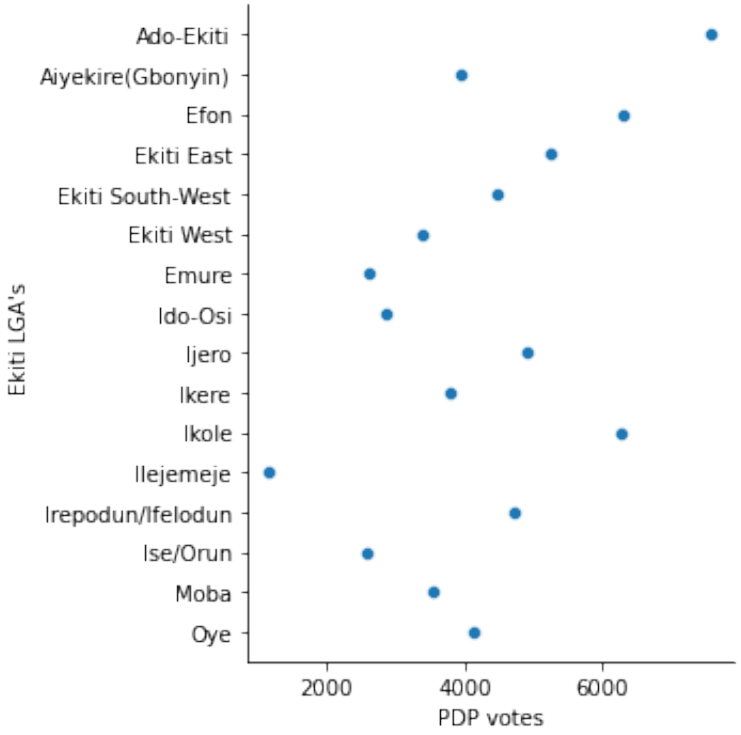
In [15]:
```
sns.relplot(x="APC votes", y="Ekiti LGA's ", data=data)
```

Out[15]:
```
<seaborn.axisgrid.FacetGrid at 0x7ff1af582bb0>
```



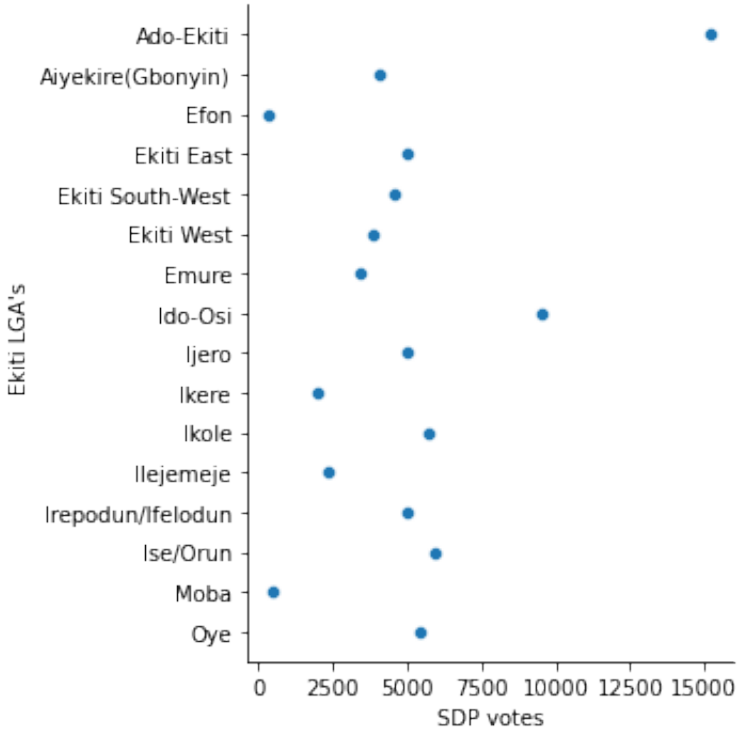
In [17]:
```
sns.relplot(x="PDP votes", y="Ekiti LGA's ", data=data)
```

