

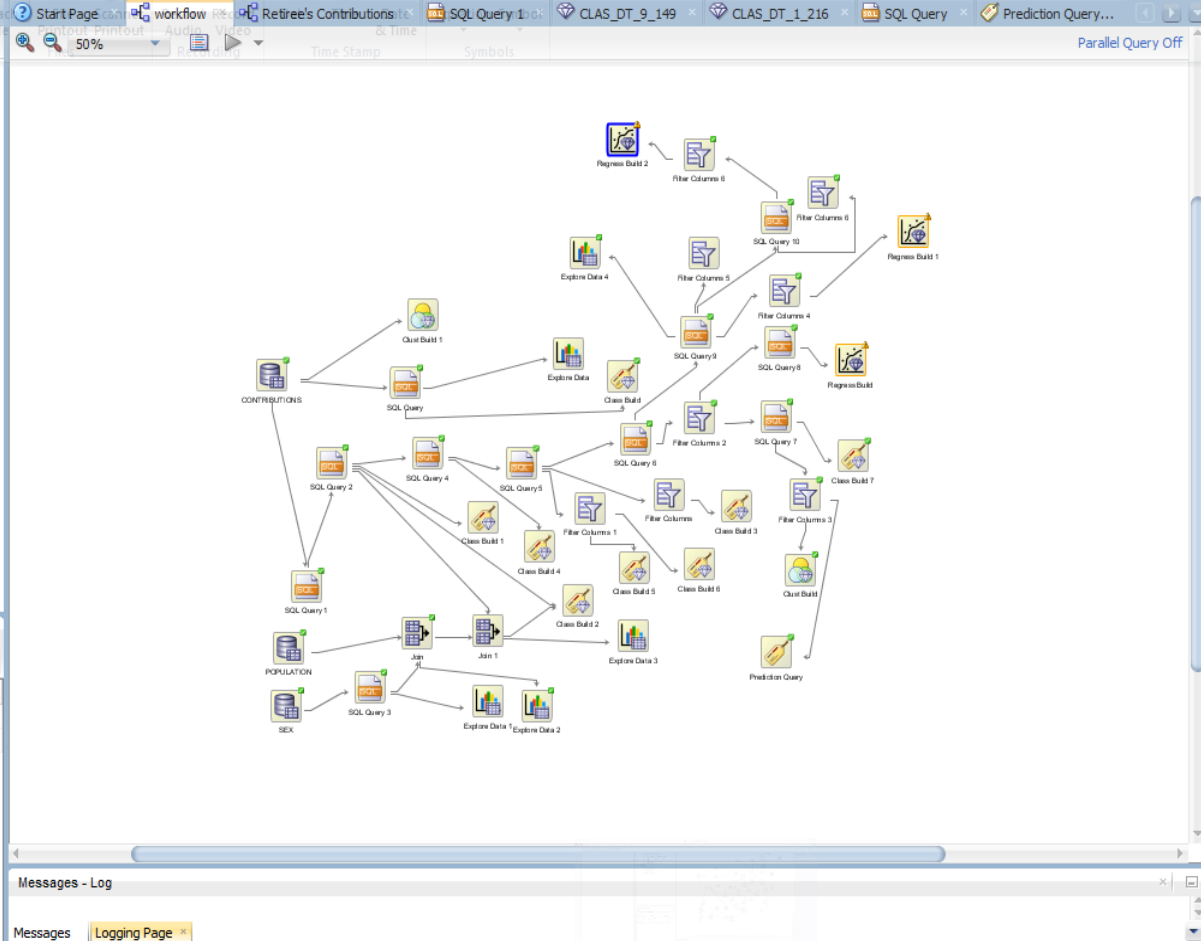
Campaign Contribution (2012) Data Mining

Jin, Hans, Felix

Data Source

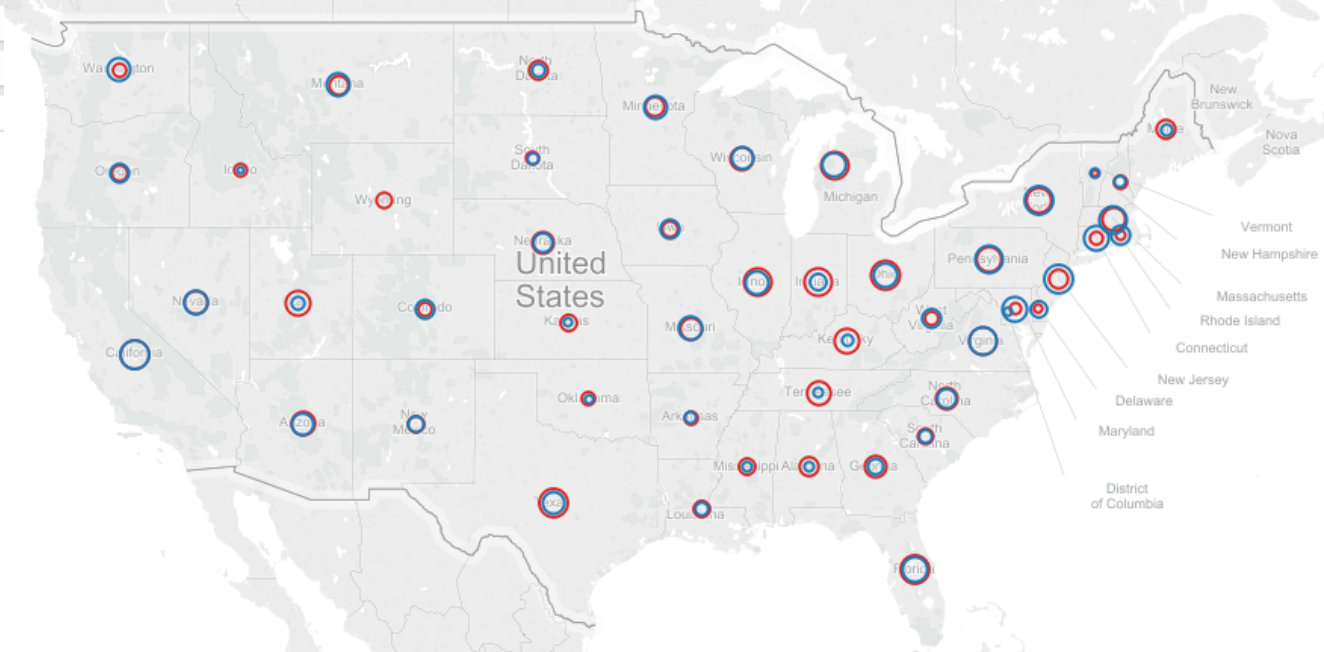
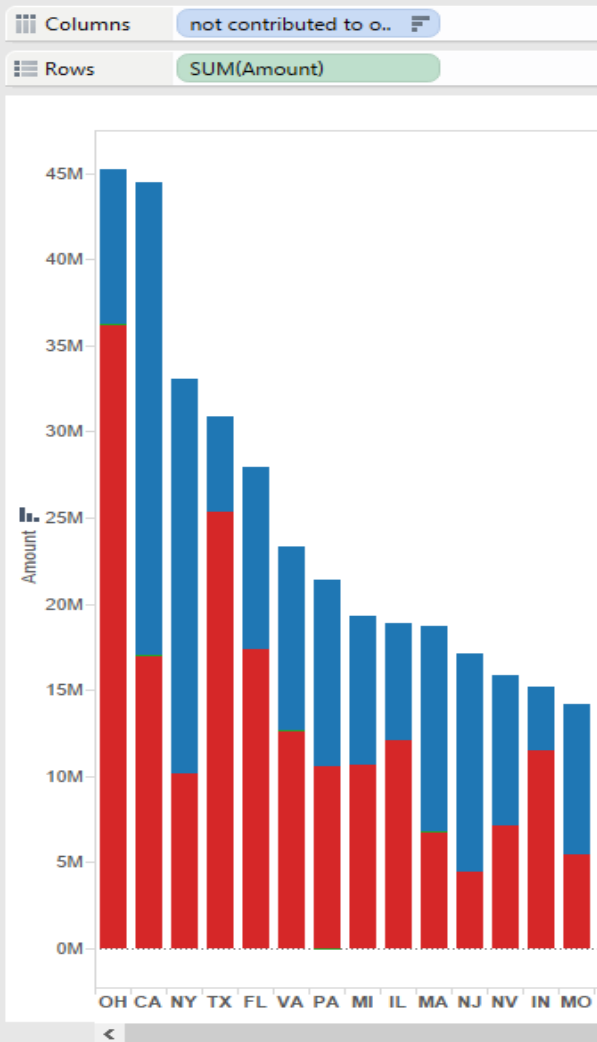
- <https://app.enigma.io/table/us.gov.fec.summary.2012?row=0&col=31&page=1>

enigma		Search...	Q
FEDERAL CAMPAIGN CONTRIBUTIONS			
2012			
Contributions made by individuals and companies to U.S. federal election campaigns (2012 election cycle).			
Full description			
		ENIGMA UNITED STATES U.S. FEDERAL GOVERNMENT FEDERAL ELECTION COMMISSION FEDERAL CAMPAIGN CONTRIBUTIONS 2012	
dd filter	2,221,555 rows		Showing 42 of 43 fields

