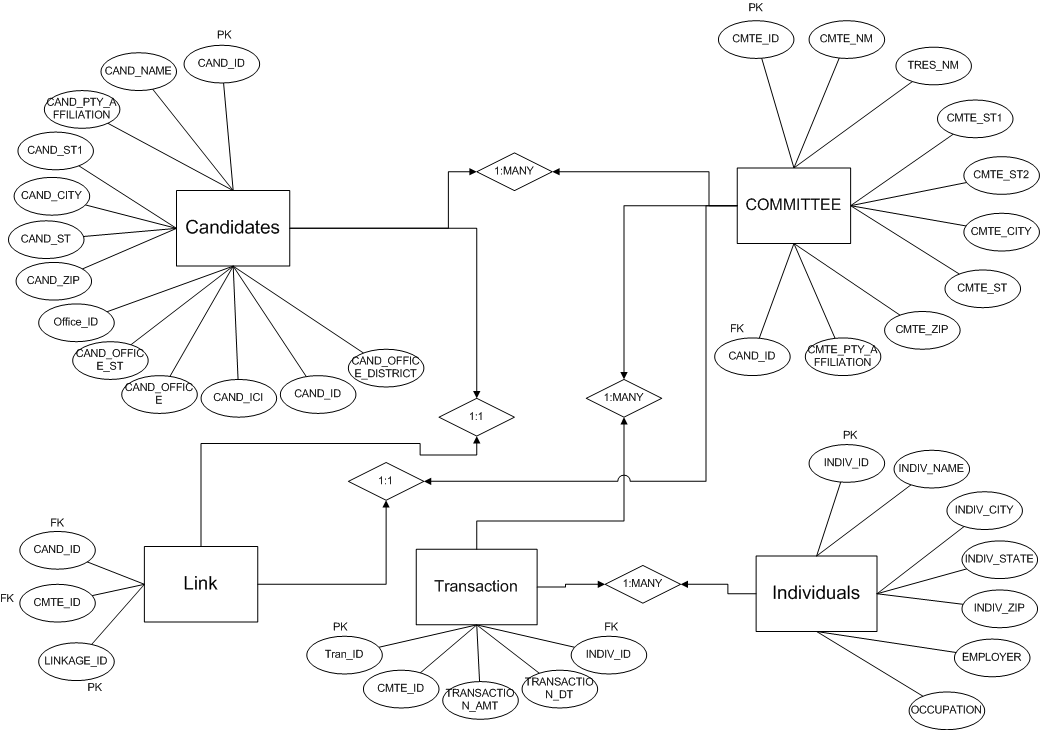
CS331 Project 2

Haiqiang Zou

Student ID: 2717

Due Data: 4/22/2013

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**QUESTIONS**

1. Identify contributions by banks or finance related occupations to each party. Use

a join and functions to create your output. Create three reports:

1. Contributions by party. Include only Democratic and Republican candidates. Display one row for Democratic and one row for Republican. Display party name, number of contributions and total contributions.
2. Identify top ten employers for Democrats. Display employer, number of contributions and total contributions. Display the employer with the highest total contributions first.
3. Identify top ten employers for Republicans. Display employer, number of contributions and total contributions. Display the employer with the highest total contributions first.

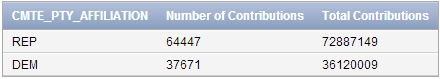
1a)

select cmte\_Pty\_affiliation, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from transaction t, committee c, individuals i

where t.cmte\_id = c.cmte\_id and t.indiv\_id=i.indiv\_id and (CMTE\_PTY\_AFFILIATION='REP' or CMTE\_PTY\_AFFILIATION='DEM') and (occupation like '%BANK%' or occupation like '%FINAN%' or occupation like '%INVEST%'or occupation like '%BROKER%' or occupation like '%VENTURE%' or occupation like '%ECONO%' or employer like '%BANK%' or employer like '%FINAN%' or employer like '%INVEST%')

group by cmte\_pty\_affiliation;



