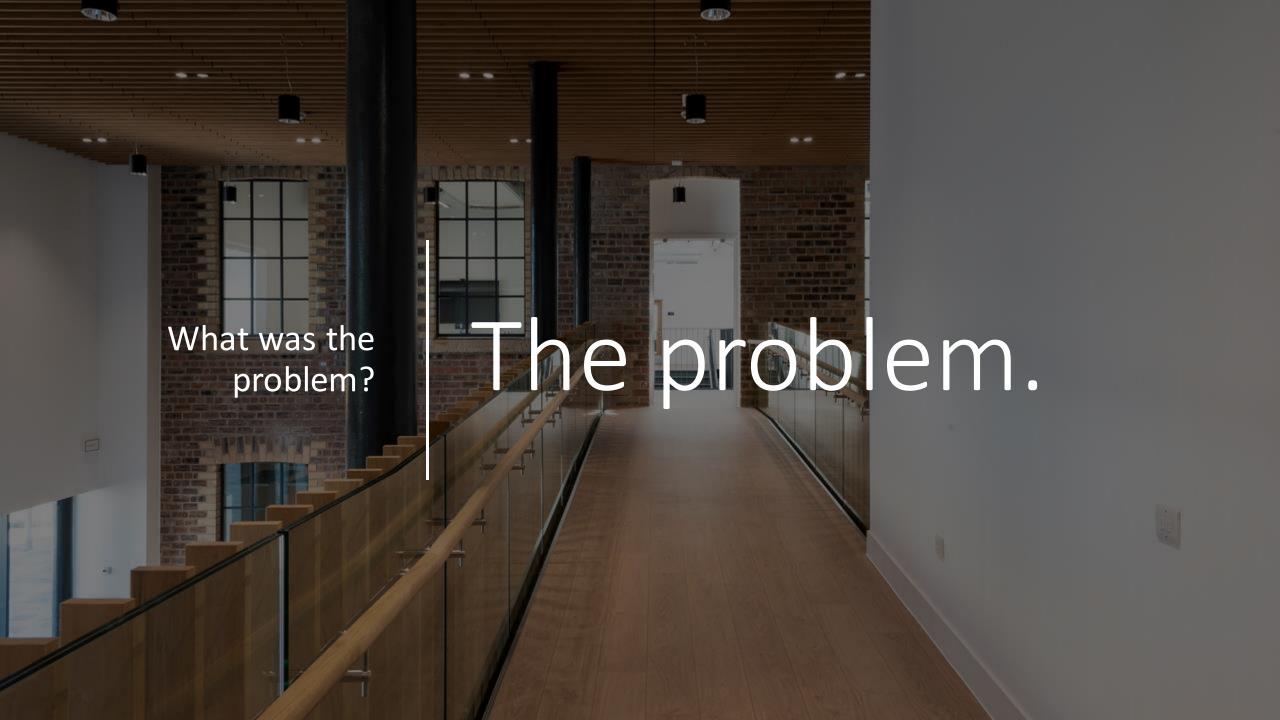
Registry Internship

Gregor Soutar





An Overview

- Two datasets: UCAS and SCL.
- If a school is not in the UCAS data, a school is created and given an internal ID.
- Over time, more and more international schools adopt UCAS and with that the UCAS data is updated.
- To keep the SCL data up to date, the UCAS data must be regularly imported (in theory).
- But with this comes the potential for duplication, schools with an internal ID may now have a corresponding UCAS ID.

An Example

A school that now has a corresponding UCAS code:

Data A: SCL		
School code	ES0341	
Full name	Escola IPSI De Barcelona	
Address Line 1	Carrer Del Comte Borrell 243	
Address Line 2		
Address Line 3	08029 Barcelona	
Address Line 4		
Postcode	8029	

Data B: UCAS (HCV)		
School	42231	
School Name	IPSI	
Address line 1	Comte Borrell, 243-249	
Address line 2	L'equerra De L'example	
Address line 3	Barcelona 08029	
Address line 4		
Postcode		



"WE FOUND BOTH OF YOU EQUALLY QUALIFIED FOR THE POSITION..."

Importing the new ucas record for this school would result in the school having two records associated with it, a duplicate. But how can duplicates, including obscure examples such as this, be found?



Registry Data Tool

 A terminal-based python program that can detect matching schools across UCAS, SCL data and more.

Match Records Across Files

- Can take any two delimited files and search for records that are present in both datasets.
- In the case of UCAS and SCL data, this option can be used to find schools in both datasets with different school codes.
- This option produces three files containing:
 - The potential matches
 - Schools in the first dataset only
 - Schools in the second dataset only
- There will be false positives/things missed, largely based on training.

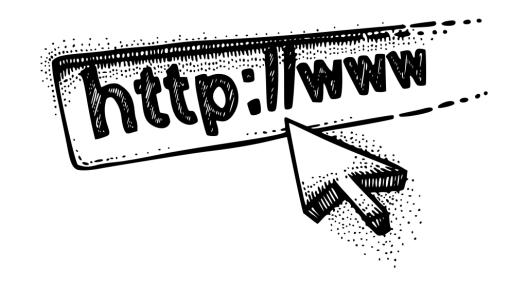
Find Duplicates Within a File

- Can take any delimited file and search for duplicates within itself.
- This option could be used to discover any duplicates currently in the SCL data.
- This option produces a single file containing the original data with an additional column, cluster-id.

Cluster-ID	Forename	Surname	Address Line 1
1	Gregor	Soutar	1 Planet Earth
1	Gregar	Souter	Planet Earth, 1
2	Another	Person	2 Planet Mars

Tests Links in a File

- Can take any delimited file and automatically test each link.
- Sends a request to a website. If the site responds with 200 this means 'OK', showing the link to work.
- If the sits doesn't respond with 200 (or at all) then the link is likely invalid.
- There will be many sites that work that are thought to be invalid by the program.



Check for differences Across Files

- Can take any two files that contain the same unique identifier for records and discover where differences lie.
- For example, you could compare the school status column between ucas and scl data and get a list of schools where that column has changed.
- A single file is produced by this option containing a list of the schools where differences were found.

Documentation

• Instructional documentation was produced to try and ensure the maintainability and usability of the program.

- It outlines:
 - Installation of the program
 - Usage of each of the four options
 - Configuration files
 - Training



