

# Student Profile

360 degree view of student performance and trends from various metrics, tests and surveys





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### PROBLEM

Our client had a need to report on students data across various datasets captured within a school or via external agency including NAPLAN, Academic Grades, PAT, Attendance, Wellbeing surveys, Pastoral Care notes, EAL, NCCD and student demographics.

The client wanted to be able to colour code (RAG) these KPIs for each student as well as indicate trends from historical data in order to identify students that might warrant further investigation.

Data sources were coming from hundreds of schools individual reporting systems and instances. Not all schools use the same platforms and provide data in varying formats.

Security was a key constraint with hundreds of schools needing to use the same report but only see their own data. Ease of management was a consideration so not needing to manage hundreds of roles in PBI and user assignment.

### SOLUTION

Data was extracted from the various school systems and consolidated extracts were provided by external agencies and landed in the data warehouse.

Power BI was used to consolidate and model the schools datasets and create the student performance KPI and trends.

Custom RAG parameters were setup to enable schools and individuals to change the colour coding scales of the KPIs to suit their needs. Users could save their custom settings for the next time they use the report and also had the option to reset back to default RAG parameter values.

A list of students with KPIs were visualised in a matrix so schools, year level coordinators and class teachers could filter down to their respective or interested cohort. Hovering over the individual KPI would show the current and historical values for that student to help understand trends.

Drill-through capability was implemented to student profile which summarised the 360 degree view of the individual student and all their KPIs. Further drill-through into the full details of each dataset was possible.

Data-driven Row Level Security was implemented using Azure AD groups so schools could only see their own data.

### BUSINESS BENEFITS

Ease of reporting for schools and teachers with consolidated automated data in near real-time across all the student data collections.

Ease of enterprise reporting for client consolidating schools with disparate data and unique systems.

Cohort summary to easily identify those students who might need further assistance or at the other end, gifted students based on RAG KPI and Trend icons.

Solution has already been used to identify lists of students who should be assessed for support needs based on those with similar profiles already on support.