1b)

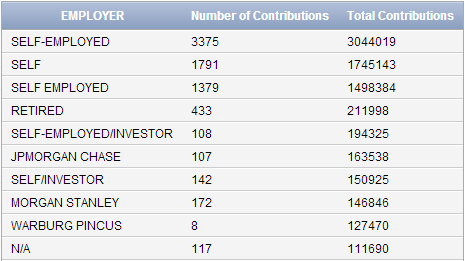
select employer, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from individuals i, transaction t, committee c

where i.indiv\_id=t.indiv\_id and t.cmte\_id=c.cmte\_ID and cmte\_pty\_affiliation='DEM' and (occupation like '%BANK%' or occupation like '%FINAN%' or occupation like '%INVEST%'or occupation like '%BROKER%' or occupation like '%VENTURE%' or occupation like '%ECONO%')

group by employer

order by 3 desc;



1C)

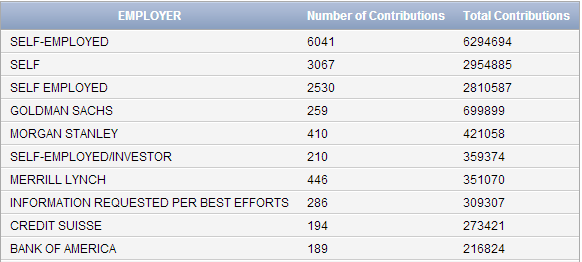
select employer, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from individuals i, transaction t, committee c

where i.indiv\_id=t.indiv\_id and t.cmte\_id=c.cmte\_ID and cmte\_pty\_affiliation='REP' and (occupation like '%BANK%' or occupation like '%FINAN%' or occupation like '%INVEST%'or occupation like '%BROKER%' or occupation like '%VENTURE%' or occupation like '%ECONO%')

group by employer

order by 3 desc;



1. Identify the location of campaign contributions for the representative in your neighborhood. Display the city, state, number of contributions and total contributions. Output one row for each distinct city and state. Display the city with the highest contributions first.

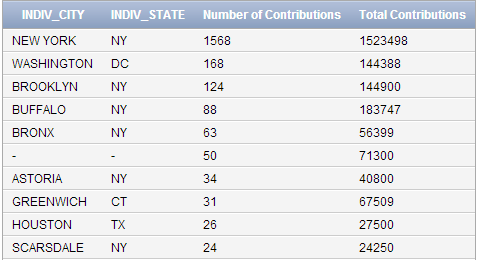
select indiv\_city, indiv\_state, count(\*) "Number of Contributions", sum(Transaction\_amt) "Total Contributions"

from candidates ca, link l, transaction t, individuals i

where cand\_city = 'NEW YORK' and CAND\_ST = 'NY' and ca.cand\_id = l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id

group by indiv\_city, indiv\_state

order by 3 desc;



1. Identify party affiliation for contributors in your neighborhood. Include all candidates.
2. Display the party affiliation, number of contributions and total contributions. Display one row for each party. The party with the highest total contributions first will be displayed first.
3. Compare your neighborhood to Alaska. Display the party affiliation, number of contributions and total contributions. Display one row for each party. The party with the highest total contributions will be displayed first.

3a)

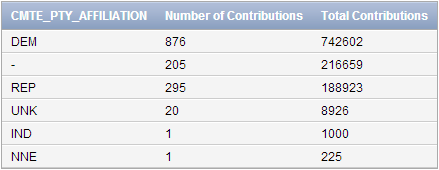
select cmte\_pty\_affiliation, count(\*) "Number of Contributions", sum(Transaction\_amt) "Total Contributions"

from individuals i, committee c, transaction t

where (indiv\_city='FLUSHING' or indiv\_zip='11355' or indiv\_zip='11354' or indiv\_zip='11356' or indiv\_zip='11357') and indiv\_state='NY' and i.indiv\_id=t.indiv\_id and t.cmte\_id=c.cmte\_id

group by cmte\_pty\_affiliation

order by 3 desc;



