

ACADEMIC RESULTS ANALYTICS DASHBOARD

Project Summary

Unified admissions, examination, and results processing into a reporting workflow that reduced reconciliation overhead and improved release readiness for leadership reporting.

Work Context

At FUTA (Systems & Data Analyst / System Programmer, 2017-2023), this workflow supported admissions and results publication cycles where score mismatches, duplicate records, and eligibility gaps had to be resolved before official release.

Current Implementation

I continue this workflow in reusable assets under the scripting repository and run validation-first refresh routines before report packaging.

Results and Impact

- Records audited: 4K+
- Faster reconciliation: 35%
- Leadership dashboards delivered: 3

Deliverables

- SQL validation scripts: <https://github.com/toughdave/scripting/tree/main/scripts/sql>
- MySQL integrity check: 'scripts/sql/mysql/mysql_validate_results_integrity.sql'
- PostgreSQL integrity check: 'scripts/sql/postgres/postgres_validate_results_integrity.sql'
- Power Query quality template: 'powerbi/powerquery/powerquery_data_quality_template.pq'

Technical Notes

- Validation sequence: null checks, duplicate checks, eligibility checks, result consistency checks.
- Reporting views are structured for cohort, session, and department drill-down.