Out[17]: <seaborn.axisgrid.FacetGrid at 0x7ff1af636220>



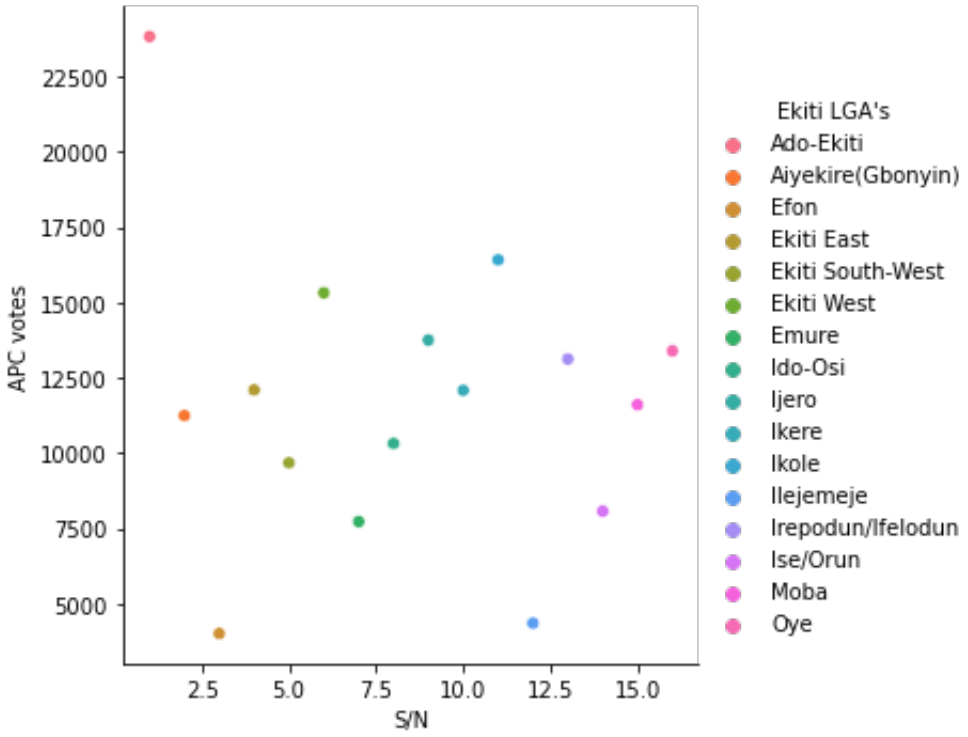
In [16]:
```
sns.relplot(x="SDP votes", y="Ekiti LGA's ", data=data)
```

Out[16]: <seaborn.axisgrid.FacetGrid at 0x7ff1af66ee80>



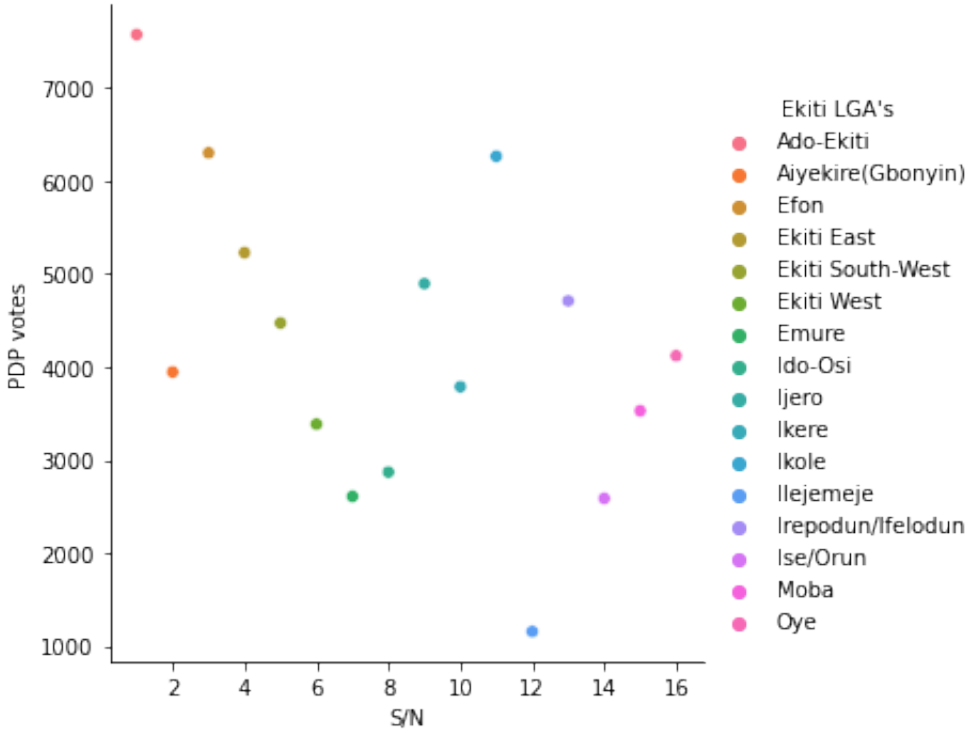
In [21]:
```
sns.relplot(x="S/N", y="APC votes", hue="Ekiti LGA's ", data=data)
```

