CS331 Project 2

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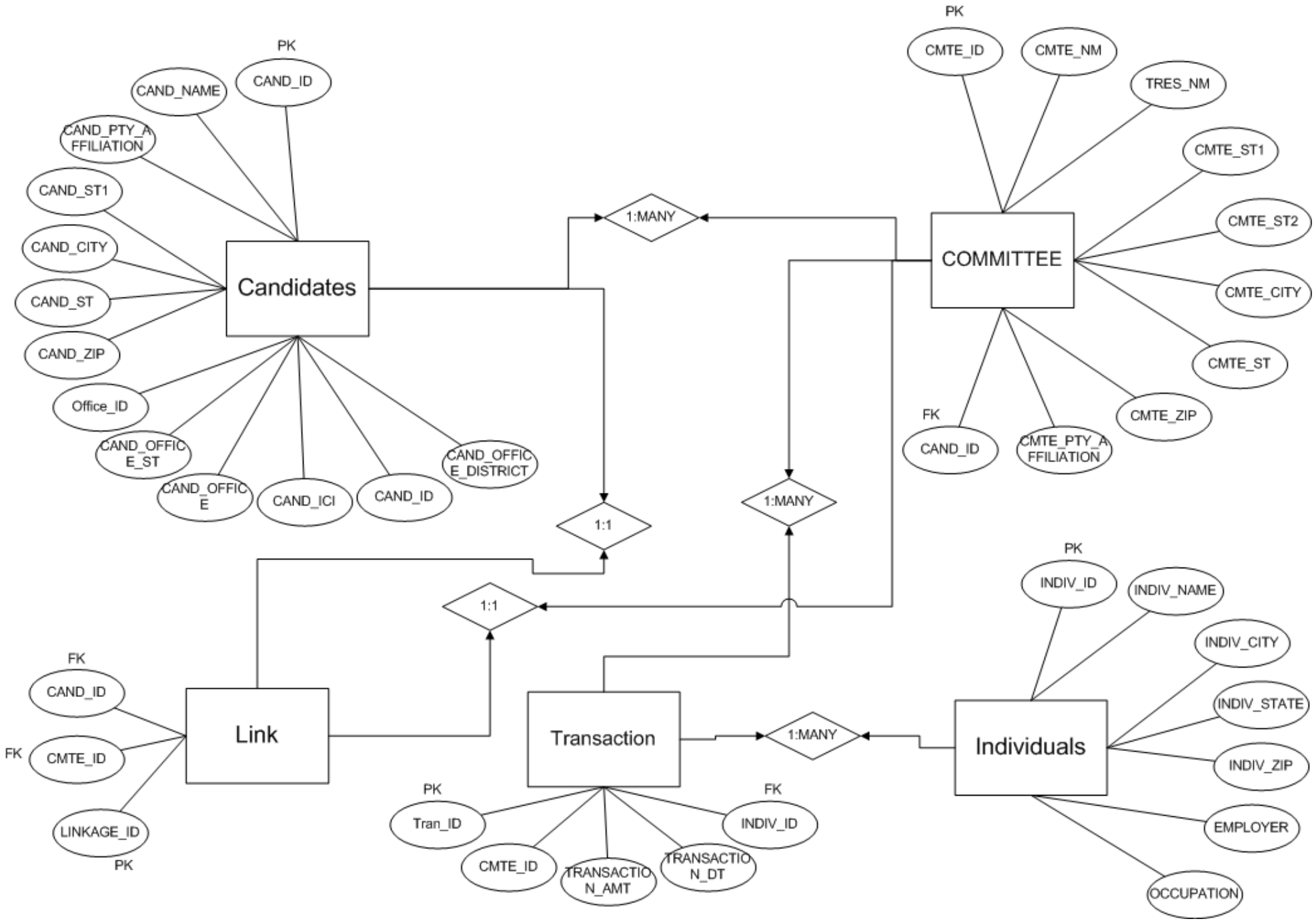
Student ID: 2717