3b)

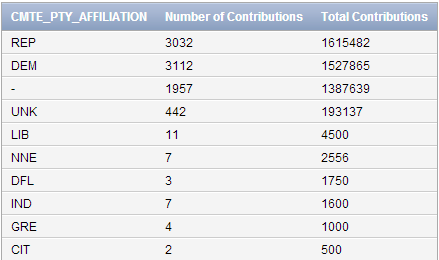
select cmte\_pty\_affiliation, count(\*) "Number of Contributions", sum(Transaction\_amt) "Total Contributions"

from individuals i, committee c, transaction t

where indiv\_state='AK' and i.indiv\_id=t.indiv\_id and t.cmte\_id=c.cmte\_id

group by cmte\_pty\_affiliation

order by 3 desc;



1. Identify campaign contributions by state for all candidates. Display the state, number of contributions, total contributions and average contributions. Display the state with the most contributions first. Output one row for each state.

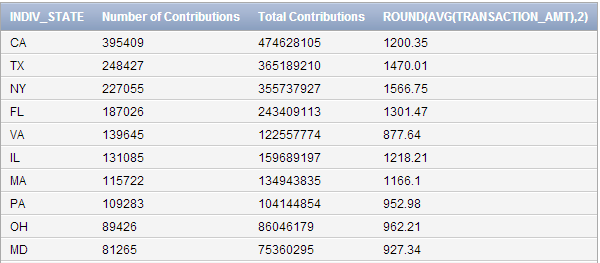
select indiv\_state, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions", round(avg(transaction\_amt),2)

from individuals i, transaction t

where i.indiv\_id=t.indiv\_id

group by indiv\_state

order by 2 desc;



1. Identify zip codes with the most fund raising for candidates Obama and Romney. Display the zip code, number of contributions, total contributions and average contributions. Display the top five Democratic and top five Republican zip codes. Display the zip codes with the highest contributions first. Where are these zip codes? Use a nested select and functions to create your output.

Display the zip code, number of contributions, total contributions and average contributions.

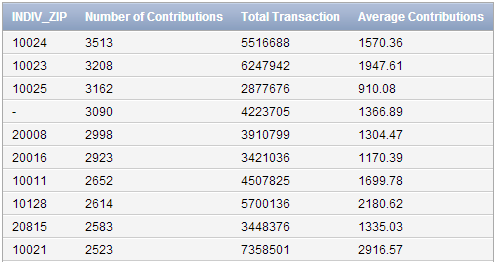
select indiv\_zip, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Transaction", round(avg(transaction\_amt),2) "Average Contributions"

from candidates ca, link l, transaction t, individuals i

where (ca.cand\_name='"OBAMA, BARACK"' or ca.cand\_name='"ROMNEY, MITT / RYAN, PAUL D. "') and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id

group by indiv\_zip

order by 2 desc;



Display the top five Democratic and top five Republican zip codes

select \*

from (select indiv\_zip "Top 5 Democractic Zip", count(\*) "Number of Contributions"

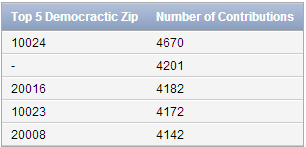
from individuals i, transaction t, committee c

where i.indiv\_id=t.indiv\_id and t.cmte\_id=c.cmte\_id and c.cmte\_pty\_affiliation='DEM'

group by indiv\_zip

order by 2 desc)

where rownum<=5;



select \*

from (select indiv\_zip "Top 5 REP Zip", count(\*) "Number of Contributions"

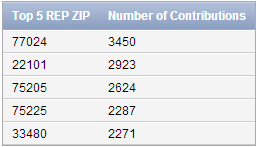
from individuals i, transaction t, committee c

where i.indiv\_id=t.indiv\_id and t.cmte\_id=c.cmte\_id and c.cmte\_pty\_affiliation='REP’

group by indiv\_zip

order by 2 desc)

where rownum<=5;



1. Identify the top ten campaign contributors for two candidates in the same race. Display the contributor name, employer, city, state, zip code, contribution amount and candidate name. Display the contributor with the highest total contributions first.

