Obfuscate eScholar Templates .mdb

**Overview:**

This MS Access database contains a **FirstNames** table with 14185 unique first names, a **LastNames** table with 19554 unique last names, and a StreetNames table with 18690 unique numbered street addresses. It uses random number generation to completely obfuscate the PII in the StudentLite and StaffSnapshot templates and carries the new student and staff ID’s to all of the associated templates. A new District ID is generated for the entire set of templates.

**StudentLite template obfuscated fields:**

|  |  |
| --- | --- |
| DistrictID | “NY7” + 5 rightmost characters of the current District ID \* 12345 |
| StudentId | StudentID \* ASCII decimal value of 1st character of last name (rightmost 11 characters) |
| LastName | Random Lookup of last name using StudentID as seed |
| FirstName | Random Lookup of first name using StudentID as seed |
| Address | Random Lookup |
| ZipCode | Limited field to 5 characters to mask identity by Zip+4 |
| HomePhone | 555 area code + Random# \* large fixed integer |
| GuardianName | Last Name same lookup as student. First name is random lookup. |
| GuardianName2 | Last Name same lookup as student. First name is random lookup. |

**StaffSnapshot template obfuscated fields:**

|  |  |
| --- | --- |
| DistrictID | “NY7” + 5 rightmost characters of the current District ID \* 12345 |
| StaffID | 12345678 + TeachID \* ASCII decimal value of 1st character of last name (rightmost 9 characters) |
| Alt StaffID | Same as local ID above |
| LastName | Random Lookup of last name using TeachD as seed |
| FirstName | Random Lookup of first name using TeachID as seed |
| Work Email | First character lookup FirstName + first 7 characters of lookup LastName + "@SomeDistrict.org" |

**Limitations:**

1. If first character of Student/Staff last name changes between loads, the generated Student/Staff ID will be different.
2. Most fields except for the new ID’s will change every time the querys are run (which affects only the StudentLite and StaffSnapshot exports).
3. Student/Staff first name may not match gender.
4. Guardian 1 and Guardian 2 in StudentLite may appear to be same.
5. Import files need to be relatively clean, or MS Access import may fail.
6. Any records missing a Student/Staff ID will not be joined and will not be in the export files,
7. Imports and exports are a manual process, and require a minimal knowledge of MS Access to perform.
8. New StudentID is 11 characters long. This should not be a problem.
9. Because guardian names and student address is random, siblings will have different addresses and parents.