

STUDENT RECORDS RECONCILIATION HUB

Project Summary

Built a centralized reconciliation workflow to align admissions, enrollment, and results records before publication windows.

Work Context

At FUTA (Systems & Data Analyst / System Programmer, 2017-2023), this process reduced mismatch carryover between systems and improved publication accuracy for each cycle.

Current Implementation

I now maintain reusable reconciliation scripts and SQL comparison templates for repeatable source-versus-target checks.

Results and Impact

- Records reviewed per cycle: 4K+
- Duplicates flagged and resolved pre-publish: 1.2%
- Source systems reconciled: 3

Deliverables

- Reconciliation scripts:
<https://github.com/toughdave/scripting/tree/main/scripts/python/reconciliation>
- Reconcile workflow: 'scripts/python/reconciliation/reconcile_students.py'
- SQL diff template: 'scripts/sql/templates/sql_reconciliation_diff_template.sql'

Technical Notes

- Matching controls include ID alignment, cross-field validation, and mismatch classification.
- Output queues support distributed correction and final release readiness checks.