Out[21]: <seaborn.axisgrid.FacetGrid at 0x7ff1b01f9f40>



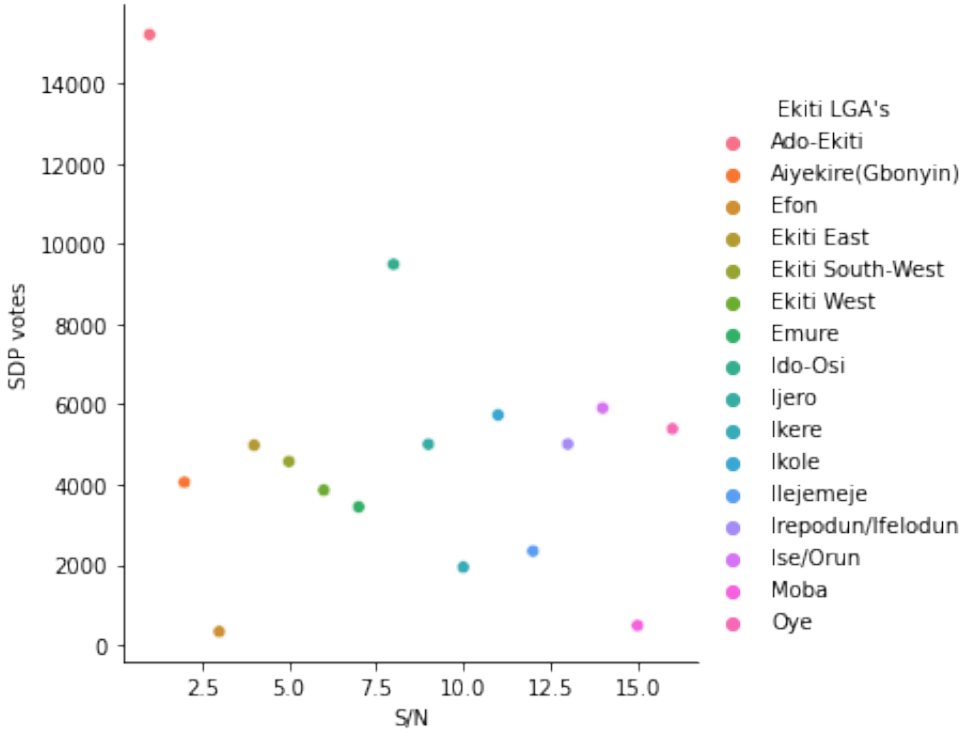
In [22]:
```
sns.relplot(x="S/N", y="PDP votes", hue="Ekiti LGA's ", data=data)
```

Out[22]: <seaborn.axisgrid.FacetGrid at 0x7ff1afbaa310>



In [23]:
```
sns.relplot(x="S/N", y="SDP votes", hue="Ekiti LGA's ", data=data)
```