Due Data: 4/22/2013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CAND_NAME
CAND_PTY_AFFILIATION
CAND_ST1
CAND_CITY
CAND_ST
CAND_ZIP
Office_ID
CAND_OFFICE_ST
CAND_OFFICE
CAND_ICI
CAND_ID
CAND_OFFICE_DISTRICT
Candidates
1:MANY
1:1
1:MANY
PK
CMTE_ID
CMTE_NM
TRES_NM
CMTE_ST1
CMTE_ST2
CMTE_CITY
CMTE_ST
CMTE_ZIP
CMTE_PTY_AFFILIATION
FK
CAND_ID
COMMITTEE
1:1
FK
CAND_ID
CMTE_ID
LINKAGE_ID
PK
Link
Transaction
1:MANY
PK
Tran_ID
CMTE_ID
TRANSACTION_AMT
TRANSACTION_DT
FK
INDIV_ID
PK
INDIV_ID
INDIV_NAME
INDIV_CITY
INDIV_STATE
INDIV_ZIP
EMPLOYER
OCCUPATION
Individuals

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:

    a) 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.
    b) Identify top ten employers for Democrats. Display employer, number of contributions and total contributions. Display the employer with the highest total contributions first.
    c) 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;
```

CMTE_PTY_AFFILIATION	Number of Contributions	Total Contributions
REP	64447	72887149
DEM	37671	36120009

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;
```

EMPLOYER	Number of Contributions	Total Contributions
SELF-EMPLOYED	3375	3044019
SELF	1791	1745143
SELF EMPLOYED	1379	1498384
RETIRED	433	211998
SELF-EMPLOYED/INVESTOR	108	194325
JPMORGAN CHASE	107	163538
SELF/INVESTOR	142	150925
MORGAN STANLEY	172	146846
WARBURG PINCUS	8	127470
N/A	117	111690

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;
```

EMPLOYER	Number of Contributions	Total Contributions
SELF-EMPLOYED	6041	6294694
SELF	3067	2954885
SELF EMPLOYED	2530	2810587
GOLDMAN SACHS	259	699899
MORGAN STANLEY	410	421058
SELF-EMPLOYED/INVESTOR	210	359374
MERRILL LYNCH	446	351070
INFORMATION REQUESTED PER BEST EFFORTS	286	309307
CREDIT SUISSE	194	273421
BANK OF AMERICA	189	216824

2) 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;
```

INDIV_CITY	INDIV_STATE	Number of Contributions	Total Contributions
NEW YORK	NY	1568	1523498
WASHINGTON	DC	168	144388
BROOKLYN	NY	124	144900
BUFFALO	NY	88	183747
BRONX	NY	63	56399
-	-	50	71300
ASTORIA	NY	34	40800
GREENWICH	CT	31	67509
HOUSTON	TX	26	27500
SCARSDALE	NY	24	24250

3) Identify party affiliation for contributors in your neighborhood. Include all candidates.
   a) 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.
   b) 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;
```

CMTE_PTY_AFFILIATION	Number of Contributions	Total Contributions
DEM	876	742602
-	205	216659
REP	295	188923
UNK	20	8926
IND	1	1000
NNE	1	225

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;
```

CMTE_PTY_AFFILIATION	Number of Contributions	Total Contributions
REP	3032	1615482
DEM	3112	1527865
-	1957	1387639
UNK	442	193137
LIB	11	4500
NNE	7	2556
DFL	3	1750
IND	7	1600
GRE	4	1000
CIT	2	500

4) 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;
```

INDIV_STATE	Number of Contributions	Total Contributions	ROUND(AVG(TRANSACTION_AMT),2)
CA	395409	474628105	1200.35
TX	248427	365189210	1470.01
NY	227055	355737927	1566.75
FL	187026	243409113	1301.47
VA	139645	122557774	877.64
IL	131085	159689197	1218.21
MA	115722	134943835	1166.1
PA	109283	104144854	952.98
OH	89426	86046179	962.21
MD	81265	75360295	927.34

5) 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;
```

INDIV_ZIP	Number of Contributions	Total Transaction	Average Contributions
10024	3513	5516688	1570.36
10023	3208	6247942	1947.61
10025	3162	2877676	910.08
-	3090	4223705	1366.89
20008	2998	3910799	1304.47
20016	2923	3421036	1170.39
10011	2652	4507825	1699.78
10128	2614	5700136	2180.62
20815	2583	3448376	1335.03
10021	2523	7358501	2916.57

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;
```

Top 5 Democractic Zip	Number of Contributions
10024	4670
-	4201
20016	4182
10023	4172
20008	4142

```
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;
```

Top 5 REP ZIP	Number of Contributions
77024	3450
22101	2923
75205	2624
75225	2287
33480	2271

6) 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;
```

INDIV_NAME	EMPLOYER	INDIV_CITY	INDIV_STATE	INDIV_ZIP	Total Contributions	CAND_NAME
BARKER, BOB MR.	BOB BARKER PRODUCTIONS	LOS ANGELES	CA	90068	250000	"ROMNEY, MITT / RYAN, PAUL D. "
RINCON, JOSE ROBERTO	TRADEQUIP	SPRING	TX	77382	191600	"OBAMA, BARACK"
TULALIP TRIBE OF WASHINGTON	-	TULALIP	WA	98271	186300	"OBAMA, BARACK"
BARKER, BOB	-	BEVERLY HILLS	CA	90210	174200	"ROMNEY, MITT / RYAN, PAUL D. "
BRYANT, DONALD L. MR. JR.	BRYANT GROUP	CLAYTON	MO	63105	150000	"ROMNEY, MITT / RYAN, PAUL D. "
FRANCE, AMY MRS.	HOMEMAKER	DAYTONA BEACH	FL	32118	136650	"ROMNEY, MITT / RYAN, PAUL D. "
FRANCE, BRIAN Z. MR.	NASCAR	DAYTONA BEACH	FL	32118	136650	"ROMNEY, MITT / RYAN, PAUL D. "
LANSING, J. CHRISTOPHER MR.	LANSING BUILDING PROPERTIES	RICHMOND	VA	23229	135800	"ROMNEY, MITT / RYAN, PAUL D. "
ELMALEH, VICTOR	RETIRED	NEW YORK	NY	10017	131600	"OBAMA, BARACK"
ROSS, WILBUR L. MR. JR.	W.L. ROSS & COMPANY LLC	PALM BEACH	FL	33480	125800	"ROMNEY, MITT / RYAN, PAUL D. "

7) 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;
```

EMPLOYER	Number of Contributions	Total Transaction	Average Contributions
STANFORD UNIVERSITY	737	709147	962.21
COLUMBIA UNIVERSITY	727	472235	649.57
UNIVERSITY OF CALIFORNIA	692	364749	527.09
HARVARD UNIVERSITY	645	649817	1007.47
UNIVERSITY OF MICHIGAN	575	310241	539.55
DUKE UNIVERSITY	465	287069	617.35
UNIVERSITY OF WASHINGTON	442	222276	502.89
UNIVERSITY OF CHICAGO	434	335482	773
YALE UNIVERSITY	414	214674	518.54
UNIVERSITY OF PENNSYLVANIA	397	276860	697.38

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
```

EMPLOYER	Number of Contributions	Total Transaction	Average Contributions
HARVARD UNIVERSITY	988	758111	767.32
COLUMBIA UNIVERSITY	823	485696	590.15
STANFORD UNIVERSITY	809	405383	501.09
UNIVERSITY OF CALIFORNIA	715	343927	481.02
UNIVERSITY OF MICHIGAN	626	284272	454.11

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
```

EMPLOYER	Number of Contributions	Total Transaction	Average Contributions
STANFORD UNIVERSITY	73	127684	1749.1
INDIANA UNIVERSITY	71	31128	438.42
UNIVERSITY OF MIAMI	63	43750	694.44
UNIVERSITY OF UTAH	61	35704	585.31
UNIVERSITY OF KENTUCKY	59	39082	662.41

8) 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;
```

EMPLOYER	Number of Contributions	Total Contribution	Average Contributions
GOOGLE	653	922183	1412.23
MICROSOFT	756	723076	956.45
MICROSOFT CORPORATION	181	277859	1535.13
GOOGLE, INC.	204	193262	947.36
APPLE INC.	114	143409	1257.97

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;
```

EMPLOYER	Number of Contributions	Total Contribution	Average Contributions
MICROSOFT	152	113265	745.16
DUPONT FABROS TECHNOLOGY	4	105000	26250
SEAGATE TECHNOLOGY	15	92957	6197.13
APPLE HOSPITALITY	2	83300	41650
WORLDWIDE TECHNOLOGY	4	75800	18950

9) 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;
```

TRANSACTION_AMT	Number of Contributions	Total Contributions
100	8072	807200
200	93269	18653800
250	355687	88921750
1000	113716	113716000
2000	13054	26108000
2500	72675	181687500
5000	15908	79540000
10000	6006	60060000

10) 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;
```

CAND_ST	CAND_OFFICE_DISTRICT	CAND_OFFICE	CAND_ICI	CAND_NAME	Number of Contribution	Total Contribution
NY	15	H	C	"FAULKNER , MICHEL"	8	2195
NY	15	H	C	"MORGAN, VINCENT SCOTT"	13	13300
NY	14	H	C	"SAUJANI, RESHMA M"	16	35450
NY	13	H	C	"ESPAILLAT, ADRIANO"	369	391215
NY	13	H	C	"WILLIAMS, CLYDE EDWARD JR."	429	401695
NY	12	H	C	"WIGHT, CHRISTOPHER ROBIN"	151	84672
NY	12	H	I	"MALONEY, CAROLYN B"	1016	972504
NY	10	H	I	"NADLER, JERROLD L. MR."	675	707790
NY	0	P	C	"DURHAM, STEPHEN"	28	15358
NY	0	S	C	"CLINTON, HILLARY RODHAM"	4	0

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;
```

CAND_ICI	Number of Contribution	Total Contribution
I	2212	2476141
C	1638	1577941

11) 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;
```

CAND_NAME	Number of Contributions	Total Contributions
"BISHOP, TIMOTHY"	1944	1351366

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"ISRAEL, STEVE J."	1676	2143186

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"LABATE, STEPHEN A"	322	187259

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;

CAND_NAME	Number of Contributions	Total Contributions
"DEMOS, GEORGE"	266	333405

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"ANDREWS, ROBERT E. MR."	981	737430

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"LOBIONDO, FRANK A."	719	617755

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"ROTHMAN, STEVEN R."	895	937657

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"SMITH, E DAVID"	1	1000

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"ROONEY, TOM"	663	567511

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"POSEY, BILL"	636	456643

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"LONG, WILLIAM TODD"	107	103921

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;
```

CAND_NAME	Number of Contributions	Total Contributions
"GUNTER, DAVID ALAN"	85	35183

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.

12) 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;
```

OCCUPATION	Number of Contributions	Total Contributions
ATTORNEY	42801	47920601
PHYSICIAN	23701	14614349
PROFESSOR	16417	9049965
TEACHER	6588	3550424
WRITER	5049	5403275
ARTIST	3307	3449908
INVESTOR	1526	5750629
DOCTOR	1088	825068
BANKER	850	906392
ACTOR	787	1641843

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;
```

OCCUPATION	Number of Contributions	Total Contributions
ATTORNEY	17134	21220316
PHYSICIAN	14781	12695720
INVESTOR	2842	13255109
BANKER	2321	4398926
TEACHER	1003	781508
PROFESSOR	965	943326
ARTIST	364	720860
WRITER	343	659919
DOCTOR	338	316539
ACTOR	39	54215

13) 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)
```

CAND_NAME	CAND_OFFICE_DISTRICT	CAND_ST	CAND_OFFICE
"SINNOTT, WILLIAM F"	9	MA	H
"ROMERO, KARLA"	7	MA	H
"CAPUANO, MICHAEL E"	7	MA	H
"MASSIE, ROBERT KINLOCH"	0	MA	S
"COAKLEY, MARTHA"	0	MA	S
"SHEETS, JAMES ANDREW"	10	MA	H
"TEMPERLEY, MATIAS"	8	MA	H
"DELAHUNT, WILLIAM D"	10	MA	H
"D'ALESSANDRO, MACDONALD KING"	9	MA	H
"JOYCE, BRIAN A"	9	MA	H

14) 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);
```

INDIV_CITY	INDIV_ZIP
ROCHESTER	14624
NEW YORK	10281
NEW YORK	10281
WEST HURLEY	12491
BUFFALO	14223
NEW YORK	10118
NEW YORK	10031
CENTRAL ISLIP	11722
MOUNT MORRIS	14510
BALLSTON SPA	12020