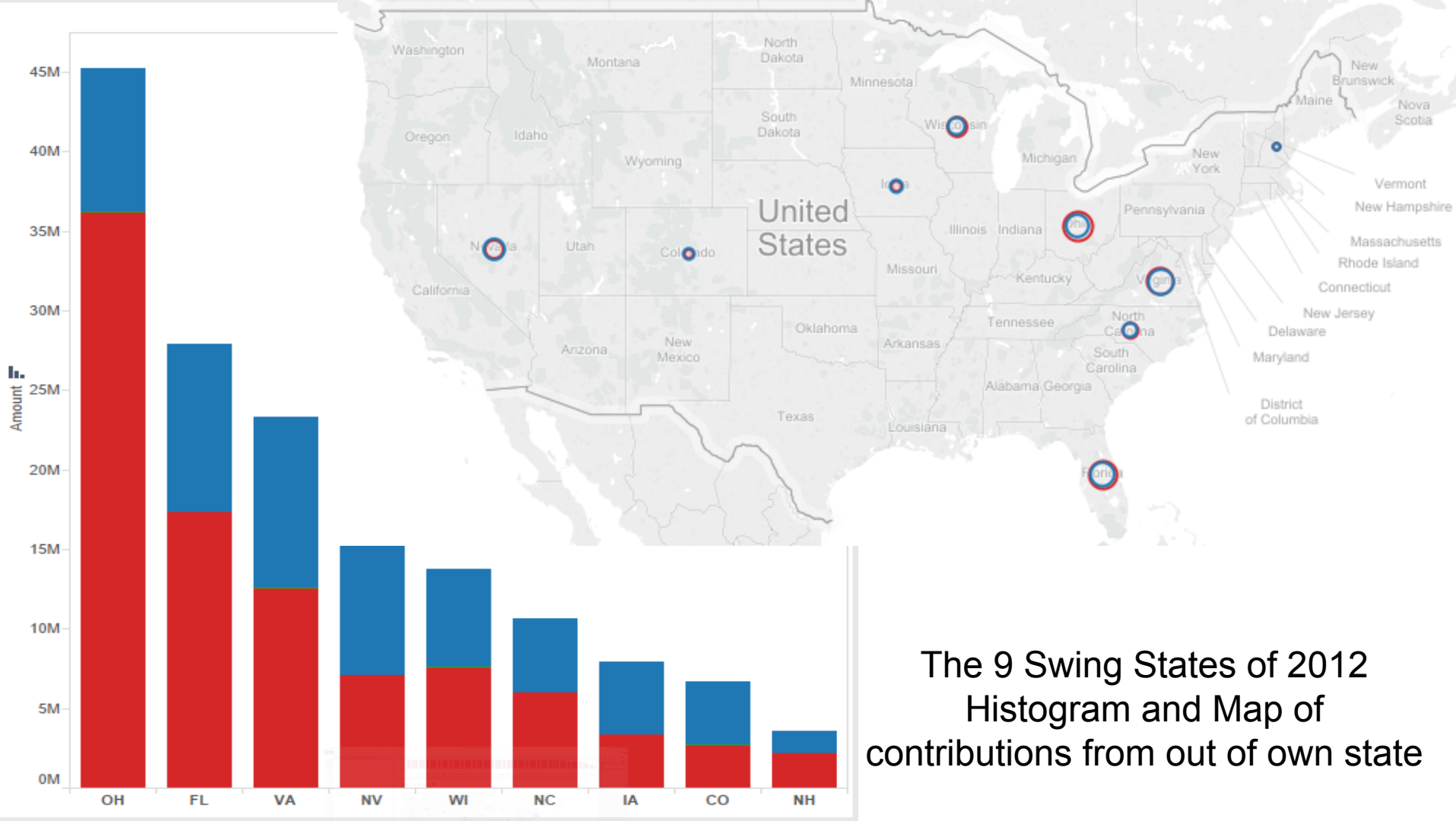


The screenshot displays the Orange3 software interface. The top section is the 'Workflow Editor', which includes a search bar, a 'Workflow Editor' dropdown, and a 'Data' section. Below this is the 'Transforms' section, containing icons for 'Aggregate', 'Filter Columns', 'Filter Columns', and 'Filter Rows'. The 'Text' section is also visible. The 'Models' section shows icons for 'Anomaly Detection', 'Association', 'Classification', 'Clustering', 'Feature Extraction', and 'Model'. The 'Predictive Queries' section is at the bottom of the workflow editor. The bottom section of the image shows the 'Regress Build 2 - Properties' dialog box. It has a search bar and a 'Models' section. The 'Models' section contains a table with columns 'Name', 'Output', and 'Build'.

Name	Output	Build
REGR_GLM_3_149	→	Not built
REGR_SVM_3_149	→	Not built



Histogram and map showing amount total contributed to other states and not to own state.




Oracle SQL Dev. Workflow

Connection Name: jhk924 on PDBORCL

Username: CS378_jhk924

Password:

☒ Save Password  Connection Color

Oracle

Connection Type: Basic Role: default

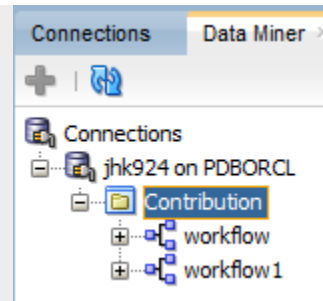
Hostname: 128.83.138.158

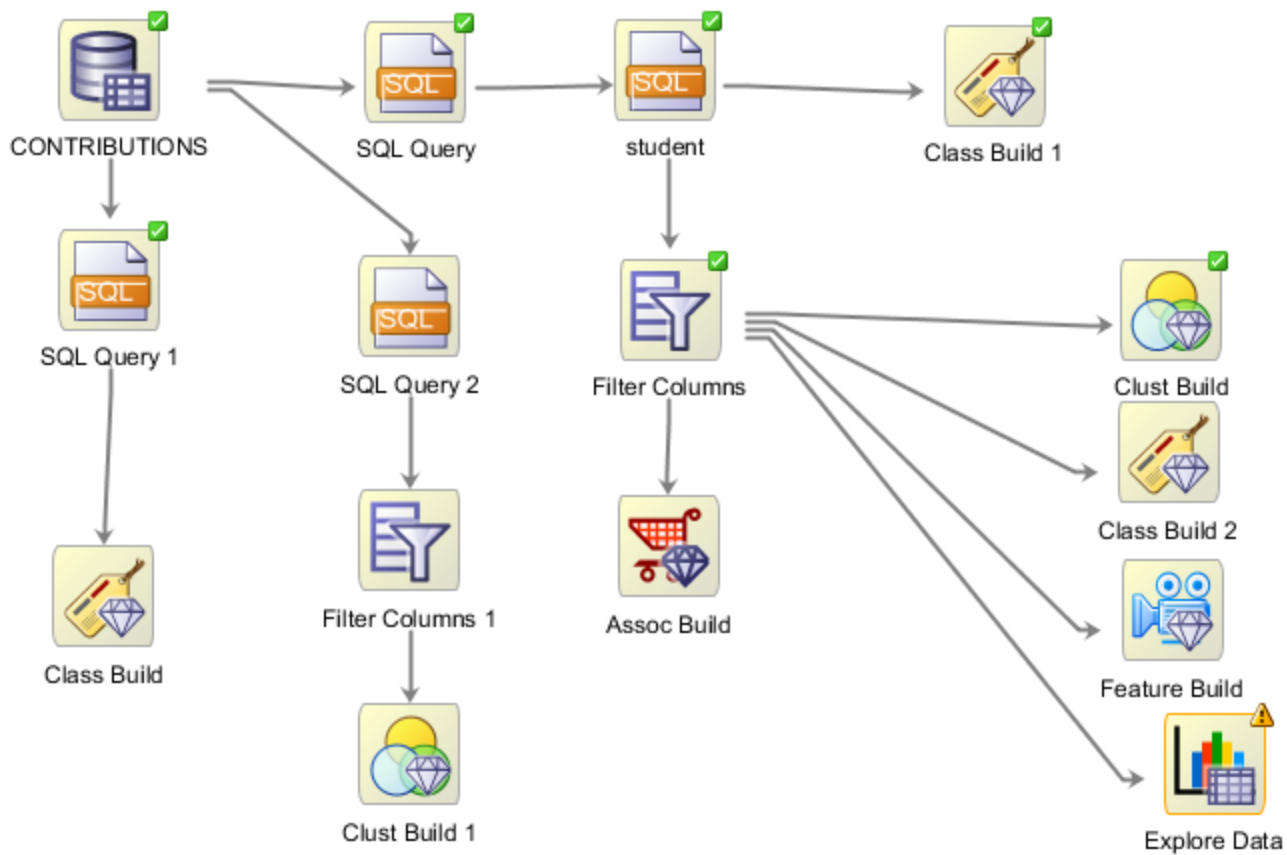
Port: 1521

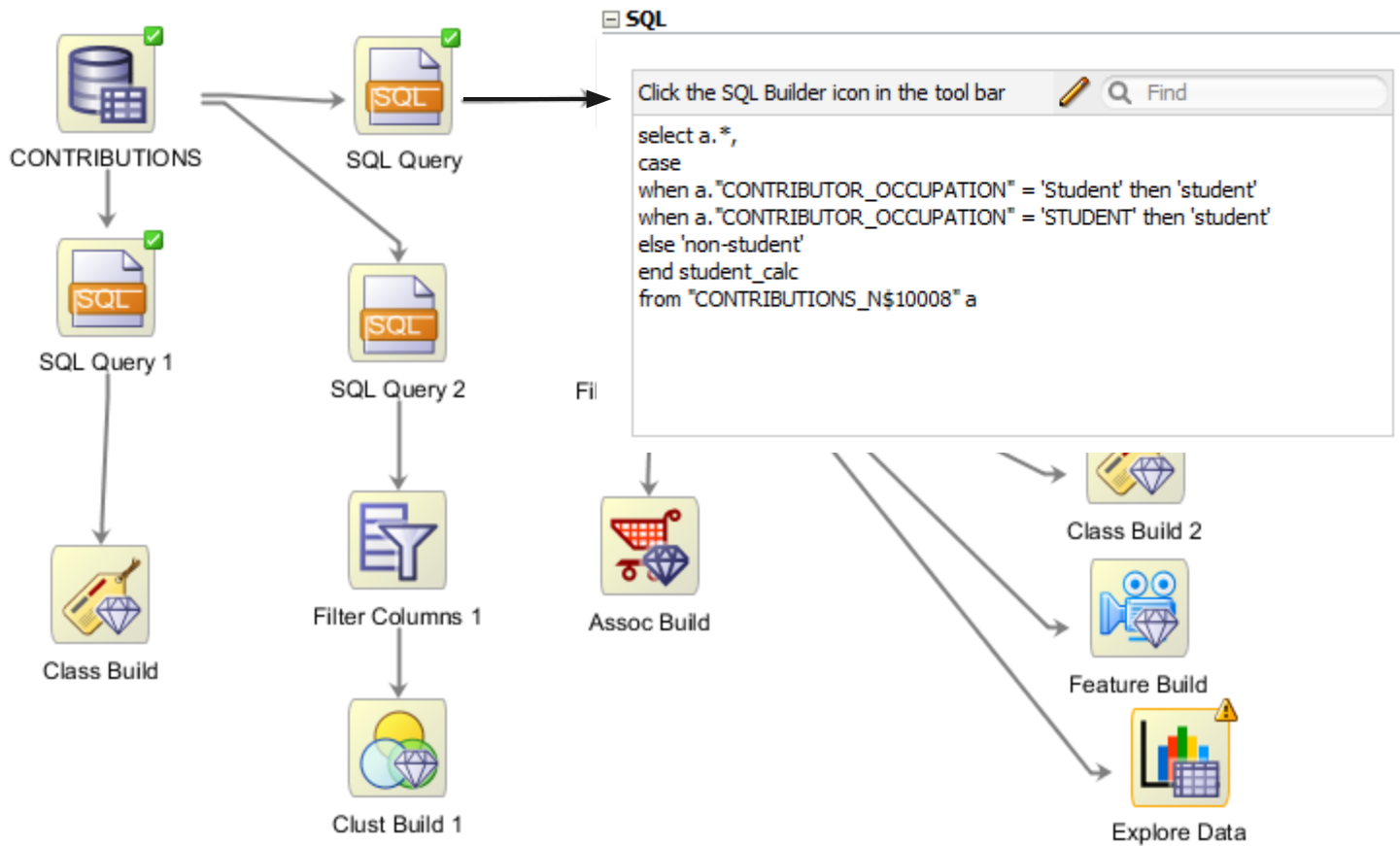
☐ SID

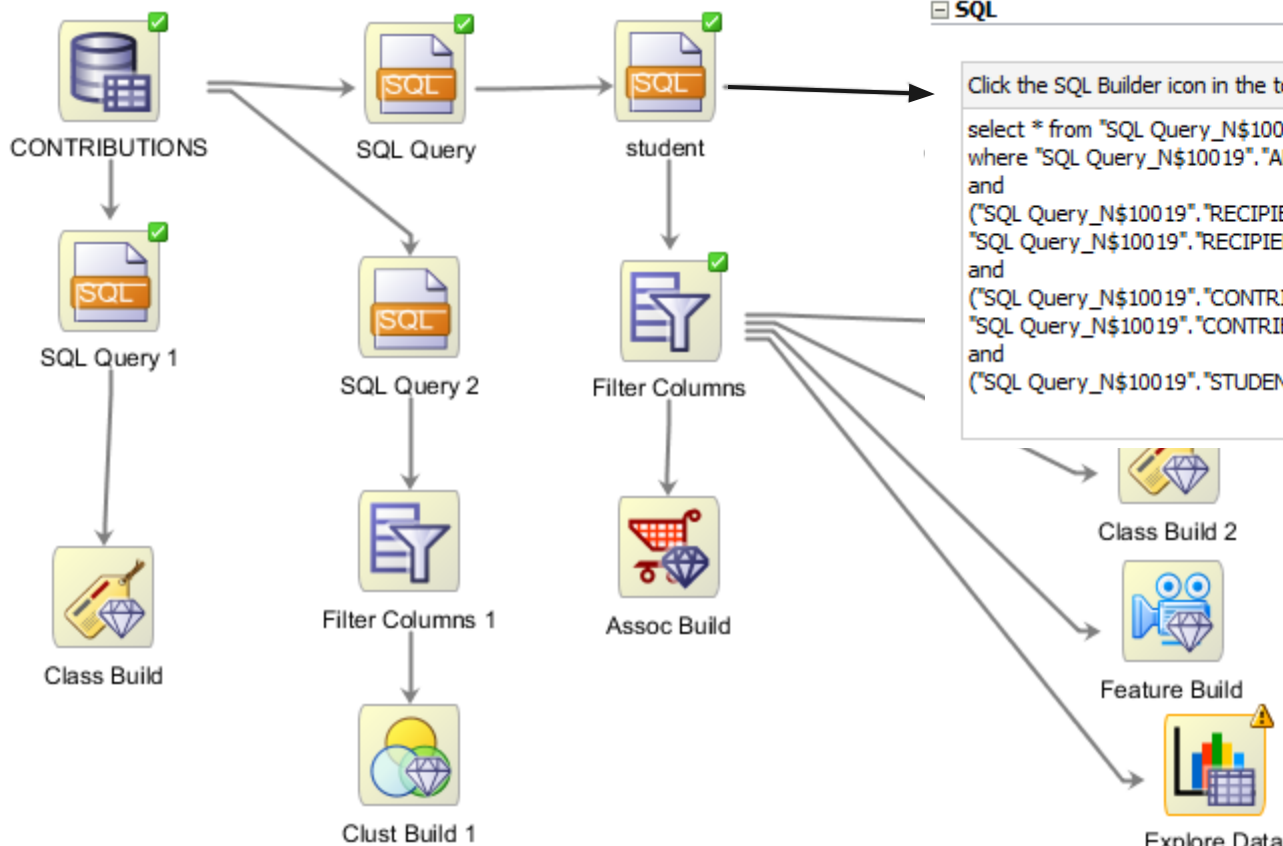
☒ Service name: PDBORCL

☐ OS Authentication ☐ Kerberos Authentication ☐ Proxy Connection







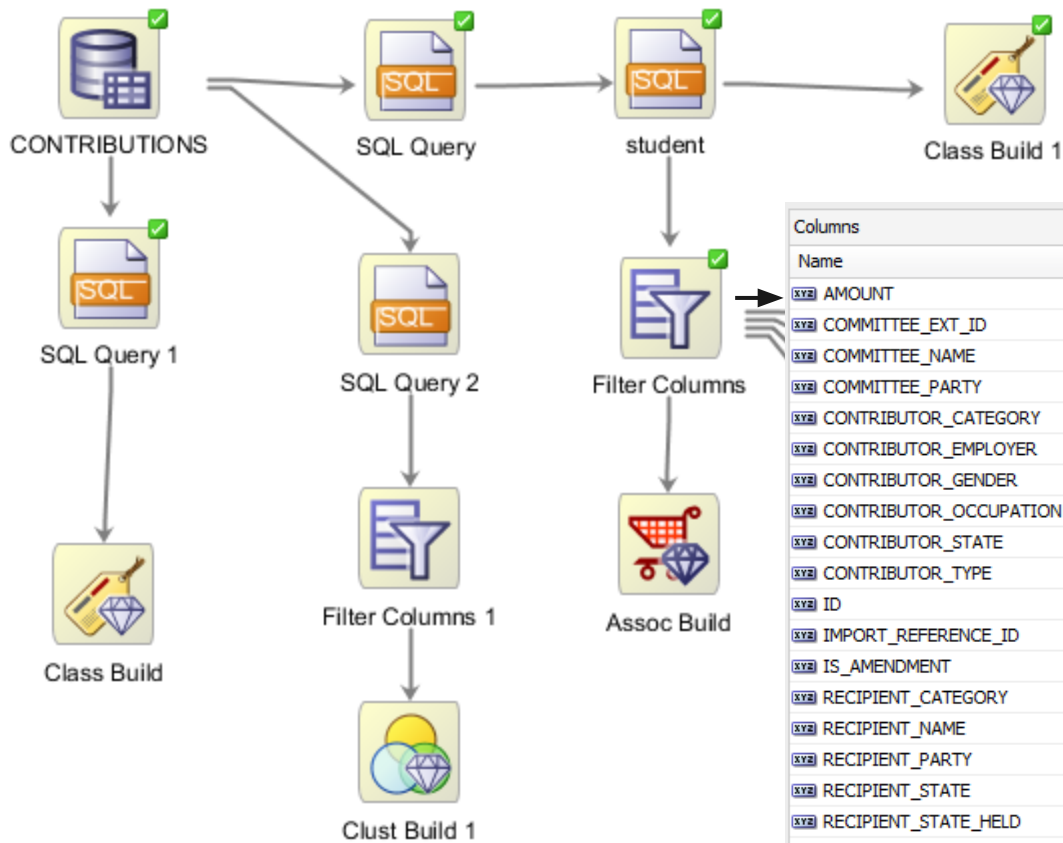


SQL

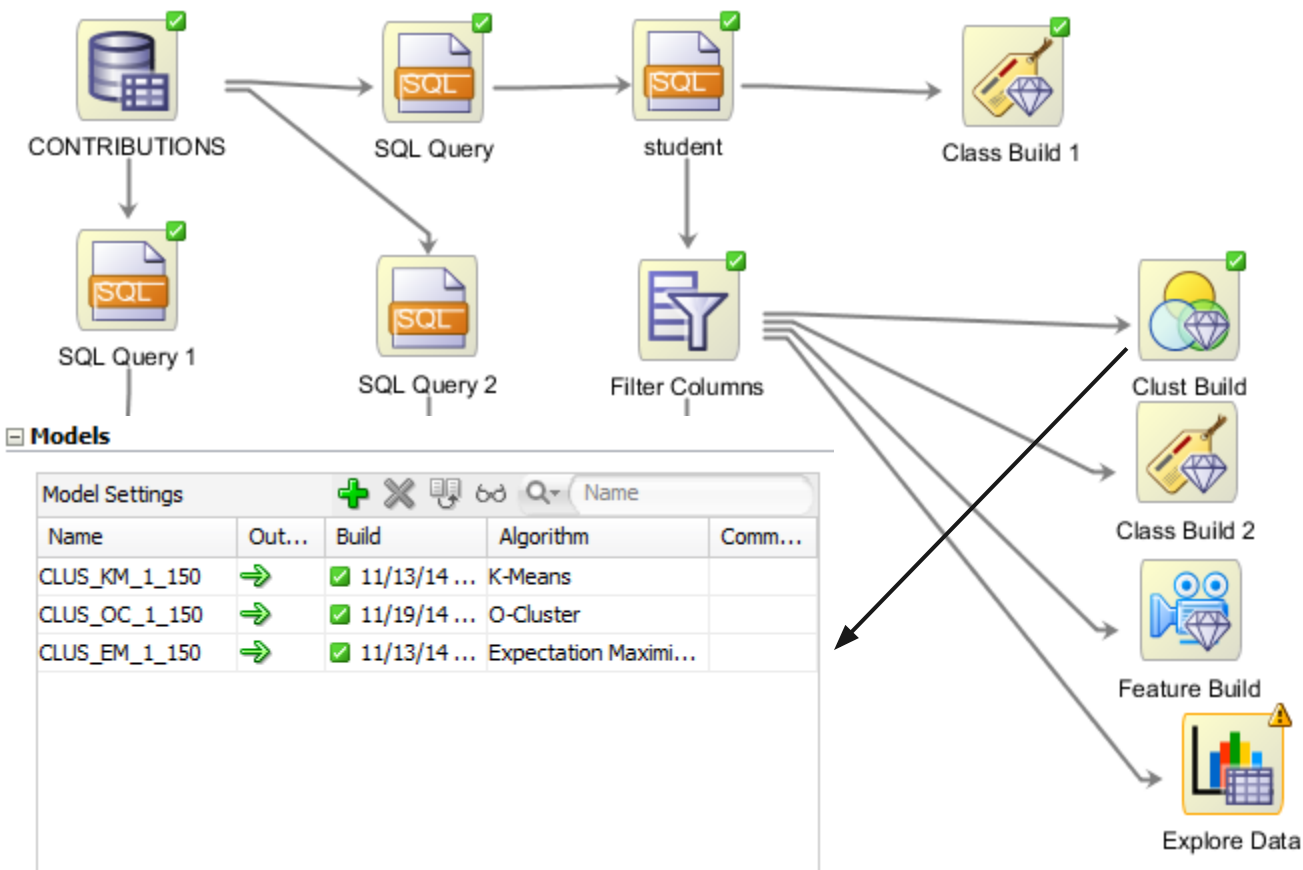
Click the SQL Builder icon in the tool bar

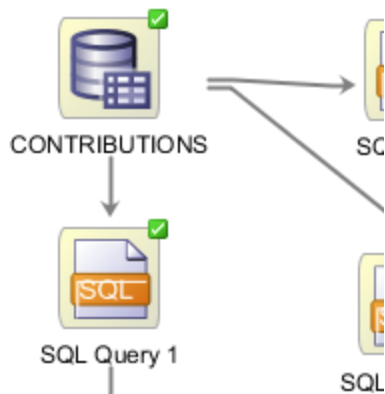


```
select * from "SQL Query_N$10019"
where "SQL Query_N$10019"."AMOUNT" > 0
and
("SQL Query_N$10019"."RECIPIENT_PARTY" = 'D' or
"SQL Query_N$10019"."RECIPIENT_PARTY" = 'R')
and
("SQL Query_N$10019"."CONTRIBUTOR_GENDER" = 'M' or
"SQL Query_N$10019"."CONTRIBUTOR_GENDER" = 'F')
and
("SQL Query_N$10019"."STUDENT_CALC" = 'student')
```



Columns				Name
Name	Type	Output	Hints	
AMOUNT	VARCHAR2	→		
COMMITTEE_EXT_ID	VARCHAR2	→✖	⚠ Attribute passed filters	
COMMITTEE_NAME	VARCHAR2	→✖	⚠ Attribute passed filters	
COMMITTEE_PARTY	VARCHAR2	→✖	⚠ Attribute passed filters	
CONTRIBUTOR_CATEGORY	VARCHAR2	→		
CONTRIBUTOR_EMPLOYER	VARCHAR2	→✖	⚠ Attribute passed filters	
CONTRIBUTOR_GENDER	VARCHAR2	→		
CONTRIBUTOR_OCCUPATION	VARCHAR2	→		
CONTRIBUTOR_STATE	VARCHAR2	→		
CONTRIBUTOR_TYPE	VARCHAR2	→✖	⚠ Exceed % constant	
ID	VARCHAR2	→	⚠ Exceed % unique	
IMPORT_REFERENCE_ID	VARCHAR2	→✖	⚠ Exceed % constant	
IS_AMENDMENT	VARCHAR2	→✖	⚠ Exceed % constant	
RECIPIENT_CATEGORY	VARCHAR2	→✖	⚠ Attribute passed filters	
RECIPIENT_NAME	VARCHAR2	→		
RECIPIENT_PARTY	VARCHAR2	→		
RECIPIENT_STATE	VARCHAR2	→		
RECIPIENT_STATE_HELD	VARCHAR2	→✖	⚠ Attribute passed filters	
RECIPIENT_TYPE	VARCHAR2	→✖	⚠ Attribute passed filters	
SEAT	VARCHAR2	→✖	⚠ Attribute passed filters	