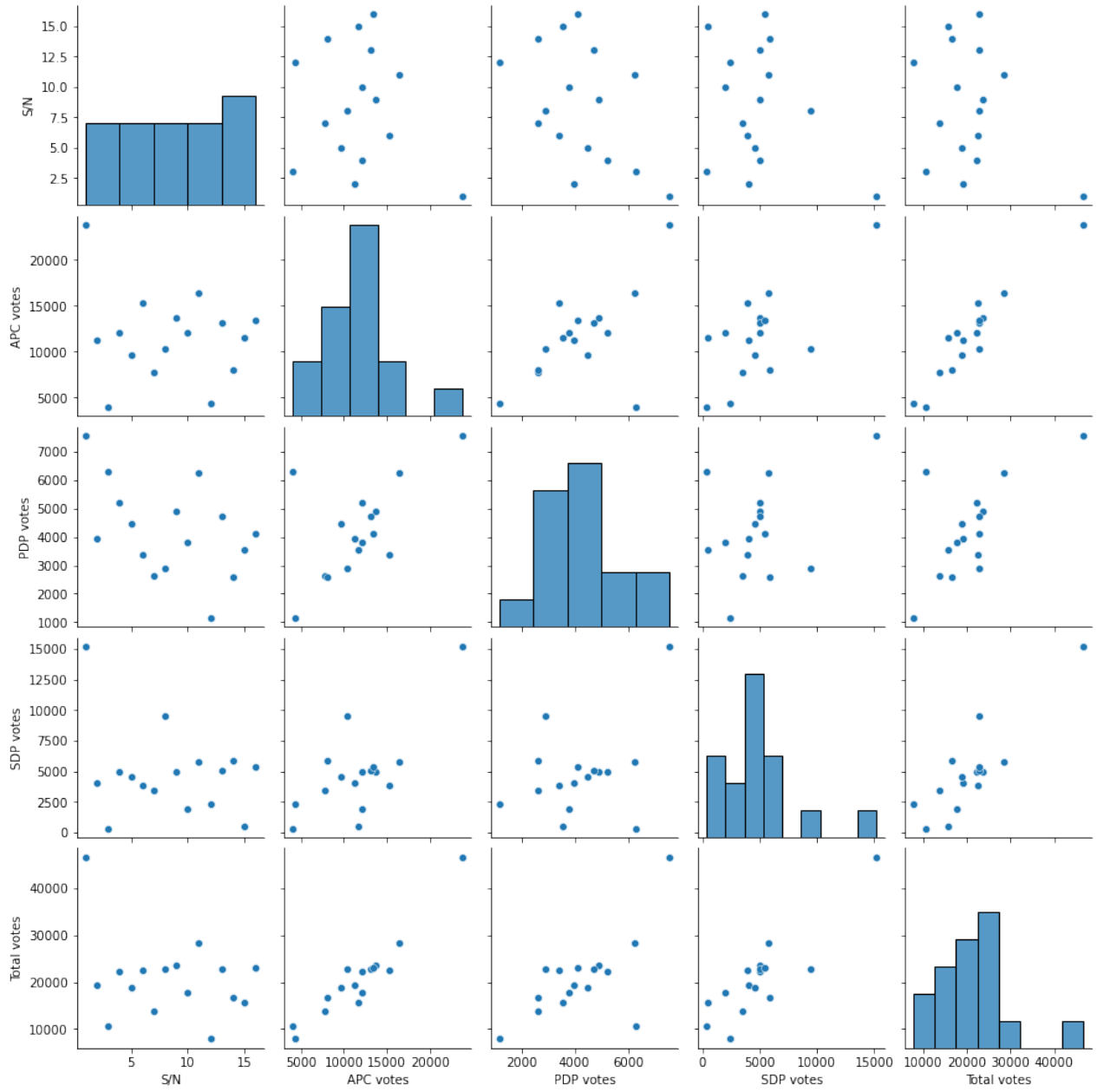
Out[23]: <seaborn.axisgrid.FacetGrid at 0x7ff1b075cf40>



