REST API: Top Schools

```
root@ip-172-31-62-153:~

Using username "root".
Authenticating with public key "imported-openssh-key"
Last login: Thu Apr 28 15:10:08 2016 from 96.250.56.82

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        /__/

Welcome to a virtual machine image brought to you by RightScale!


[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080
{
    "top schools": [
        "Harvard University",
        "Columbia University",
        "Massachusetts Institute of Technology",
        "Stanford University",
        "Princeton University",
        "Yale University",
        "University of Pennsylvania",
        "California Institute of Technology",
        "Duke University",
        "University of Chicago"
    ]
}
[root@ip-172-31-62-153 ~]#
```

REST API: Top Political Donors across All Schools

```
root@ip-172-31-62-153:~
        {
[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080/donations/all
{
    "Donations": [
        {
            "1) grad": "Jared Polis",
            "2) grad id": "28884",
            "3) school": "Princeton University",
            "4) type": "Donation",
            "5) amount": "7248874",
            "6) to person": "Jared Polis",
            "7) party": "Democratic Party",
            "8) year": "2007"
        },
        {
            "1) grad": "Carly Fiorina",
            "2) grad id": "44657",
            "3) school": "Massachusetts Institute of Technology",
            "4) type": "Donation",
            "5) amount": "5301078",
            "6) to person": "Carly Fiorina",
            "7) party": "Republican Party",
            "8) year": "2009"
        },
        {
            "1) grad": "Mitt Romney",
            "2) grad id": "34136",
            "3) school": "Harvard University",
            "4) type": "Donation",
            "5) amount": "4797235",
            "6) to person": "Mitt Romney",
            "7) party": "Republican Party",
            "8) year": "1994"
        },
        {
            "1) grad": "John Kerry",
```

REST API: Top Donors for a Specific School

```
root@ip-172-31-62-153:~
}
[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080
/donations/University_of_Chicago
{
    "Donations": [
        {
            "1) grad": "Steven A Kersten",
            "2) grad id": "40608",
            "3) school": "University of Chicago",
            "4) type": "Donation",
            "5) amount": "113900",
            "6) to person": "Barack Obama",
            "7) party": "Democratic Party",
            "8) year": "2007"
        },
        {
            "1) grad": "Mellody L Hobson",
            "2) grad id": "4694",
            "3) school": "University of Chicago",
            "4) type": "Donation",
            "5) amount": "107200",
            "6) to person": "Barack Obama",
            "7) party": "Democratic Party",
            "8) year": "1999"
        },
        {
            "1) grad": "James S Crown",
            "2) grad id": "1205",
            "3) school": "University of Chicago",
            "4) type": "Donation",
            "5) amount": "101400",
            "6) to person": "Barack Obama",
            "7) party": "Democratic Party",
```

REST API: Top Donations made by a single graduate

```
root@ip-172-31-62-153:~
[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080/donations/40608 | more
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  2917  100  2917    0     0   112k      0 --:--:-- --:--:-- --:--:--  142k
{
    "Donations": [
        {
            "1) entity 1": "Steven A Kersten",
            "2) grad id": "40608",
            "3) donated to": "Barack Obama",
            "4) id of recipient": "13503",
            "5) relation type": "Donation",
            "6) Amount": "113900"
        },
        {
            "1) entity 1": "Steven A Kersten",
            "2) grad id": "40608",
            "3) donated to": "Democratic National Committee",
            "4) id of recipient": "28862",
            "5) relation type": "Donation",
            "6) Amount": "64300"
        },
        {
            "1) entity 1": "Steven A Kersten",
            "2) grad id": "40608",
            "3) donated to": "North Carolina Democratic Party - Federal",
            "4) id of recipient": "29192",
            "5) relation type": "Donation",
            "6) Amount": "5432"
        },
        {
            "1) entity 1": "Steven A Kersten",
            "2) grad id": "40608",
            "3) donated to": "Iowa Democratic Party",
            "4) id of recipient": "28987",
            "5) relation type": "Donation",
```

REST API: Connections of a Graduate, excluding Donations

```
root@ip-172-31-62-153:~
[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080/connections/1205
{
    "Connections": [
        {
            "1) entity 1": "James S Crown",
            "2) entity 1 id": "1205",
            "3) entity 2": "General Dynamics",
            "4) entity 2 id ": "88",
            "5) relation type": "Position"
        },
        {
            "1) entity 1": "James S Crown",
            "2) entity 1 id": "1205",
            "3) entity 2": "World Business Chicago",
            "4) entity 2 id ": "42627",
            "5) relation type": "Membership"
        },
        {
            "1) entity 1": "James S Crown",
            "2) entity 1 id": "1205",
            "3) entity 2": "Obama for America",
            "4) entity 2 id ": "28864",
            "5) relation type": "Position"
        },
        {
            "1) entity 1": "James S Crown",
            "2) entity 1 id": "1205",
            "3) entity 2": "The Aspen Institute",
            "4) entity 2 id ": "33350",
            "5) relation type": "Position"
        },
        {
            "1) entity 1": "James S Crown",
            "2) entity 1 id": "1205",
            "3) entity 2": "JPMorgan Chase",
            "4) entity 2 id ": "12",
```

REST API: Summary: All Schools, All Years

```
root@ip-172-31-62-153:~
    ]
}
[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080/donationsummaries/all/all
{
    "Summary of political contributions": [
        {
            "1) Year": "2012",
            "2) Democrat %": "0.43",
            "3) Republican %": "0.57",
            "4) Total $": "6868097"
        },
        {
            "1) Year": "2011",
            "2) Democrat %": "0.41",
            "3) Republican %": "0.59",
            "4) Total $": "8676323"
        },
        {
            "1) Year": "2010",
            "2) Democrat %": "0.42",
            "3) Republican %": "0.58",
            "4) Total $": "7090252"
        },
        {
            "1) Year": "2009",
            "2) Democrat %": "0.34",
            "3) Republican %": "0.66",
            "4) Total $": "10092004"
        },
        {
            "1) Year": "2008",
            "2) Democrat %": "0.72",
            "3) Republican %": "0.28",
            "4) Total $": "14546214"
        },
        {
```

REST API: Summary: All Schools, Specific Year

```
root@ip-172-31-62-153:~
}
[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080/donationsummaries/all/2003
{
    "Summary of political contributions": [
        {
            "1) Year": "2003",
            "2) Democrat %": "0.83",
            "3) Republican %": "0.17",
            "4) Total $": "11947257"
        }
    ]
}
[root@ip-172-31-62-153 ~]#
```

REST API: Summary: Specific School, All Years

```
root@ip-172-31-62-153:~
[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080/donationsummaries/University_of_Chicago/all
{
    "Summary of political contributions": [
        {
            "1) Year": "2012",
            "2) Democrat %": "0.19",
            "3) Republican %": "0.81",
            "4) Total $": "426650"
        },
        {
            "1) Year": "2011",
            "2) Democrat %": "0.43",
            "3) Republican %": "0.57",
            "4) Total $": "482142"
        },
        {
            "1) Year": "2010",
            "2) Democrat %": "0.63",
            "3) Republican %": "0.37",
            "4) Total $": "278941"
        },
        {
            "1) Year": "2009",
            "2) Democrat %": "0.52",
            "3) Republican %": "0.48",
            "4) Total $": "317650"
        },
        {
            "1) Year": "2008",
            "2) Democrat %": "0.50",
            "3) Republican %": "0.50",
            "4) Total $": "767730"
        },
        {
            "1) Year": "2007",
            "2) Democrat %": "0.54",
            "3) Republican %": "0.46",
            "4) Total $": "981486"
```

REST API: Summary: Specific School, Specific Year

```
root@ip-172-31-62-153:~
}
[root@ip-172-31-62-153 ~]# curl http://ec2-54-87-186-104.compute-1.amazonaws.com:8080/donationsummaries/University_of_Chicago/2003
{
    "Summary of political contributions": [
        {
            "1) Year": "2003",
            "2) Democrat %": "0.74",
            "3) Republican %": "0.26",
            "4) Total $": "787700"
        }
    ]
}
[root@ip-172-31-62-153 ~]#
```