SEAT_HELD	VARCHAR2	→✖	⚠ Attribute passed filters	
SEAT_RESULT	VARCHAR2	→✖	⚠ Exceed % constant	
SEAT_STATUS	VARCHAR2	→✖	⚠ Attribute passed filters	
STUDENT_CALC	VARCHAR2	→	⚠ Exceed % constant	
TRANSACTION TYPE	VARCHAR2	→✖	⚠ Attribute passed filters	





Models

Model Settings				
Name	Out...	Build	Algorithm	Comm...
CLUS_KM_1_150	➡	✓ 11/13/14 ...	K-Means	
CLUS_OC_1_150	➡	✓ 11/19/14 ...	O-Cluster	
CLUS_EM_1_150	➡	✓ 11/13/14 ...	Expectation Maxim...	

Cluster 2

Count: 1615

Percent: 50.58%

CONTRIBUTOR_STATE: CA

CONTRIBUTOR_CATEGORY: Y1000

RECIPIENT_STATE: FL

AMOUNT: 250.00

CONTRIBUTOR_GENDER: M

Split: CONTRIBUTOR_STATE

Cluster 4

Count: 1030

Percent: 32.26%

CONTRIBUTOR_STATE: CA

CONTRIBUTOR_CATEGORY: Y1000

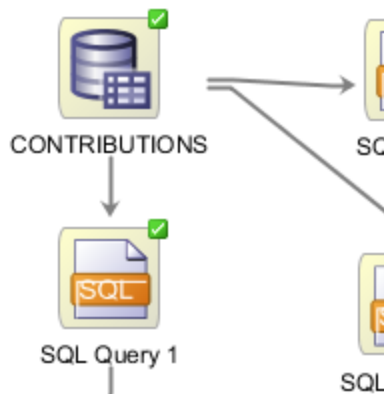
RECIPIENT_STATE: FL

AMOUNT: 250.00

CONTRIBUTOR_GENDER: M

Split: AMOUNT

Explore Data



Models

Model Settings

Name	Out...	Build	Algorithm	Comm...
CLUS_KM_1_150	→	✓ 11/13/14 ...	K-Means	
CLUS_OC_1_150	→	✓ 11/19/14 ...	O-Cluster	
CLUS_EM_1_150	→	✓ 11/13/14 ...	Expectation Maxim...	

Centroid	Rule	
Name	▼ Importance	Mode
CONTRIBUTOR_STATE	<div></div> 0.6154	CA
CONTRIBUTOR_CATEGORY	<div></div> 0.4211	Y1000
RECIPIENT_STATE	<div></div> 0.3448	FL
AMOUNT	<div></div> 0.2917	250.00
CONTRIBUTOR_GENDER	0.0000	M
CONTRIBUTOR_OCCUPATION	0.0000	STUDENT
RECIPIENT_PARTY	0.0000	D

Cluster 2

Count: 1615

Percent: 50.58%

CONTRIBUTOR_STATE: CA

CONTRIBUTOR_CATEGORY: Y1000

RECIPIENT_STATE: FL

AMOUNT: 250.00

CONTRIBUTOR_GENDER: M

Split: CONTRIBUTOR_STATE

Cluster 4

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CONTRIBUTOR_STATE: CA

CONTRIBUTOR_CATEGORY: Y1000

RECIPIENT_STATE: FL

AMOUNT: 250.00

CONTRIBUTOR_GENDER: M

Split: AMOUNT

Tableau

Further analysis

Student_Contribution

Connected to Text File

Directory

C:\Users\jin\AppData\Local\Temp\Tableau...