In [24]:

```
sns.pairplot(data)
```

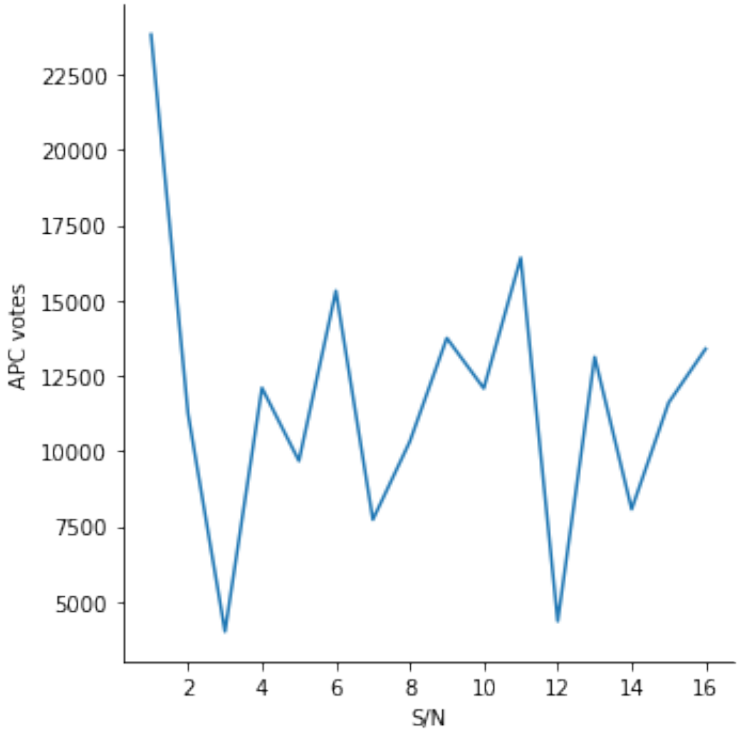
Out[24]: <seaborn.axisgrid.PairGrid at 0x7ff1affc8250>



In [31]:

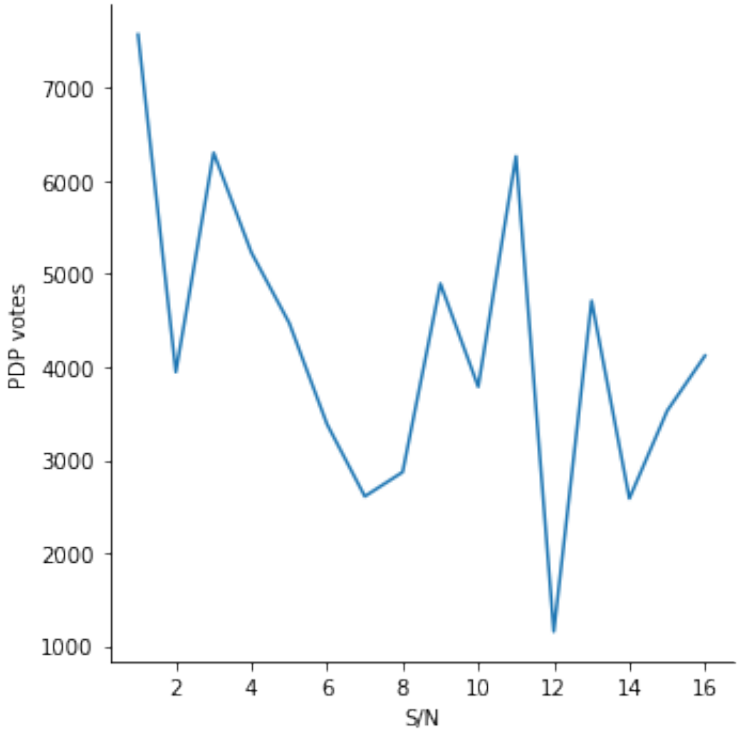
```
sns.relplot(x="S/N", y="APC votes", kind="line", data=data)
```