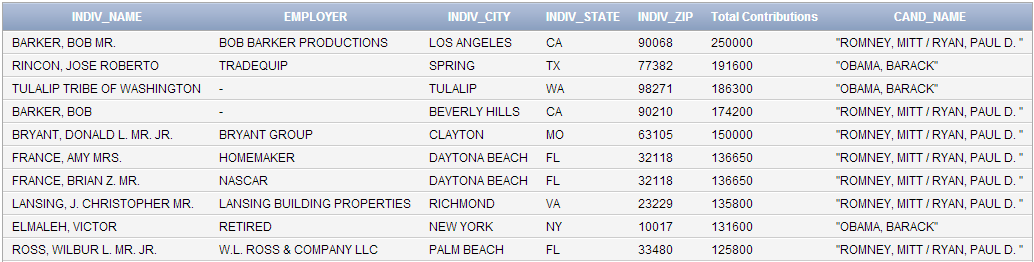
select indiv\_name, employer, indiv\_city, indiv\_state, indiv\_zip, sum(transaction\_amt) "Total Contributions", cand\_name

from candidates ca, link l, transaction t, individuals i

where (ca.cand\_name='"OBAMA, BARACK"' or ca.cand\_name='"ROMNEY, MITT / RYAN, PAUL D. "') and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id

group by indiv\_name, employer, indiv\_city, indiv\_state, indiv\_zip, cand\_name

order by 6 desc;



1. Identify the top ten college or university contributors for candidates Obama and Romney. Display the university/college name, number of contributions, total contributions and average contributions. Display the top five Democratic and top five Republican contributors. Display the university/college with the highest contributions first. Use a nested select and functions to create your output.

select employer, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Transaction", round(avg(transaction\_amt),2) "Average Contributions"

from transaction t, individuals i, link l, candidates ca

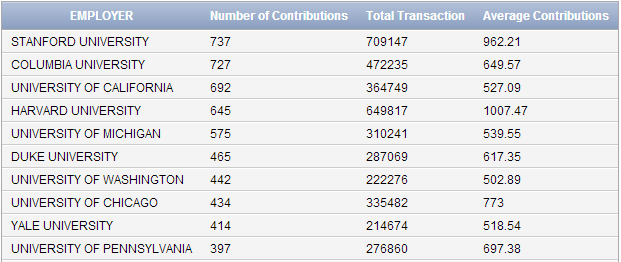
where i.indiv\_id=t.indiv\_id and t.cmte\_id=l.cmte\_id and l.cand\_id=ca.cand\_id and employer in (select employer

from individuals

where (employer like '%UNIVERSITY%' OR EMPLOYER LIKE '%COLLEGE%') and (ca.cand\_name='"OBAMA, BARACK"' or ca.cand\_name='"ROMNEY, MITT / RYAN, PAUL D. "'))

group by employer

order by 2 desc;



Display the top five Democratic contributors

select employer, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Transaction", round(avg(transaction\_amt),2) "Average Contributions"

from transaction t, individuals i, committee c

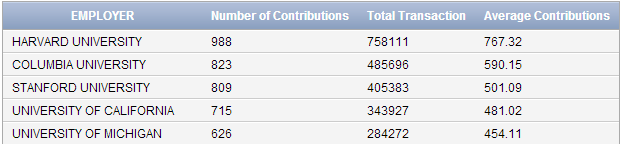
where i.indiv\_id=t.indiv\_id and t.cmte\_id=c.cmte\_id and c.cmte\_pty\_affiliation='DEM' and employer in(select employer