Files

Enter file name

- enigma-us.gov.f...4415f27e4f3.csv
- enigma-us.gov...39dcd4a75f.csv
- enigma-us.gov...67259b939f.csv

student

Copy

Go to Worksheet

Id #	Import Reference Id #	Cycle		Transaction Namespace Abc	Transaction Id		Transaction Typ Abc
		#	student		Abc	student	
234158593		759	2,012	urn:fec:transaction	indiv:2012:20731201...		15
234190412		759	2,012	urn:fec:transaction	indiv:2012:40106201...		15
234395220		759	2,012	urn:fec:transaction	indiv:2012:40227201...		15
233912550		759	2,012	urn:fec:transaction	indiv:2012:10131201...		15
233912476		759	2,012	urn:fec:transaction	indiv:2012:10131201...		15

Data

- retired contribution
- ☒ Student_Contribution
- whole contribution

Dimensions

- # Id
- # Import Reference Id
- T|F Is Amendment
- =Abc not contributed to own st...
- Abc Organization Ext Id
- Abc Organization Name
- Abc Parent Organization Ext Id
- Abc Parent Organization Name
- Abc Recipient Category
- Abc Recipient Ext Id
- Abc Recipient Name
- Abc Recipient Party
- 🌐 Recipient State
- 🌐 Recipient State Held
- Abc Recipient Type

Measures

- # Amount
- # Cycle
- # Serialid
- 🌐 Latitude (generated)
- 🌐 Longitude (generated)
- =# Number of Records
- # Measure Values

Pages

Columns

Contributor State

Recipient State

Rows

SUM(Amount)

Filters

Contributor State: CA

Recipient State

Marks

Automatic



Color



Size



Label



Detail



Tooltip



Recipient Party

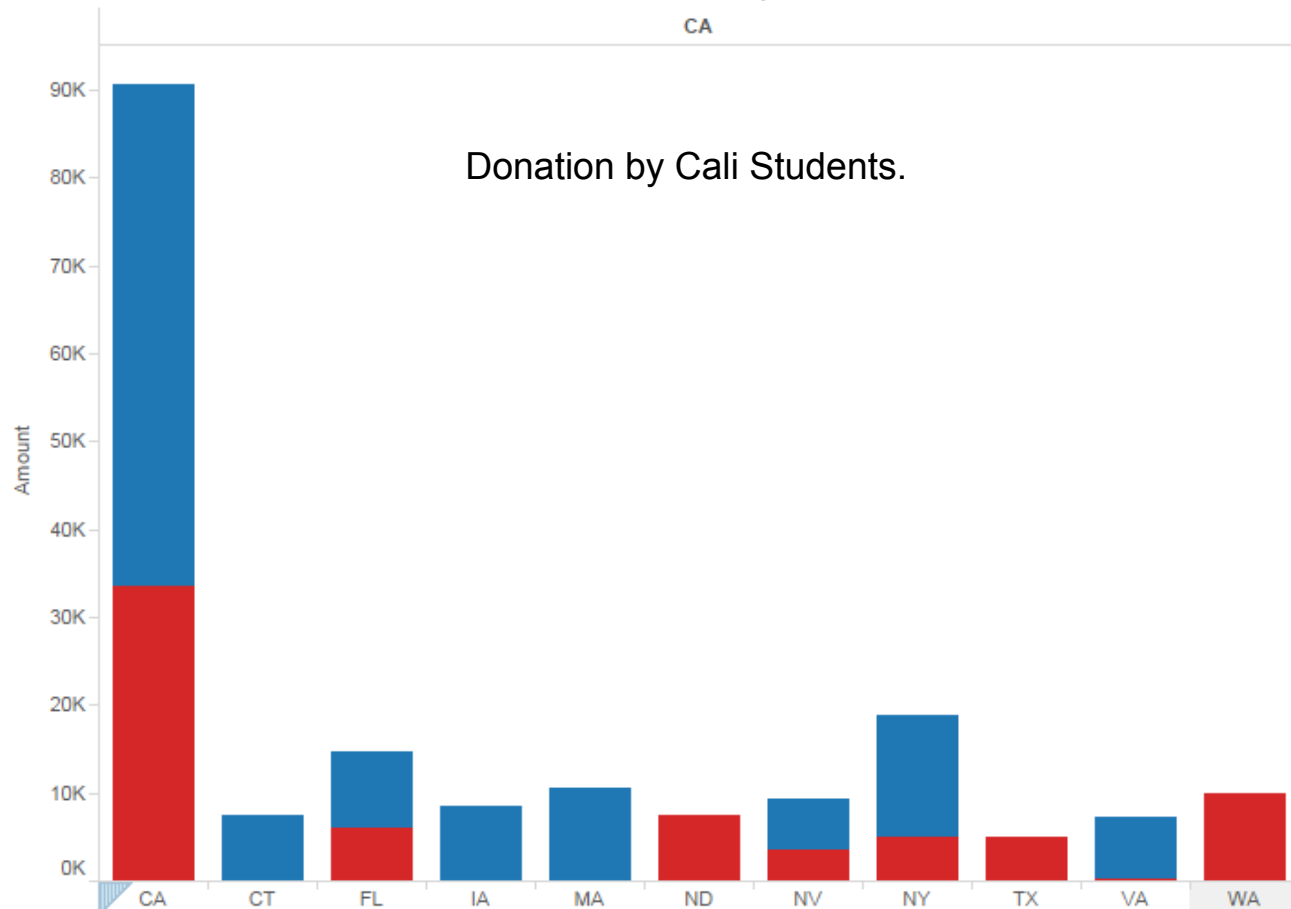
Recipient Party

D

R

Contributor State / Recipient State

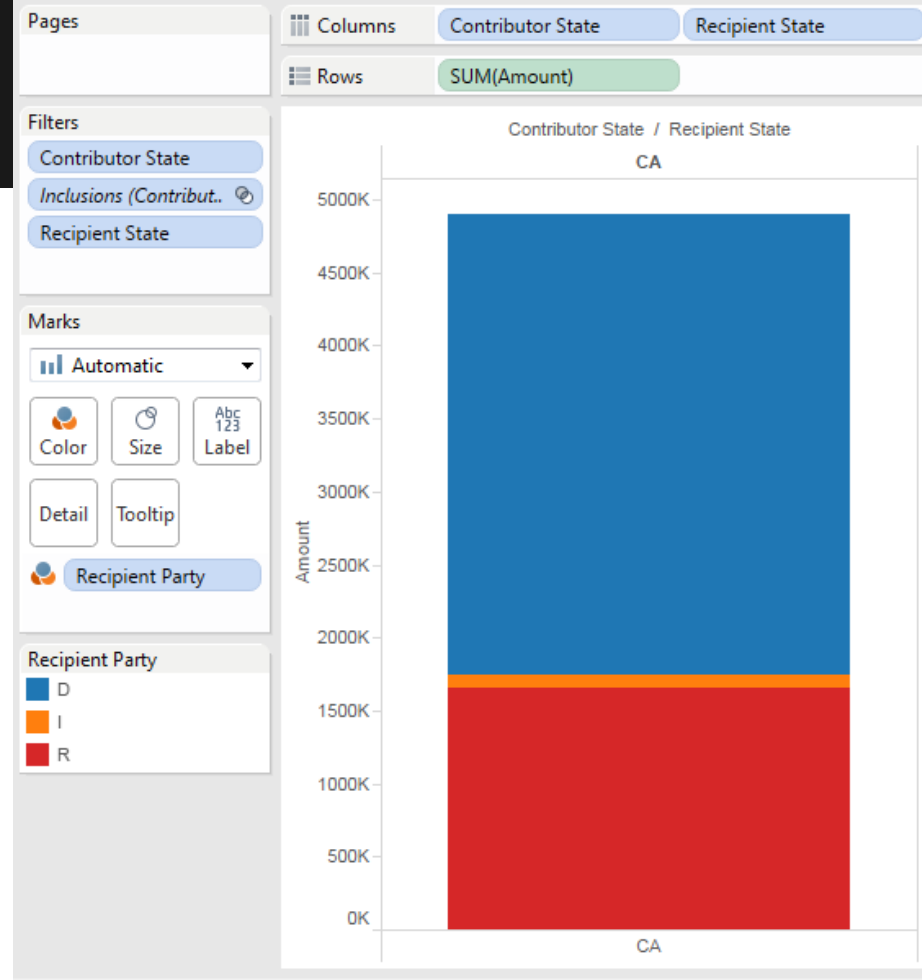
CA



Is donating to other state common?

No.


contains("retired",
Contributor.Occupation)
(only targeted Cali)
did not contribute ANY
money out of Cali.



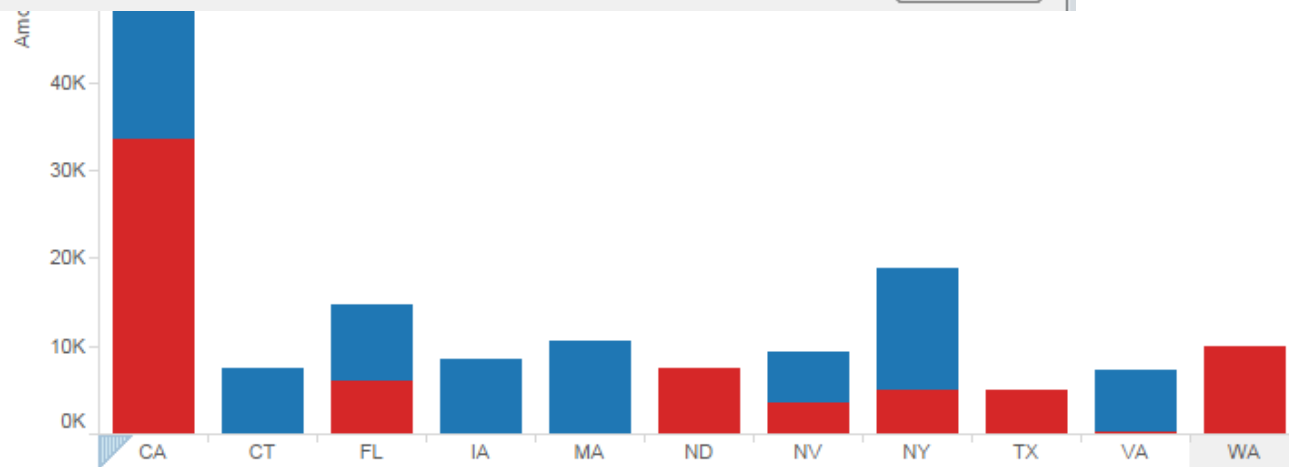
Name: not contributed to own state

Formula:

```
IF ([Recipient State] = [Contributor State]) THEN "ignore"  
ELSE [Recipient State]  
END
```

 The calculation is valid.