Out[31]: <seaborn.axisgrid.FacetGrid at 0x7ff1b2b516a0>



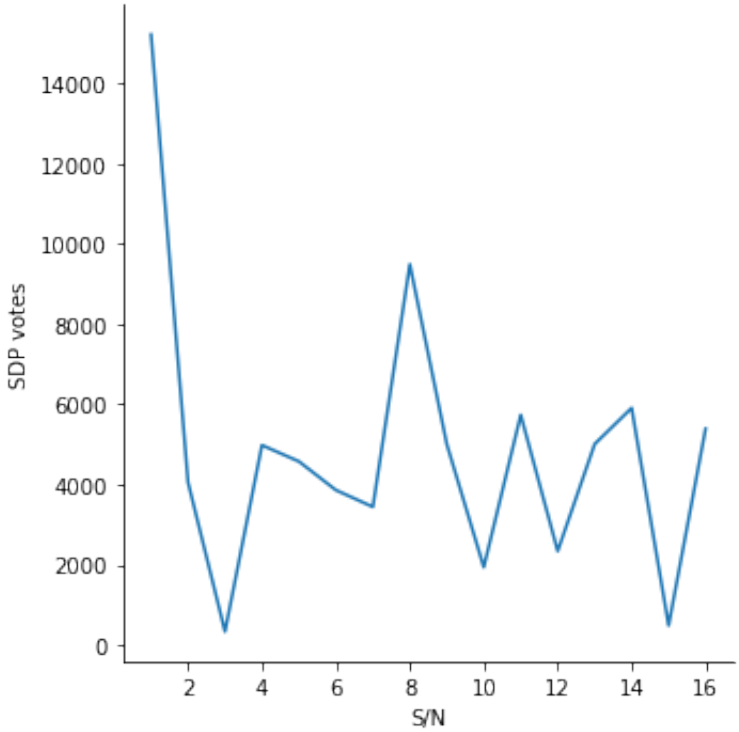
In [32]:
```
sns.relplot(x="S/N", y="PDP votes", kind="line", data=data)
```

Out[32]: <seaborn.axisgrid.FacetGrid at 0x7ff1b17bb970>



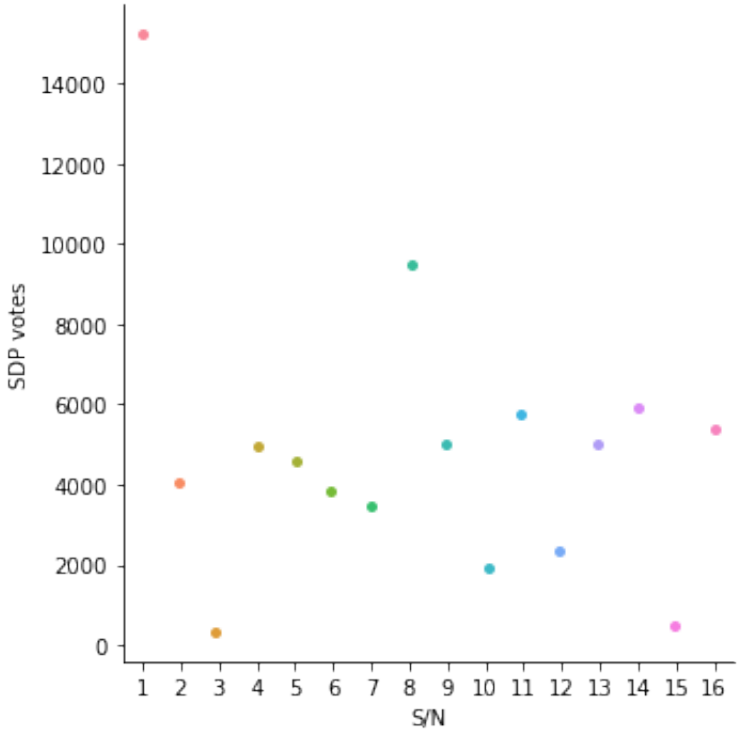
In [35]:
```
sns.relplot(x="S/N", y="SDP votes", kind="line", data=data)
```