from individuals

where (employer like '%UNIVERSITY%' OR EMPLOYER LIKE '%COLLEGE%')

group by employer

order by 2 desc



Display the top five Republican contributors

select employer, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Transaction", round(avg(transaction\_amt),2) "Average Contributions"

from transaction t, individuals i, committee c

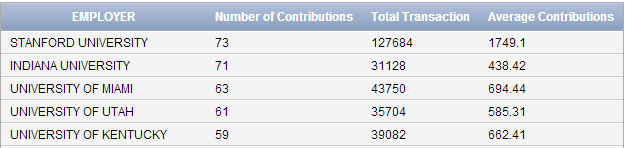
where i.indiv\_id=t.indiv\_id and t.cmte\_id=c.cmte\_id and c.cmte\_pty\_affiliation='REP' and employer in(select employer

from individuals

where (employer like '%UNIVERSITY%' OR EMPLOYER LIKE '%COLLEGE%') )

group by employer

order by 2 desc



1. Identify the top five technology companies that contributed to candidates Romney and Obama. Create one report for each candidate. Display the company, number of contributions, total contributions and average contributions. Use a nested select and functions to create your report.

Obama

select employer,count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contribution", round(avg(transaction\_amt),2) "Average Contributions"

from candidates ca, link l,transaction t, individuals i

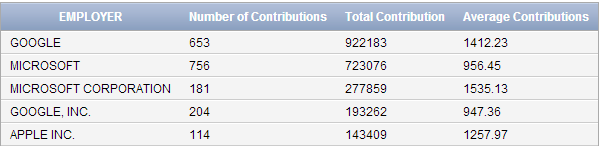
where ca.cand\_name='"OBAMA, BARACK"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id and employer in (select employer

from transaction

where employer like '%TECHNOLOGY%' or employer like '%GOOGLE%' or employer like '%MICROSOFT%' or employer like '%APPLE%' or employer like '%ORACLE%' or employer like '%FACEBOOK%')

group by employer

order by 3 desc;



Romney

select employer,count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contribution", round(avg(transaction\_amt),2) "Average Contributions"

from candidates ca, link l,transaction t, individuals i

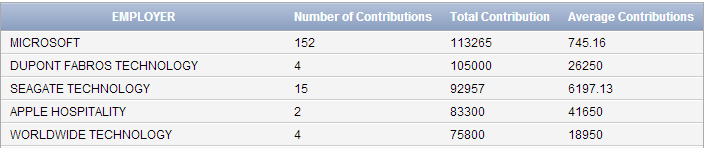
where ca.cand\_name='"ROMNEY, MITT / RYAN, PAUL D. "' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id and employer in (select employer

from transaction

where employer like '%TECHNOLOGY%' or employer like '%GOOGLE%' or employer like '%MICROSOFT%' or employer like '%APPLE%' or employer like '%ORACLE%' or employer like '%FACEBOOK%')

group by employer

order by 3 desc;



1. Identify small and large dollar contributions for candidates Obama and Romney. Display the number of contributions and total contributions of $100, $200, $250, $1000, $2000, $2500, $5000, $10000 for both candidates. Only display these eight dollar contributions on eight rows.

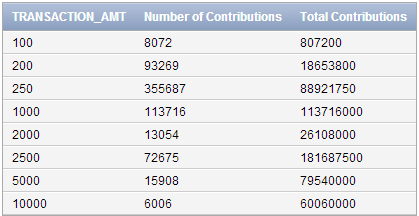
select transaction\_amt, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from transaction t, link l, candidates ca

where (t.transaction\_amt='100' or t.transaction\_amt='200' or t.transaction\_amt='250' or t.transaction\_amt='1000' or t.transaction\_amt='2000' or t.transaction\_amt='2500'or t.transaction\_amt='5000' or t.transaction\_amt='10000') and (ca.cand\_name='"OBAMA, BARACK"' or ca.cand\_name='"ROMNEY, MITT / RYAN, PAUL D. "') and t.cmte\_id=l.cmte\_id and l.cand\_id=ca.cand\_id

group by transaction\_amt

order by 1 asc;



1. Identify if incumbents raise more money than challengers in New York. Display the candidate state, district, office, ici (challenger or incumbent), candidate name, number of contributions and amount of contributions. Order by districts. Display the incumbent first and challenger on the next line.

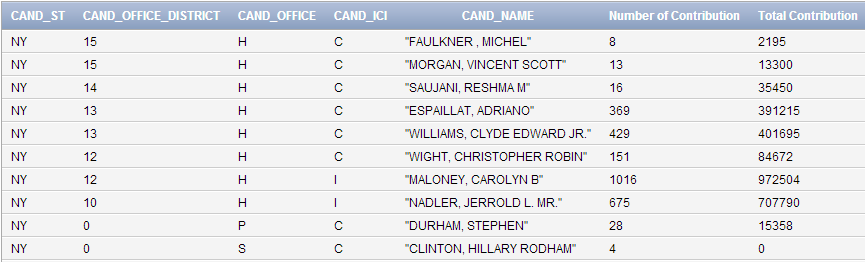
select cand\_st, cand\_office\_district, cand\_office, cand\_ici, cand\_name, count(\*) "Number of Contribution", sum(transaction\_amt) "Total Contribution"

from candidates ca, transaction t, link l

where cand\_city='NEW YORK' and cand\_st='NY' and (cand\_ici='C' or cand\_ici='I') and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_st, cand\_office\_district, cand\_office, cand\_ici, cand\_name

order by 2 desc;



Display the incumbent first and challenger on the next line.

select cand\_ici, count(\*) "Number of Contribution", sum(transaction\_amt) "Total Contribution"

from candidates ca, transaction t, link l

where cand\_city='NEW YORK' and cand\_st='NY' and (cand\_ici='C' or cand\_ici='I') and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_ici

order by 2 desc;



1. Identify if increased campaign contributions results in winning candidates. Review several states and discuss your findings.

New York Representative Incumbent - Bishop Timothy

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='NY' and cand\_name='"BISHOP, TIMOTHY"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



New York Representative Incumbent - Israel Steve

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='NY' and cand\_name='"ISRAEL, STEVE J."' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



New York Representative Challenger - "LABATE, STEPHEN A"

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='NY' and cand\_name='"LABATE, STEPHEN A"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



New York Representative Challenger - "DEMOS, GEORGE"

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='NY' and cand\_name='"DEMOS, GEORGE"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



New Jersey Representative Incumbent - "ANDREWS, ROBERT E. MR."

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='NJ' and cand\_name='"ANDREWS, ROBERT E. MR."' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



New Jersey Representative Incumbent - "LOBIONDO, FRANK A."

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='NJ' and cand\_name='"LOBIONDO, FRANK A."' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



New Jersey Representative Challenger - "ROTHMAN, STEVEN R."

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='NJ' and cand\_name='"ROTHMAN, STEVEN R."' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



New Jersey Representative Challenger - "SMITH, E DAVID"

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='NJ' and cand\_name='"SMITH, E DAVID"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



Florida Representative Incumbent - "ROONEY, TOM"

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='FL' and cand\_name='"ROONEY, TOM"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



Florida Representative Incumbent - "POSEY, BILL"

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='FL' and cand\_name='"POSEY, BILL"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



Florida Representative Challenger -"LONG, WILLIAM TODD"

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='FL' and cand\_name='"LONG, WILLIAM TODD"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



Florida Representative Challenger - "GUNTER, DAVID ALAN"

select cand\_name, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, transaction t, link l

where ca.cand\_st='FL' and cand\_name='"GUNTER, DAVID ALAN"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id

group by cand\_name;



According to the data that we have on file for 2012, it shows that usually the incumbent gets a higher contribution and higher contribution does help the candidates in winning the election.

1. Compare contributions by occupation for two candidates. Create two reports. Display the occupation, number of contributions and total contributions for candidate A; number of contributions and total contributions for candidate B. Include only the following professions: attorney, physician, teacher, investor, banker and artist. Note, these professions can be referred to by different names. For instance, physicians can also be referred to as doctors; teachers/professors; artists/actors, actresses, writers, etc.

Candidate A – Obama

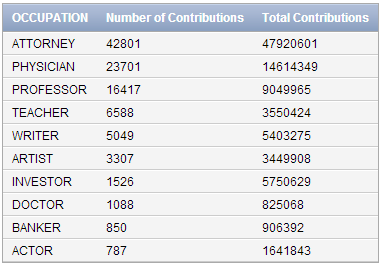
select occupation, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, link l, transaction t, individuals i

where ca.cand\_name='"OBAMA, BARACK"' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id and (occupation='ATTORNEY' or occupation='PHYSICIAN' or occupation='DOCTOR' or occupation='TEACHER' or occupation='PROFESSOR' or occupation='INVESTOR' or occupation='BANKER' or occupation='ARTIST' or occupation='ACTOR' or occupation='ACTRESSES' or occupation='WRITER')

group by occupation

order by 2 desc;



Candidate B – Romney

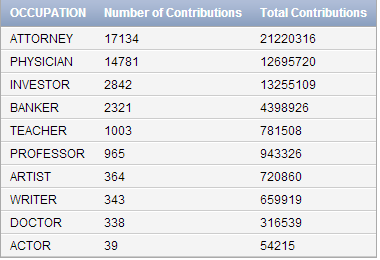
select occupation, count(\*) "Number of Contributions", sum(transaction\_amt) "Total Contributions"

from candidates ca, link l, transaction t, individuals i

where ca.cand\_name='"ROMNEY, MITT / RYAN, PAUL D. "' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id and (occupation='ATTORNEY' or occupation='PHYSICIAN' or occupation='DOCTOR' or occupation='TEACHER' or occupation='PROFESSOR' or occupation='INVESTOR' or occupation='BANKER' or occupation='ARTIST' or occupation='ACTOR' or occupation='ACTRESSES' or occupation='WRITER')

group by occupation

order by 2 desc;



1. Identify incumbents in New York that raised more than $100,000 and did not receive contributions from lawyers. Display the candidate, district, state and office. Use a nested select or minus to create your output.

select cand\_name, cand\_office\_district,cand\_st, cand\_office

from candidates

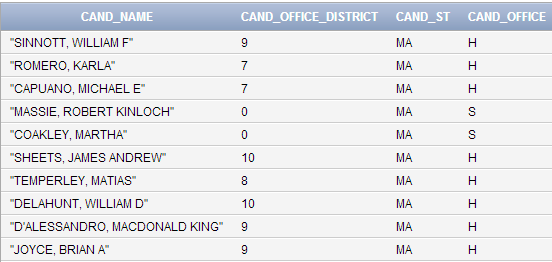
where cand\_id not in (select ca.cand\_id

from candidates ca, link l, individuals i, transaction t

where cand\_st='NY' and cand\_ici='I' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id and (i.occupation='LAWYER' or i.occupation='ATTORNEY')

group by ca.cand\_id

having sum(transaction\_amt)>100000)



1. Identify neighborhoods in NYC where candidate Romney did not receive at least $5,000 in contributions. Display the city and zip code. Output one row for each city and zip code. Use a nested select or minus to create your output.

select indiv\_city, indiv\_zip

from individuals

where indiv\_zip in(select indiv\_zip

from candidates ca, link l, transaction t, individuals i

where ca.cand\_name='"ROMNEY, MITT / RYAN, PAUL D. "' and ca.cand\_id=l.cand\_id and l.cmte\_id=t.cmte\_id and t.indiv\_id=i.indiv\_id and indiv\_state='NY'

group by indiv\_zip

having sum(transaction\_amt)<5000);