Recipient Party

 D
 R

Calculated Field [not contributed to own state]

Pages

Columns

not contributed to o..

Rows

SUM(Amount)

Filters

not contributed to o..

Marks

Automatic

Color

Size

Abc
123
Label

Detail

Tooltip



Recipient Party

Recipient Party

D

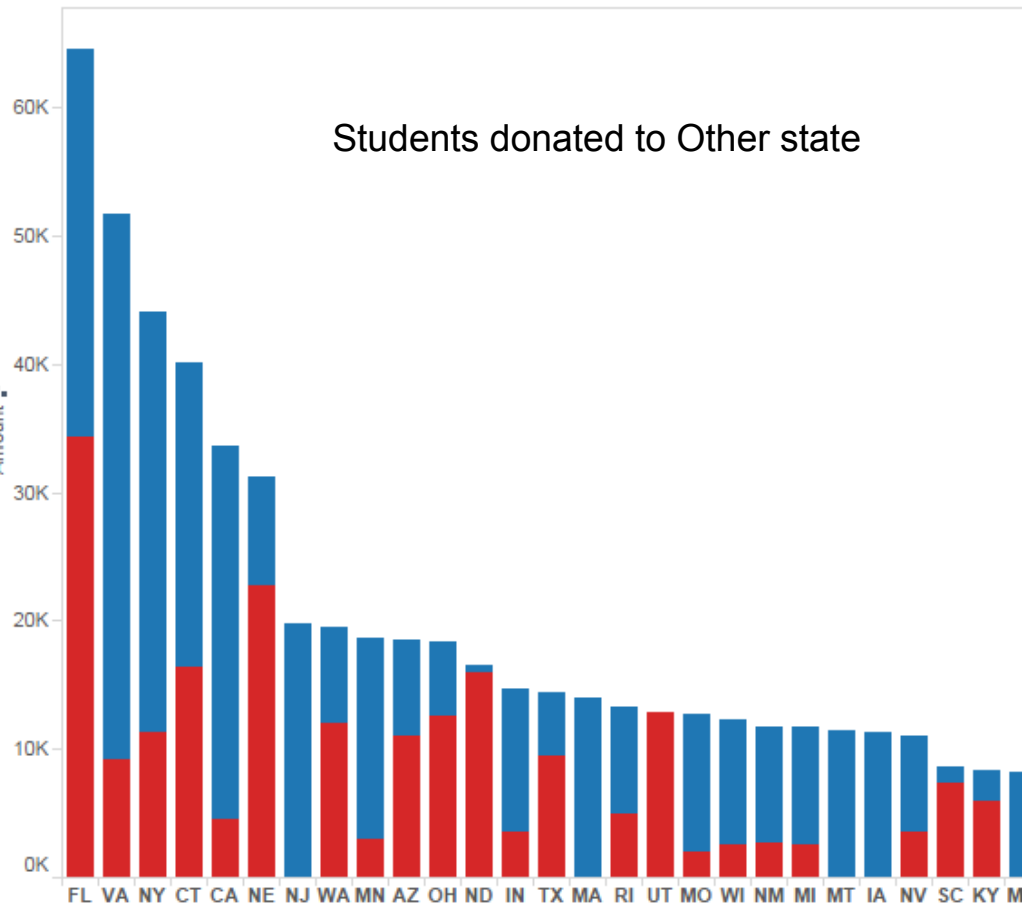
I

R

not contributed to own state

Students donated to Other state

Amount



Name: not contributed to own state

Formula:

```
IF ([Recipient State] = [Contributor State])  
ELSE [Recipient State]  
END
```

✓ The calculation is valid.

Calculated Field [not contributed to own state]

Pages

Columns not contributed to o..

Rows SUM(Amount)

Name: not contributed to own state

Formula:

```
IF ([Recipient State] = [Contributor State])
ELSE [Recipient State]
END
```

Filters

not contributed to o..

Marks

Automatic

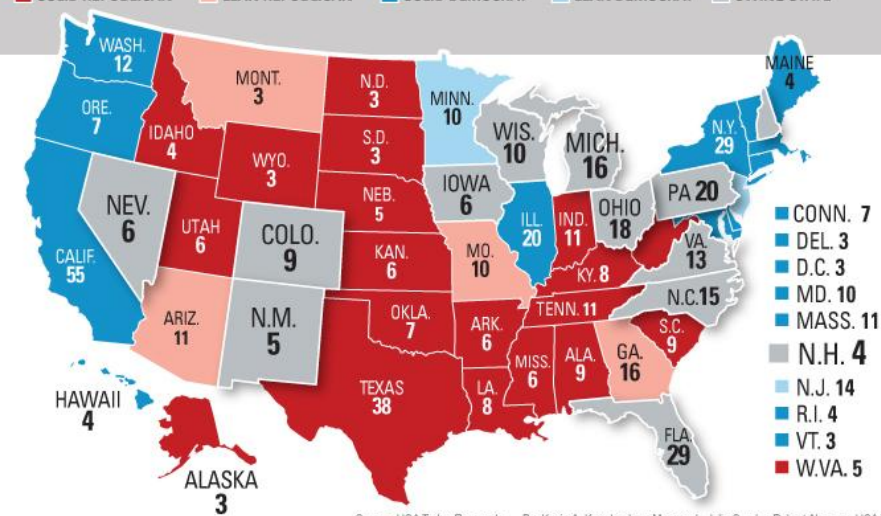
Color Size Label

Detail Tooltip

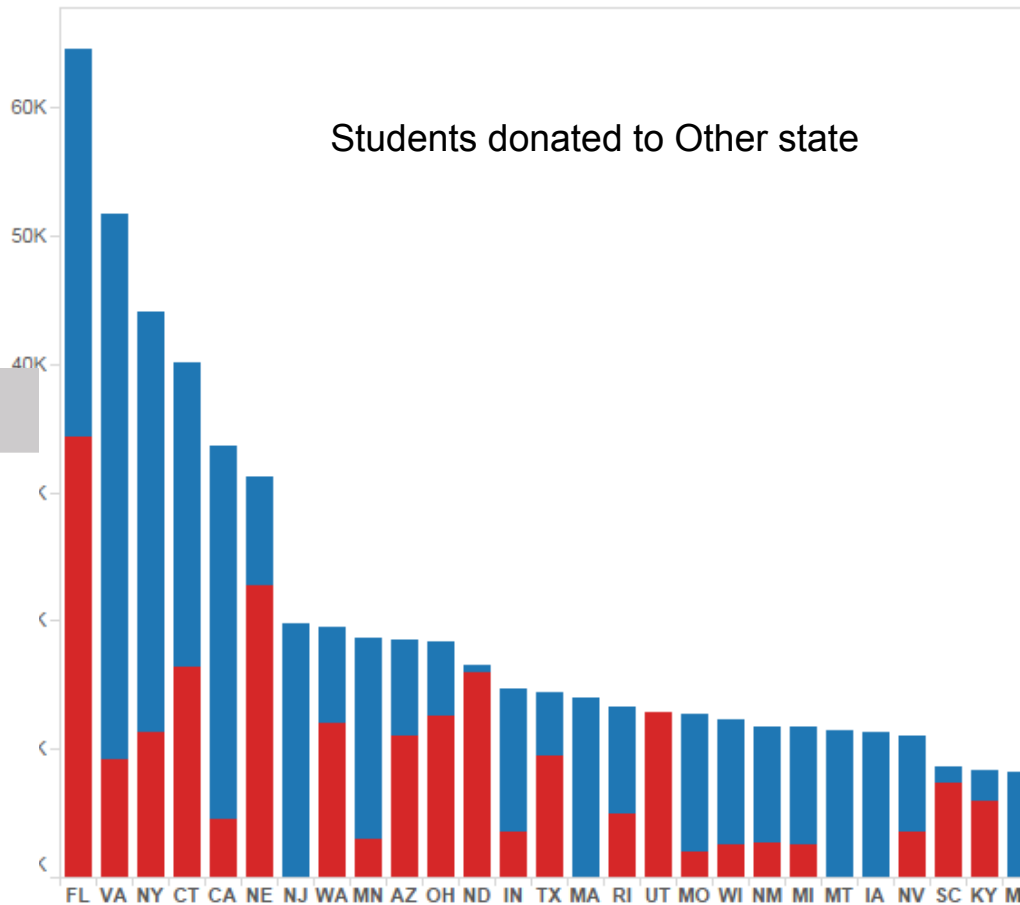
not contributed to own state

Students donated to Other state

SOLID REPUBLICAN LEAN REPUBLICAN SOLID DEMOCRAT LEAN DEMOCRAT SWING STATE



Source: USA Today Research By: Kevin A. Kepple, Jerry Mosemak, Julie Snyder, Robert Aherens, USA TODAY



Calculated Field [not contributed to own state]

Name: not contributed to own state

Formula:

```
IF ([Recipient State] = [Contributor State])
ELSE [Recipient State]
END
```

Pages

Columns

not contributed to o..

Rows

SUM(Amount)

Filters

not contributed to o..

Marks

Automatic

Color

Size

Label

Detail

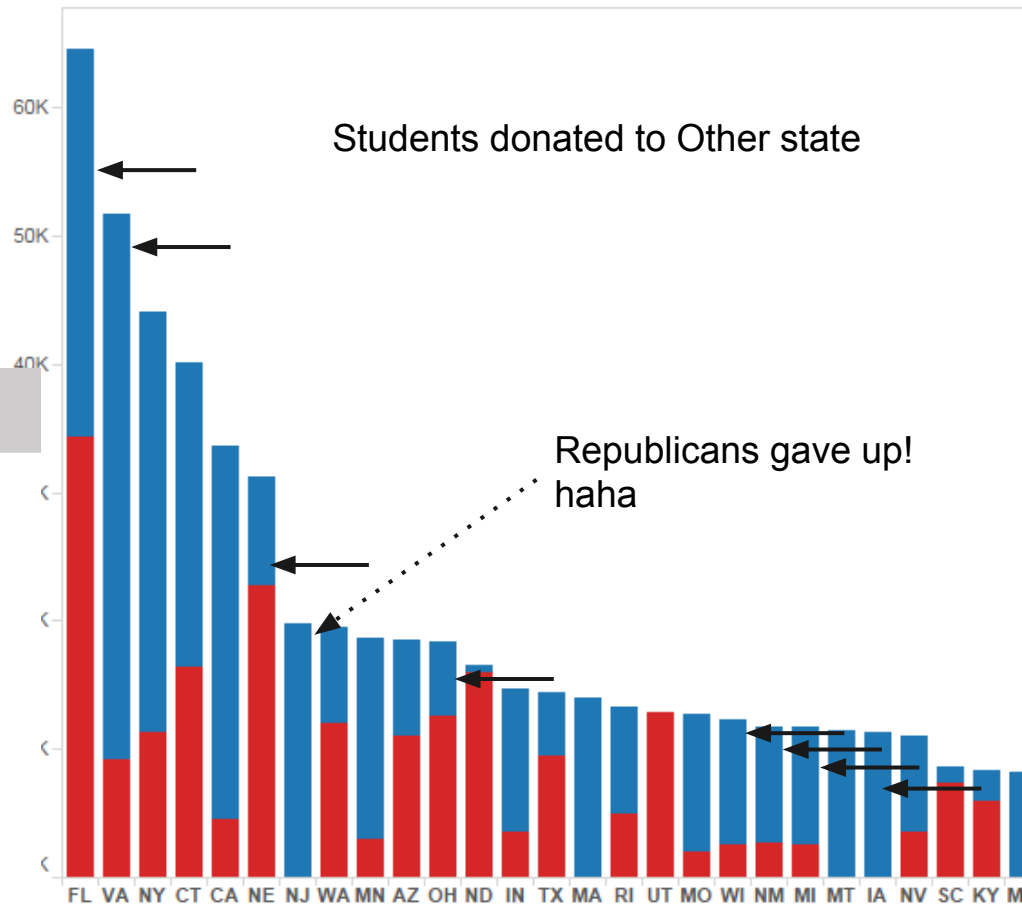
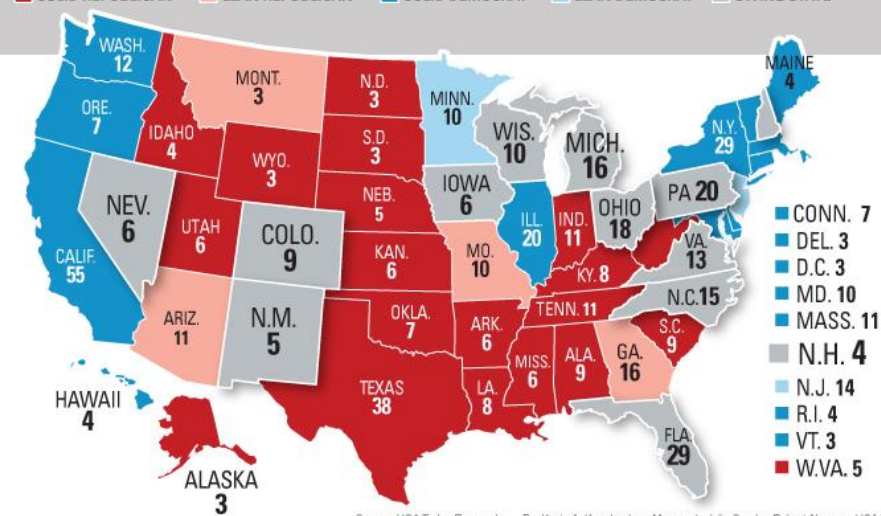
Tooltip

not contributed to own state

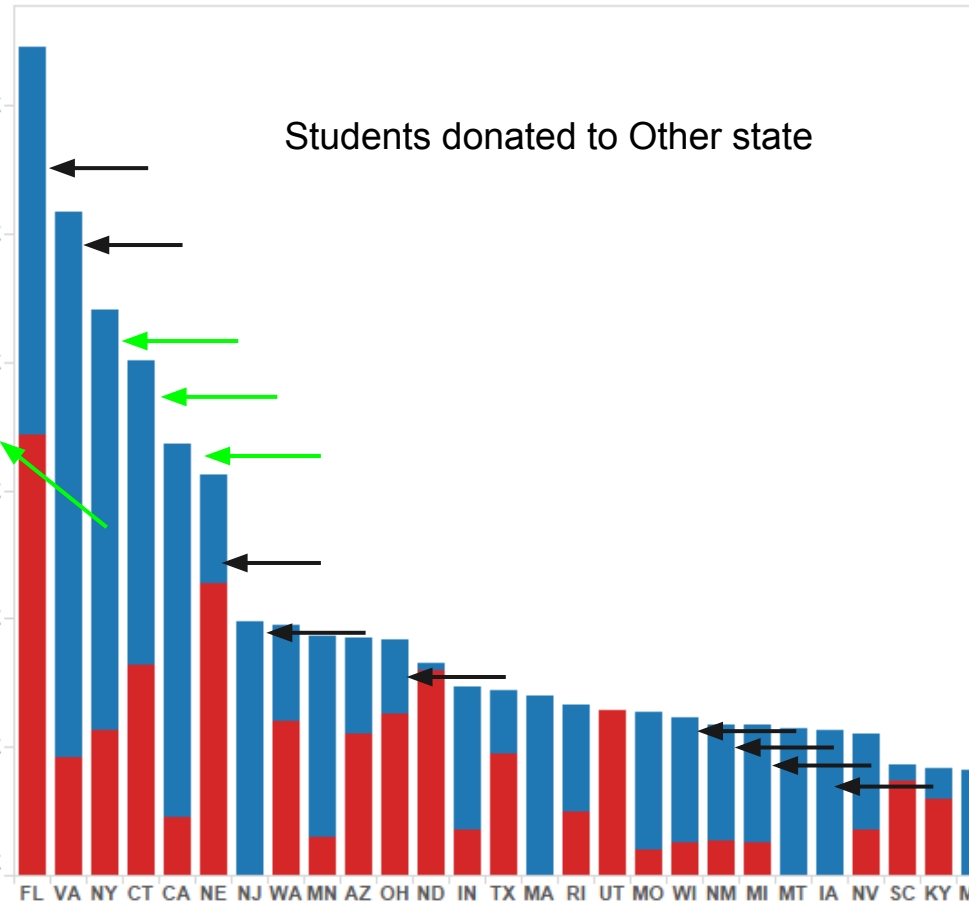
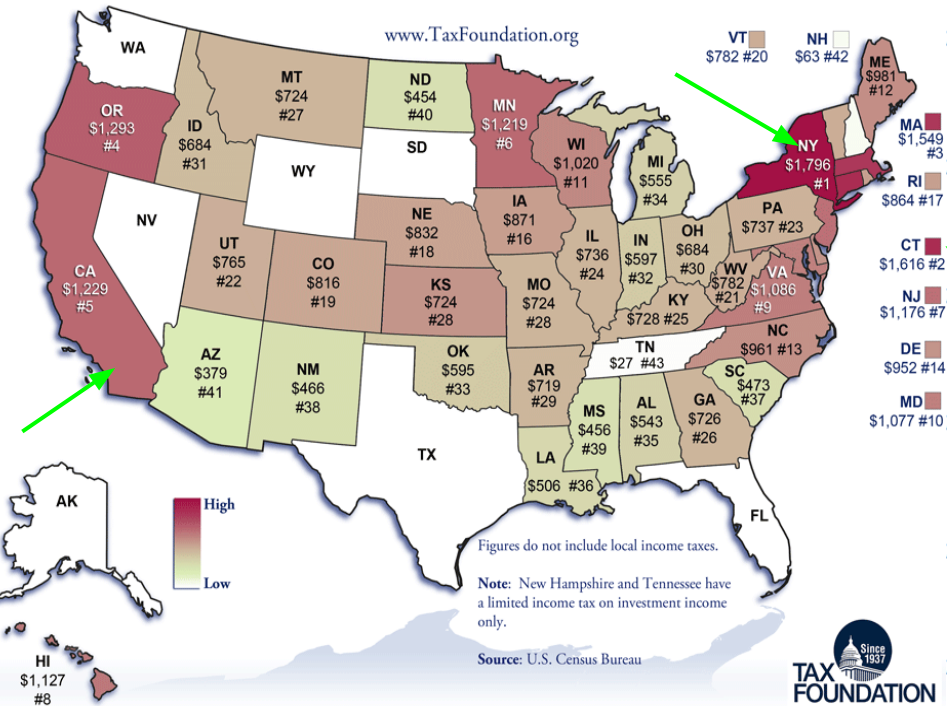
Students donated to Other state

Republicans gave up!
haha

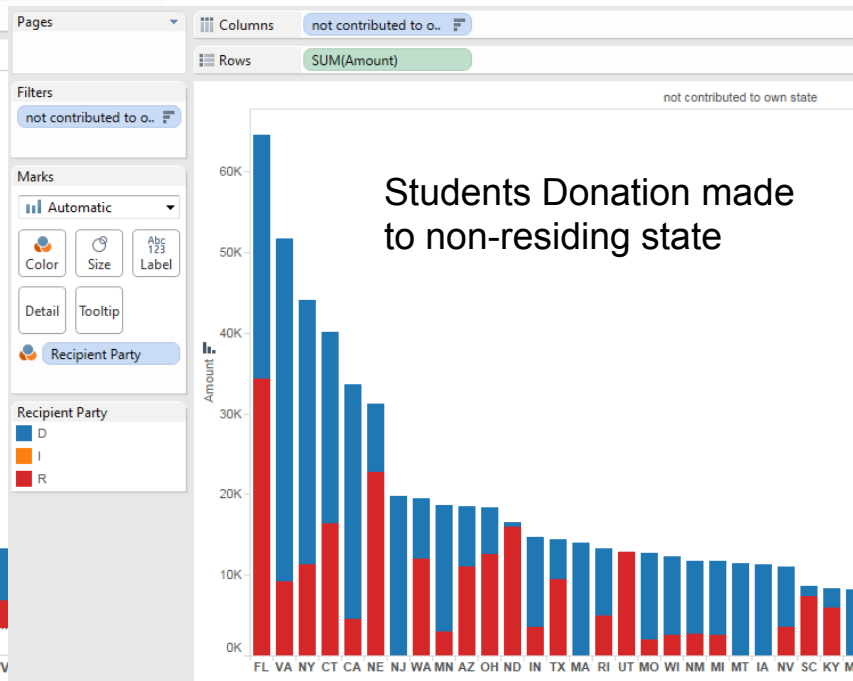
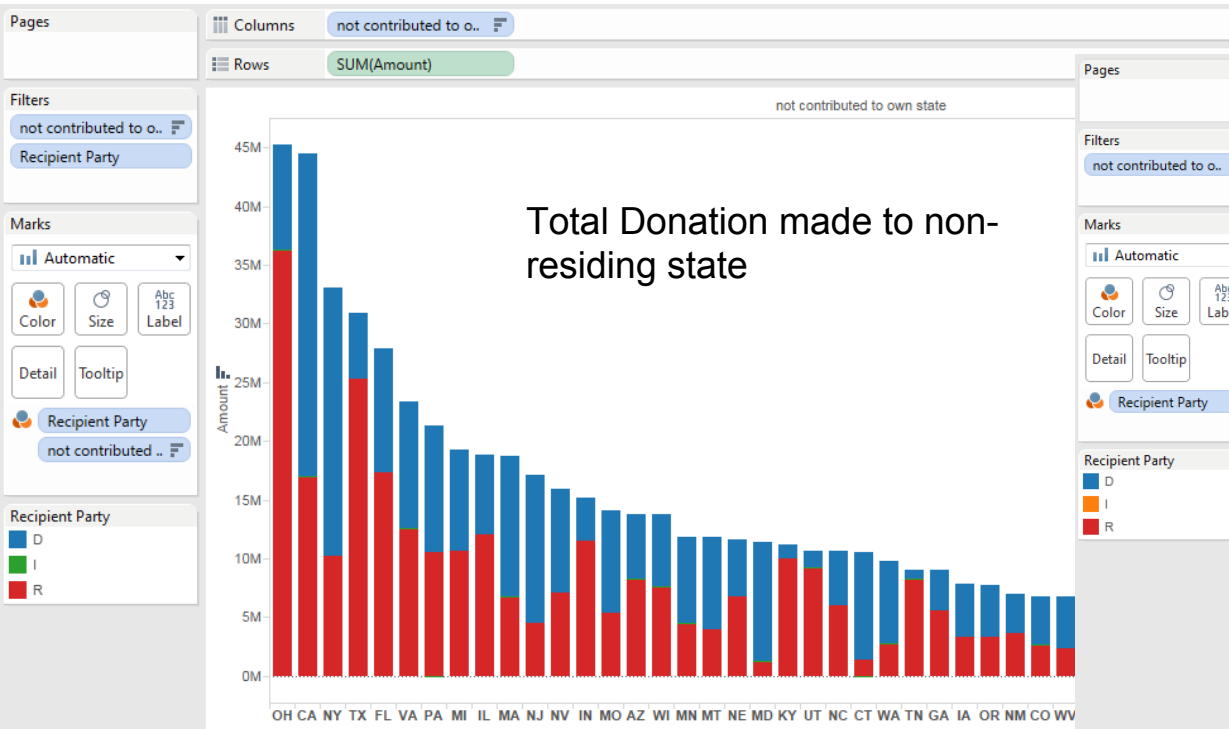
SOLID REPUBLICAN LEAN REPUBLICAN SOLID DEMOCRAT LEAN DEMOCRAT SWING STATE



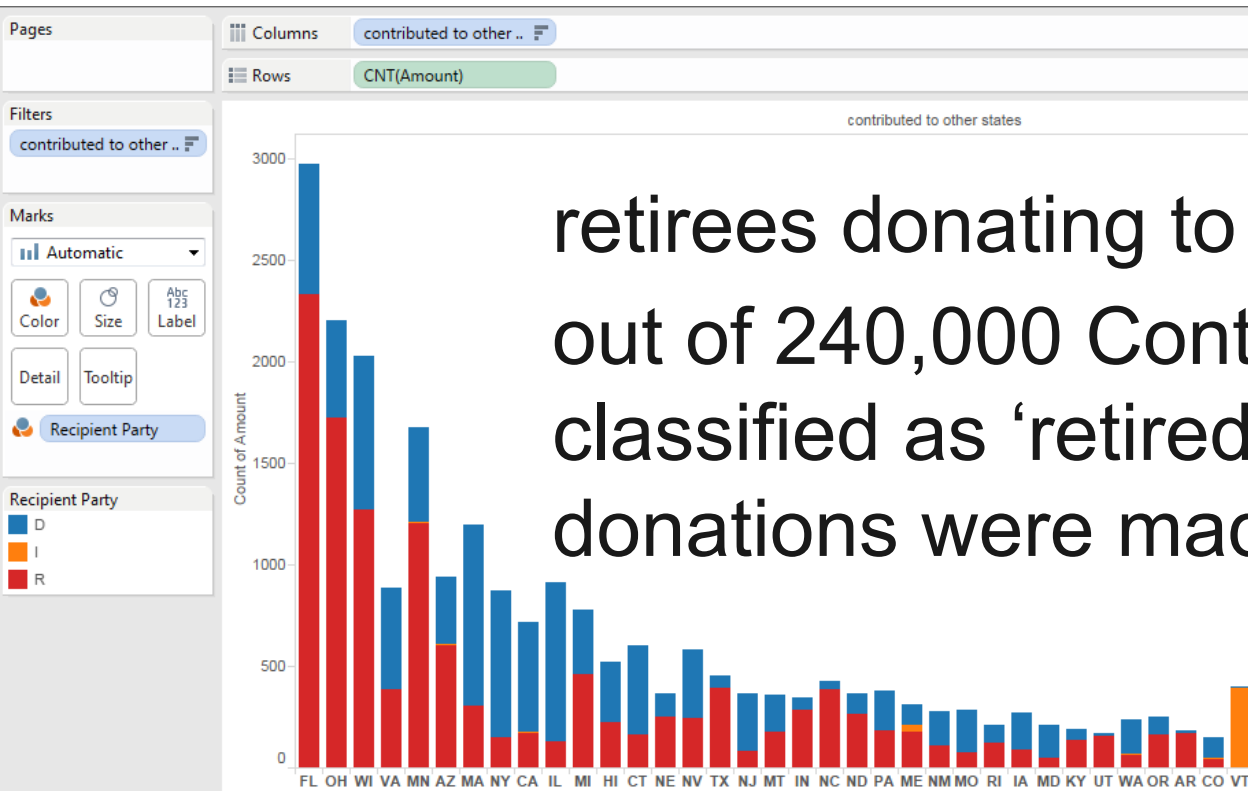
State Income Tax Collections Per Capita



Total Donated to Other State



More interesting things



retirees donating to other states
out of 240,000 Contributors
classified as 'retired', only 24,314
donations were made to out of own
states

cont.

- John Ramsey(student) from Austin, TX contributed 1.91M to Super PAC
- Matthew W. Goldman contributed the most to Democrat officially.



Matthew W. Goldman

Principal at G2 Insurance Services
San Francisco Bay Area | Insurance

Current G2 Insurance Services, Lisa and Doug
Previous Impact Grants Initiative, The David Bro
Education UC Berkeley

Send Matthew W. InMail

GOLDMAN,
MATTHEW W

Contributor Name: GOLDMAN, MATTHEW W
Recipient Party: D
Amount: 142,400

✓ Keep Only

✗ Exclude



GOLDMAN,
JASON E

Conclusion

- Clustering algorithms can show many things that you didn't think of at first.
- Although there may be more factors that decide contribution amount, donation to swing states has proved to be a strong factor.
- In California, retirees choose to completely keep campaign contributions inside their own state, while students choose to also donate significant amounts to states other than California