Out[35]: <seaborn.axisgrid.FacetGrid at 0x7ff1b37f2d90>



In [38]:
```
sns.catplot(x="S/N", y="SDP votes", data=data)
```

Out[38]: <seaborn.axisgrid.FacetGrid at 0x7ff1b3d9eac0>



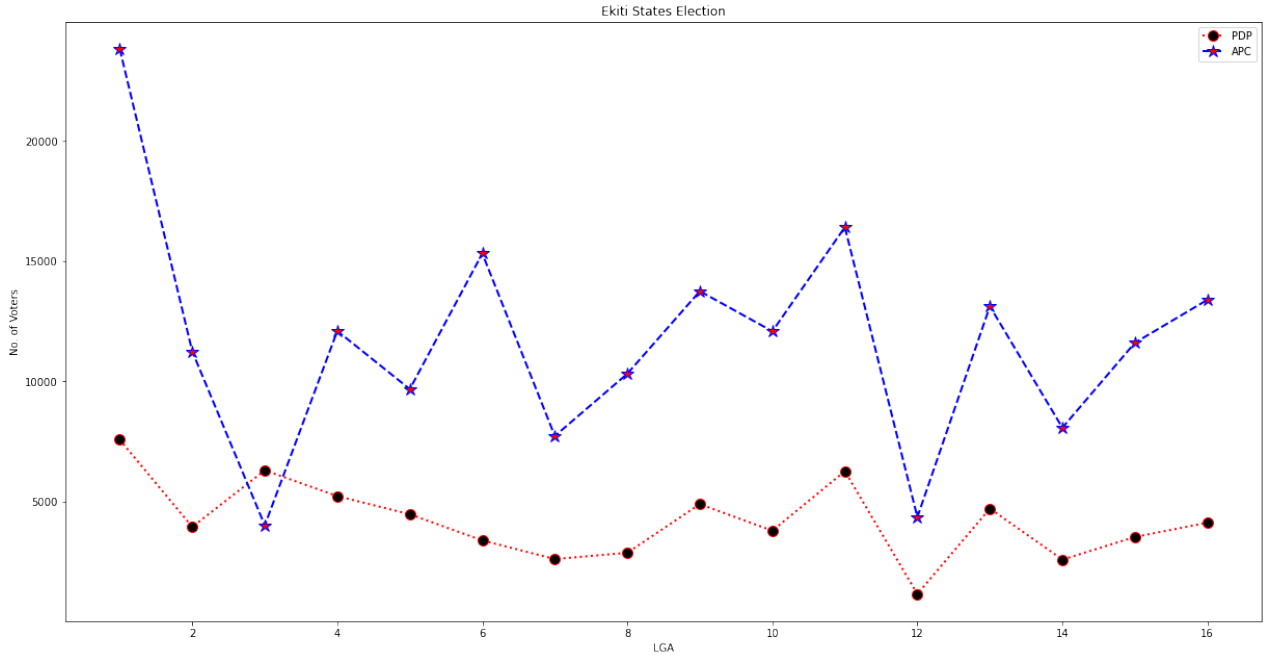
In [8]:
```
data.columns
```

Out[8]:
```
Index(['S/N', 'Ekiti LGA's ', 'APC votes', 'PDP votes', 'SDP votes',
       'Total votes', 'winner'],
      dtype='object')
```

In [19]:
```
pdp = data['PDP votes']
apc = data['APC votes']
sdp = data['SDP votes']
lga16 = np.arange(1,17)
lga = data["Ekiti LGA's "]
```

In [31]:
```
fig = plt.figure(figsize=(20,10))
axes = fig.add_axes([0.1,0.1,0.8,0.8])
axes.set_xlabel('LGA')
axes.set_ylabel('No. of Voters')
axes.set_title('Ekiti States Election')
axes.plot(lga16, pdp, color='red', label='PDP', lw=2, ls='dotted', marker='
          markerfacecolor='black')
axes.plot(lga16, apc, color='blue', label='APC', lw=2, ls='--', marker='*',
          markerfacecolor='red')
axes.legend(loc=0)
```

