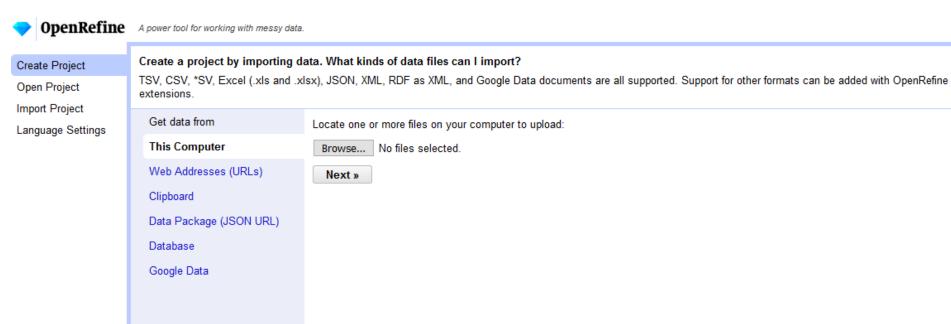
DATA CLEANING TUTORIAL

PETRA ISENBERG

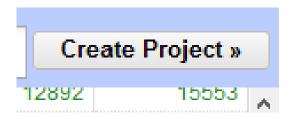
Information Visualization

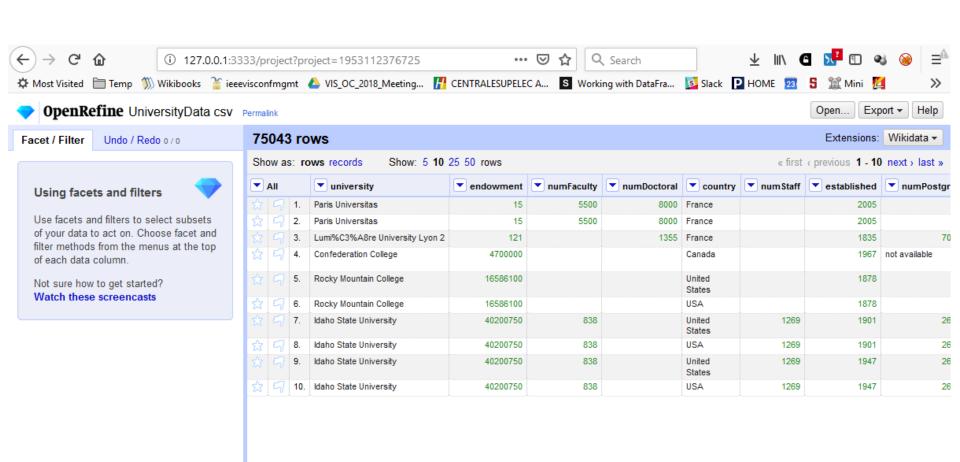
LOADING DATA



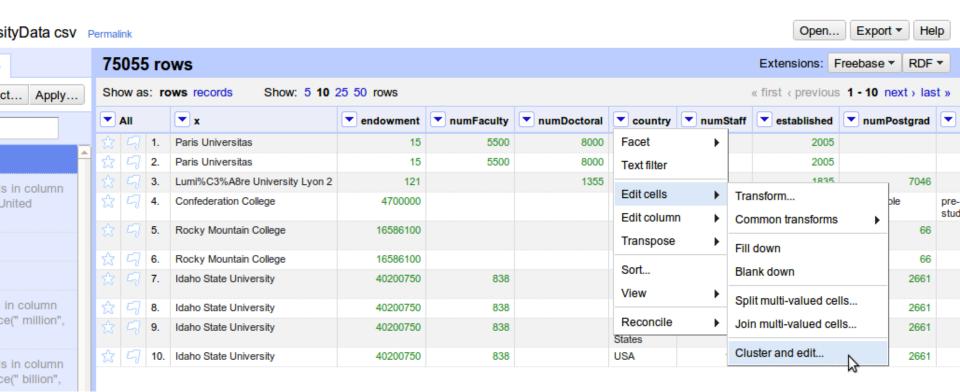
CONFIGURE PARSING OPTIONS

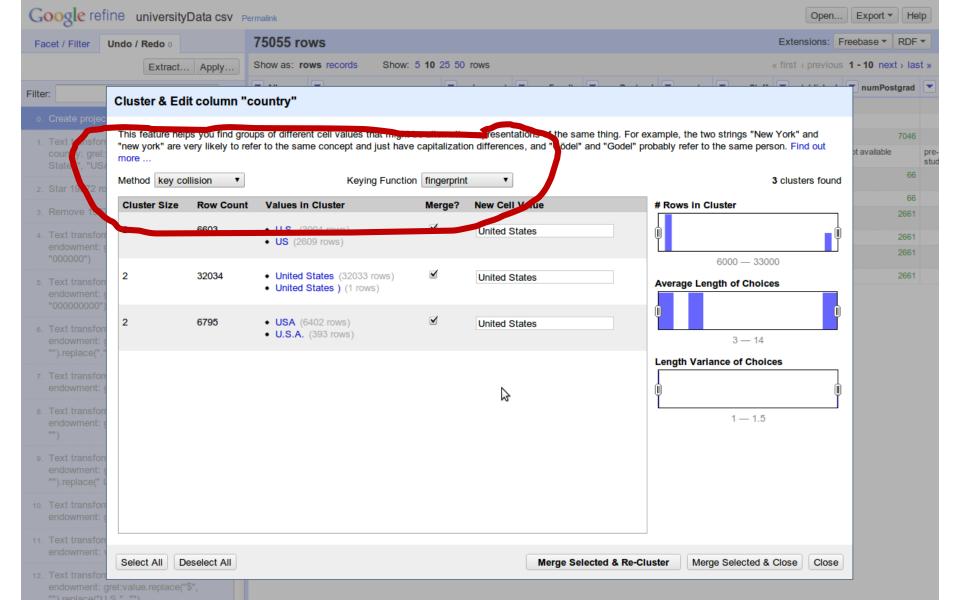
Parse cell text into numbers, dates, ...

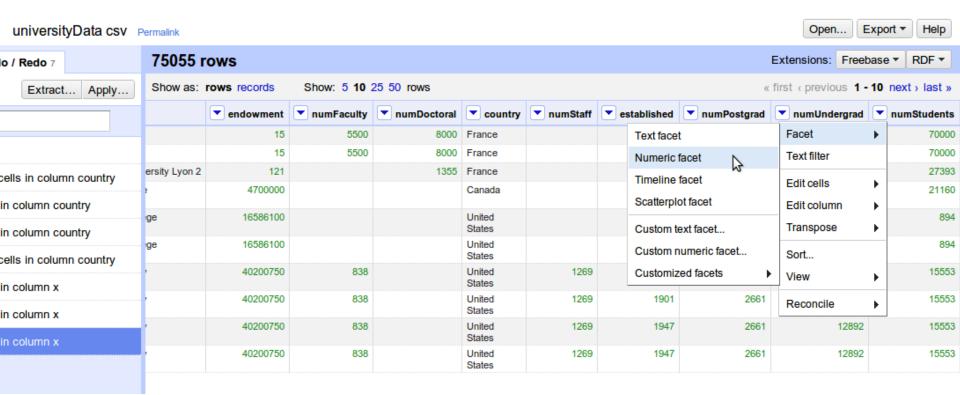




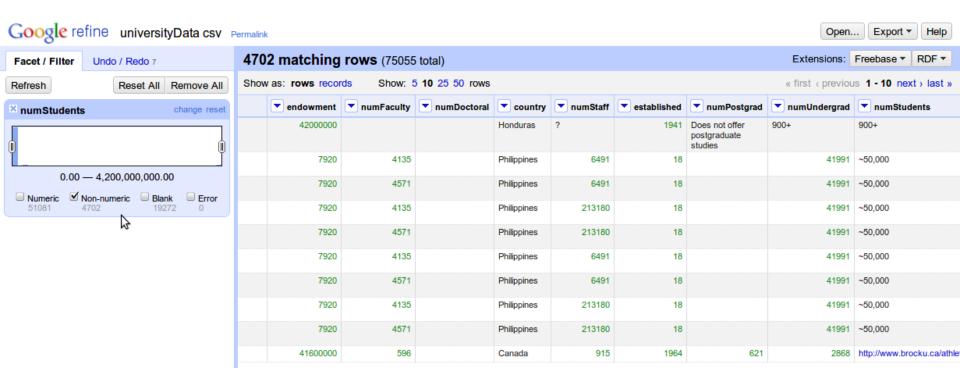
CLEAN UP COUNTY NAMES

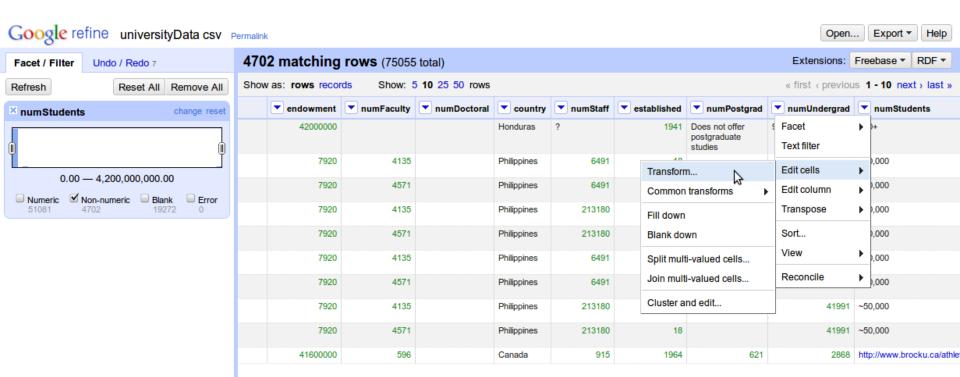


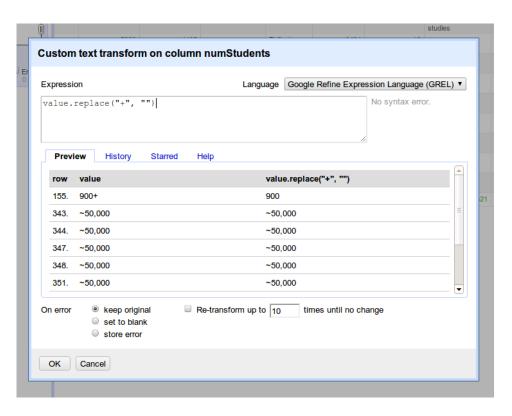




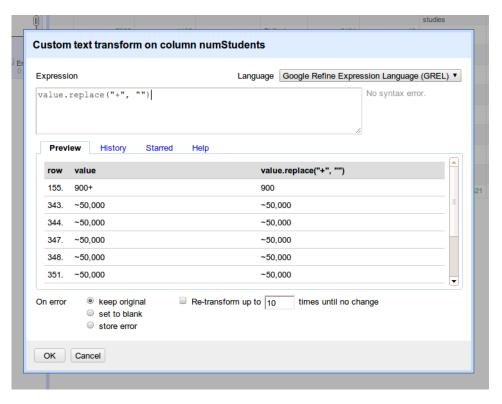
What do you notice?



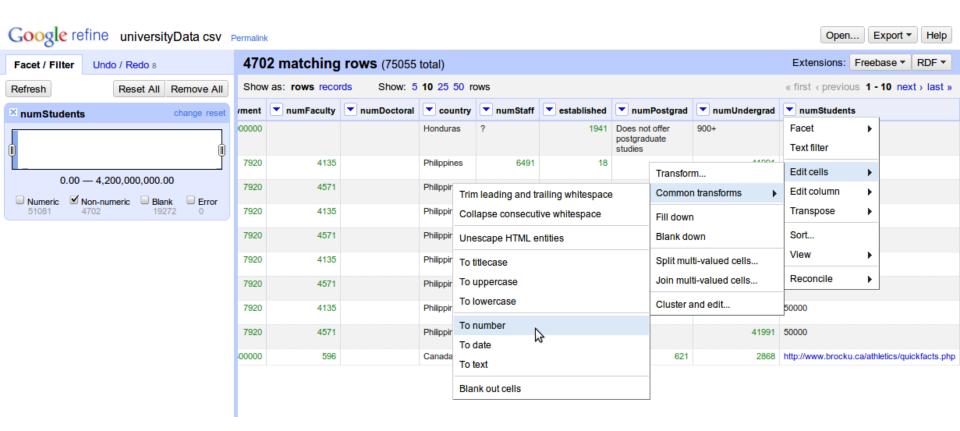




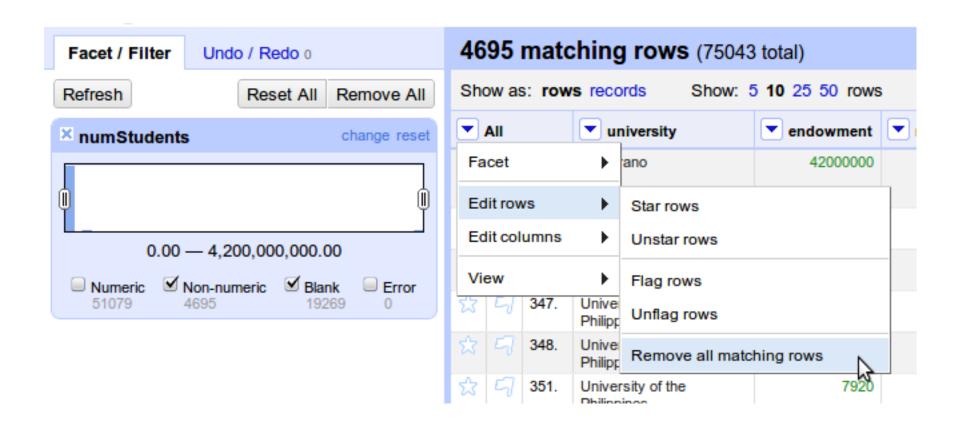
value.replace("+", "")



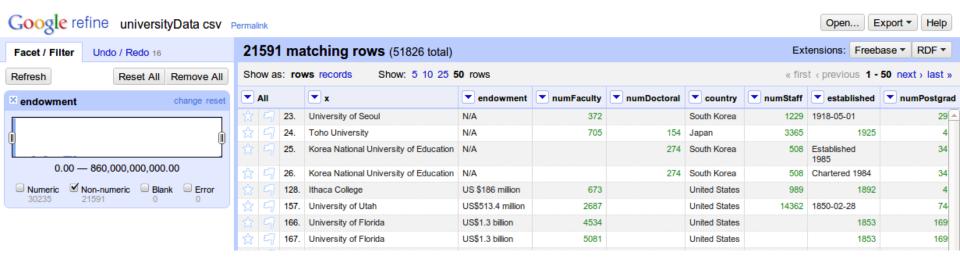
"Lumi%C3%A8re University Lyon 2" value.unescape('url')



REMOVING UNWANTED ROWS



ENDOWMENT



What do you notice?

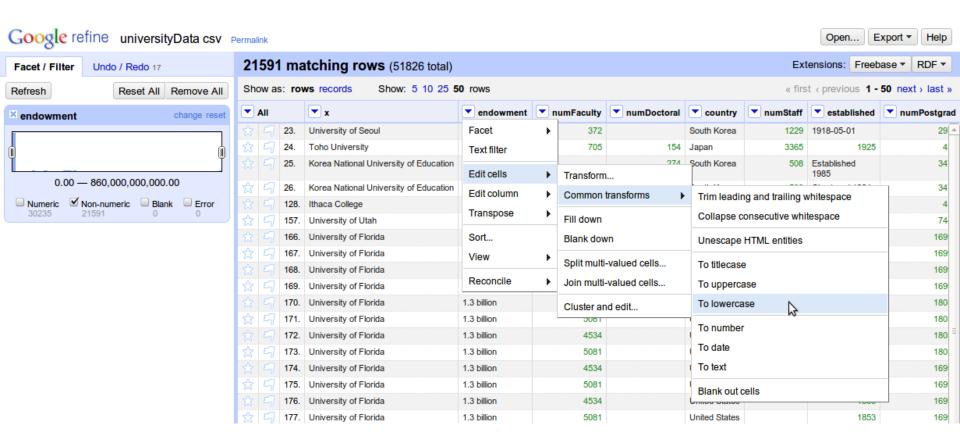
ENDOWMENT

Probably not a good idea, but for now we assume everything is in \$

-> Edit cells -> Transform

```
value.replace("US $","").replace("US$", "")
```

CONVERT TO LC



CONVERT TO NUMBERS

\$13.8 million

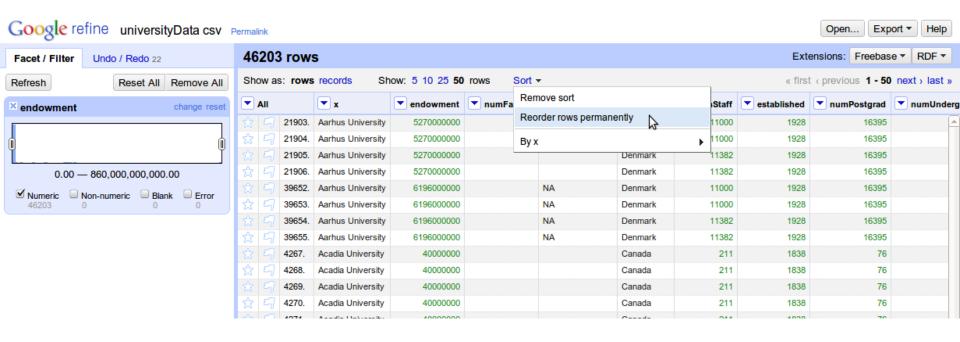
What could we do here?

```
toNumber(value.replace(" million", "")) *1000000
```

DEDUPLICATION

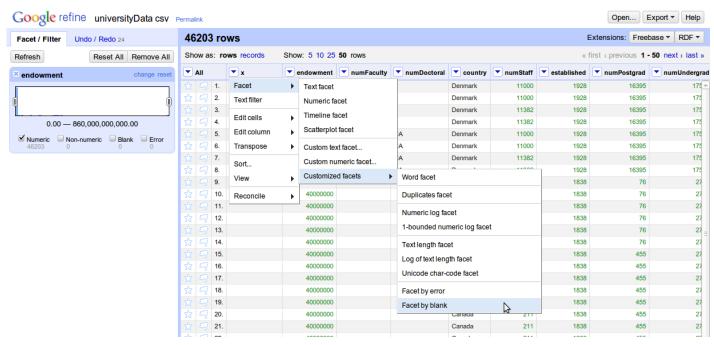
Dataset has a lot of duplicate rows

-> university names -> sort -> (image below)



DEDUPLICATION

Column with university names, **Edit cells -> Blank down**Then on the same column, **Facet -> Customized facets -> Facet by blank**



select **true**, then on the "**All**" column on the left, Edit rows -> Remove all matching rows