# Political Contribution VS Election Results

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## The Relationship Between Total Political Contributions and Total Amount of People Vote

#### **Our Datasets**

#### **Primary Dataset**

Federal Election Commission: Campaign Finance Data

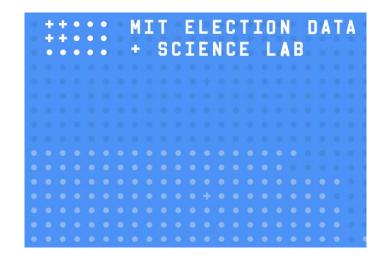
- 1. Candidate Master (7 files)
- 2. Committee Master (7 files)
- Contributions from Committees to Candidates (7 files)



#### Secondary Dataset

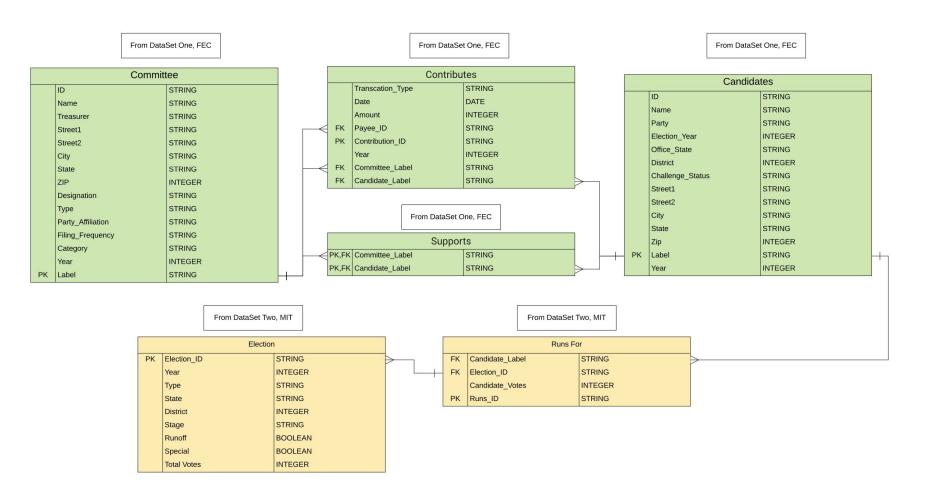
MIT Election Lab: US Election Data

- 1. Senate Elections
- 2. House Elections
- 3. President Elections

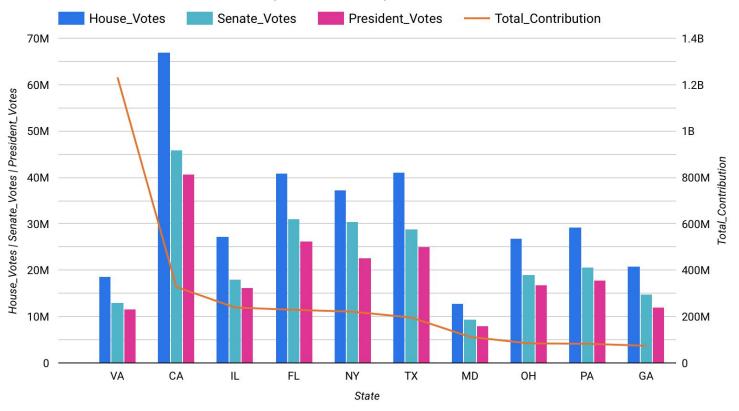


### Transforming and Linking Datasets (SQL + Beam + DAG)

- 1. Create Staging and Modeled Dataset
- Create Primary Key
- Clean Column into Desired Type (Zip, Date, Year, Election Type)
- 4. Transform Name Column in both DataSets and Link them
  - a. Standardize Name Format: Last + First (UpperCase)
  - b. Get Rid of Middle Name
  - c. Get Rid of Suffix (Jr, Sr)
- 5. Link the Name with Candidate ID (PK, FK).

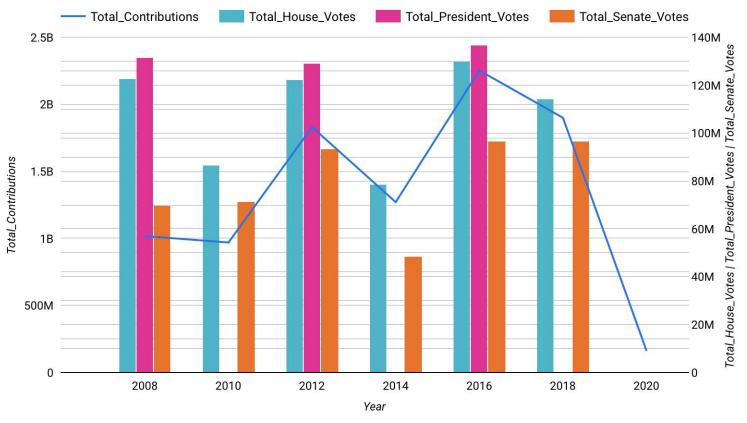


#### Total Contribution VS Total Amount of People Votes in Top 10 States



Total Amount of Contribution VS Total Amount of People Votes in House/Senate/Presidential Elections, **Group By State** 

#### Total Contribution VS Total Amount of People Votes in Different Years



Total Amount of Contribution VS Total Amount of People Votes in House/Senate/Presidential Elections, **Group By Year** 

#### **Future Work**

- 1. Include the total eligible voters/population in each state to find out the percentage of people vote in each state.
- 2. Include the overall economics data to explore its effects on the political contribution.
- Investigate the effect of party affiliation to the political contribution amount.
- Include individual Donors to have a comprehensive view of political campaign finance