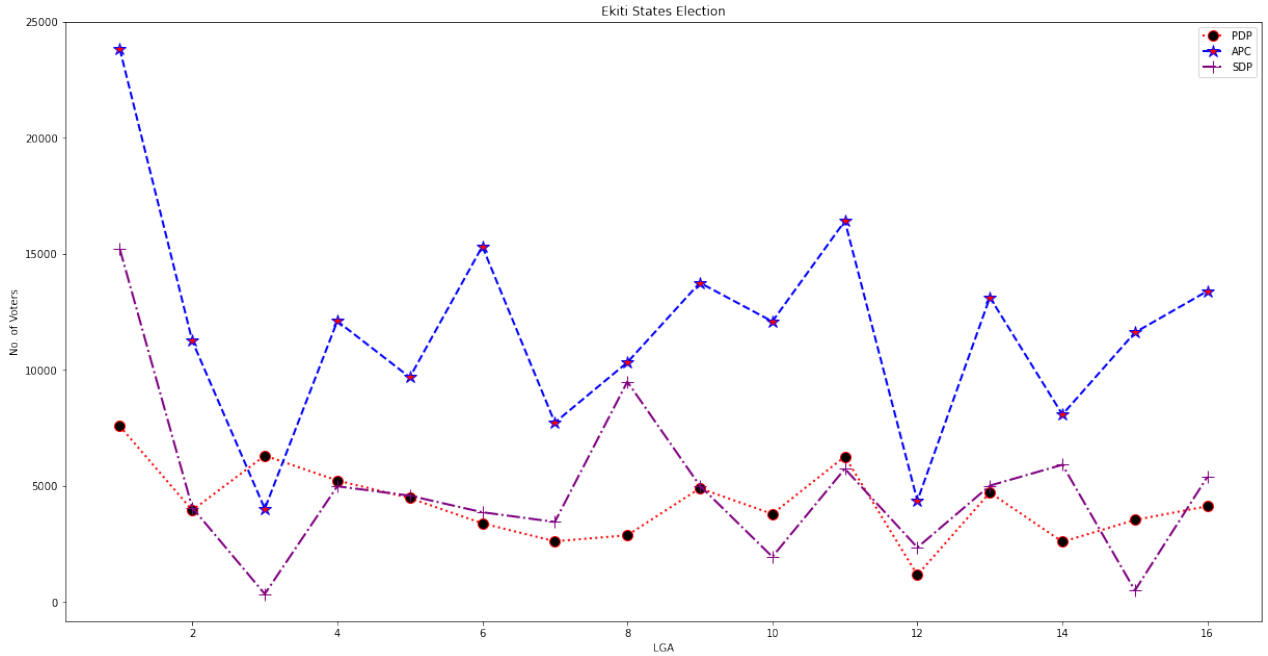
Out[31]:
```
<matplotlib.legend.Legend at 0x7fb3b952bd30>
```



In [32]:
```
fig.savefig('Ekiti_election_sat.jpg')
```

In [33]:
```
fig = plt.figure(figsize=(20,10))
axes = fig.add_axes([0.1,0.1,0.8,0.8])
axes.set_xlabel('LGA')
axes.set_ylabel('No. of Voters')
axes.set_title('Ekiti States Election')
axes.plot(lga16, pdp, color='red', label='PDP', lw=2, ls='dotted', marker='
          markerfacecolor='black')
axes.plot(lga16, apc, color='blue', label='APC', lw=2, ls='--', marker='*',
          markerfacecolor='red')
axes.plot(lga16, sdp, color='purple', label='SDP', lw=2, ls='-.', marker='+
          markerfacecolor='red')
axes.legend(loc=0)
```

Out[33]: <matplotlib.legend.Legend at 0x7fb3b6c89dc0>



In [34]:
```
fig.savefig('Ekiti_election_sat2.jpg')
```

In [ ]: