Education Analysis Performance Dashboard

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Project Name : Education Analysis Performance Dashboard

📘 Project Overview

This project analyzes student performance, registration behavior, assessment outcomes, and engagement across multiple modules and regions. Using interactive dashboards, it provides insights into how students study, submit assessments, engage with the virtual learning environment (VLE), and progress toward final results. The analysis highlights key trends such as high assessment activity, moderate average scores, significant withdrawal rates, and varying engagement levels across modules and student groups. Together, these findings help identify areas for improving student support, retention, and academic performance.

Skill :

1. Student Population & Registration

The dataset includes ~28K total students with ~29K active registrations, indicating many students register for multiple modules.

2. Performance Overview

The overall pass rate is about 41%, with an average assignment score of ~75.8.
Some modules (e.g., AAA, EEE) show higher pass rates, while others lag behind.

3. Engagement (VLE Activity)

Students generate ~40 million clicks in the VLE, averaging 1.5K clicks per student.
Module FFF consistently shows the highest engagement across activity types.

4. Assessment Insights

There are 195 assessments across 7 modules.
CMA assessments tend to have the highest average assignment scores, while Exam assessments score lower.Submission volume grows steadily over time.

5. Student Demographics & Outcomes

Final results distribution shows:
Pass: ~38%
Withdrawn: ~30%
Fail: ~22%
Distinction: ~9%

DataSource: : [Education Analysis Link]

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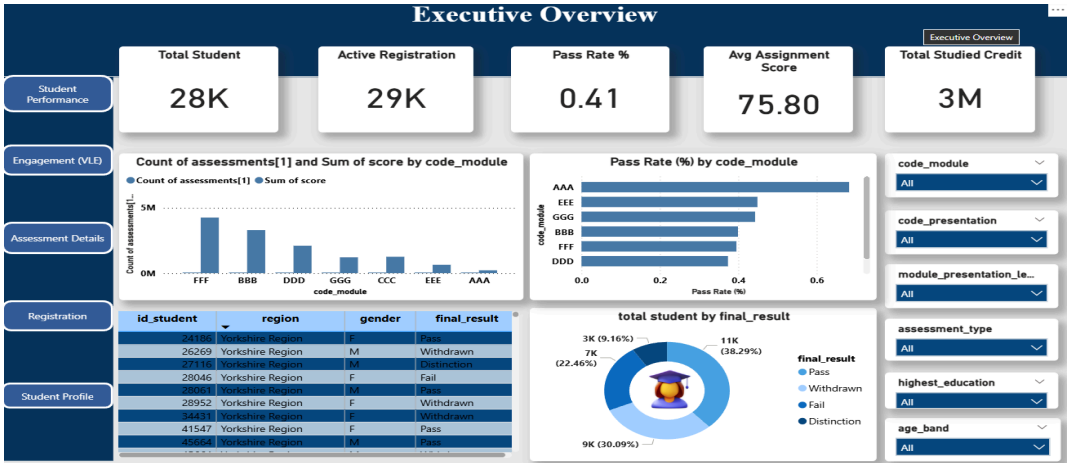
🔑 **Key Point :**

28K students, 29K active registrations, 3M credits studied
Pass rate: 41%, Avg assignment score: 75.8
Module FFF has the most assessment.Module AAA has the highest pass rate

Screenshot-



📊 **Results :**

Pass (38%), Fail (30%), Withdrawn (22%), Distinction (9%)

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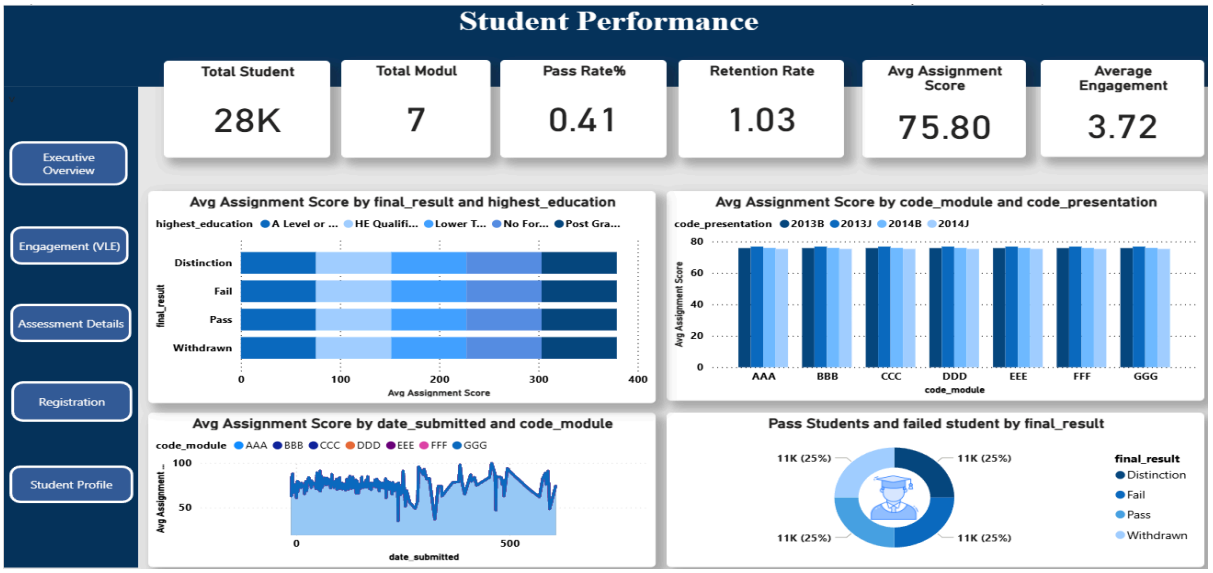
🔑**Key Point :**

28K students, 7 modules
Pass rate: 41%
Retention rate: 1.03
Avg assignment score: 75.8
Average engagement: 3.72
Assignment scores are fairly consistent across modules (AAA–GGG).
Higher education levels tend to correlate with higher assignment scores.

Screenshot-



📊 Result :

Pass: ~25%
Fail: ~25%
Withdrawn: ~25%
Distinction: ~25%(All categories appear evenly distributed at ~11K each.)

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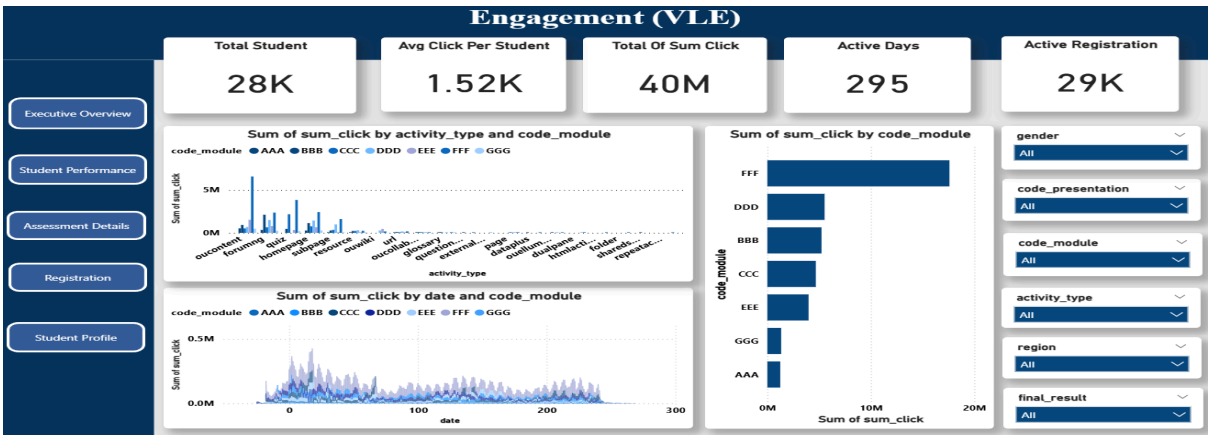
🔑 Key Points

28K students with 29K active registrations
Avg clicks per student: 1.52K
Total clicks: 40M Active days: 295
Most engagement comes from module FFF, followed by DDD and BBB Engagement peaks around quiz, forum, homepage, and resource activities Click activity shows steady engagement over the course timeline for all modules

Screenshot-



📊 Result

FFF is the highest-engaged module (largest click volume)
DDD, BBB, and CCC show moderate engagement
EEE, GGG, and AAA show lower engagement overall

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🔑 Key Point :

Total assessments: 195

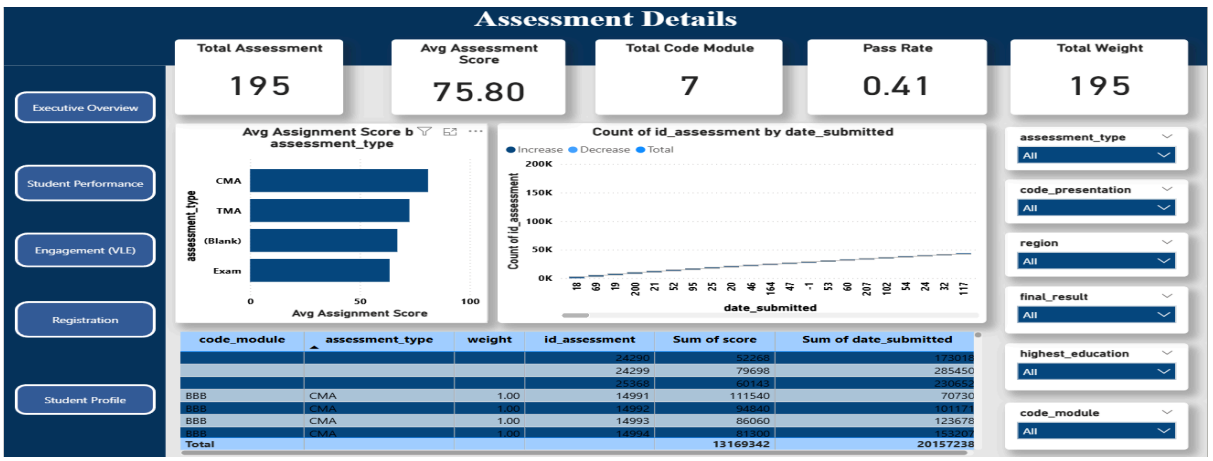
Average score: 75.8

Pass rate: 41%

Most successful assessment type: CMA

Assessment submissions: steadily increasing over time

Screenshot-.



📊Result :

Students score well on average (75.8), but the pass rate is low (41%).
CMA assessments perform the best, and assessment submissions steadily increase over time.
Total assessments: 195.

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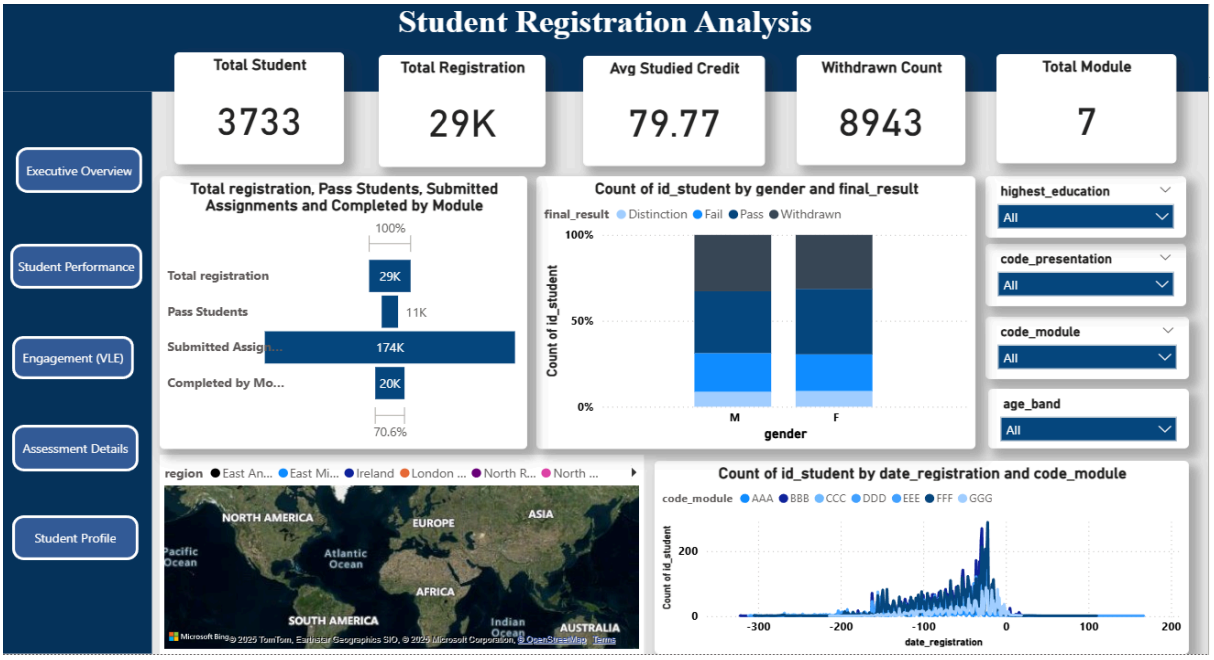
🔑 Key Point :

- Total students: 3,733
- Total registrations: 29K
- Avg studied credits: 79.77
- Withdrawn count: 8,943
- Total modules: 7
- Pass students: 11K
- Assignments submitted: 174K
- Completed by module: 20K
- Gender outcomes: Both male and female students show similar pass/fail/withdrawn patterns.
- Registrations over time: Peaks sharply before course start across all modules.

Screenshot-



📊Result :

Students register heavily (29K) but many withdraw (8,943). Average study credit is strong (79.77). Out of 3,733 students, only about 11K registrations lead to passing outcomes.

Assignment submission is high (174K), but final completion is much lower (20K). Gender performance patterns are similar.

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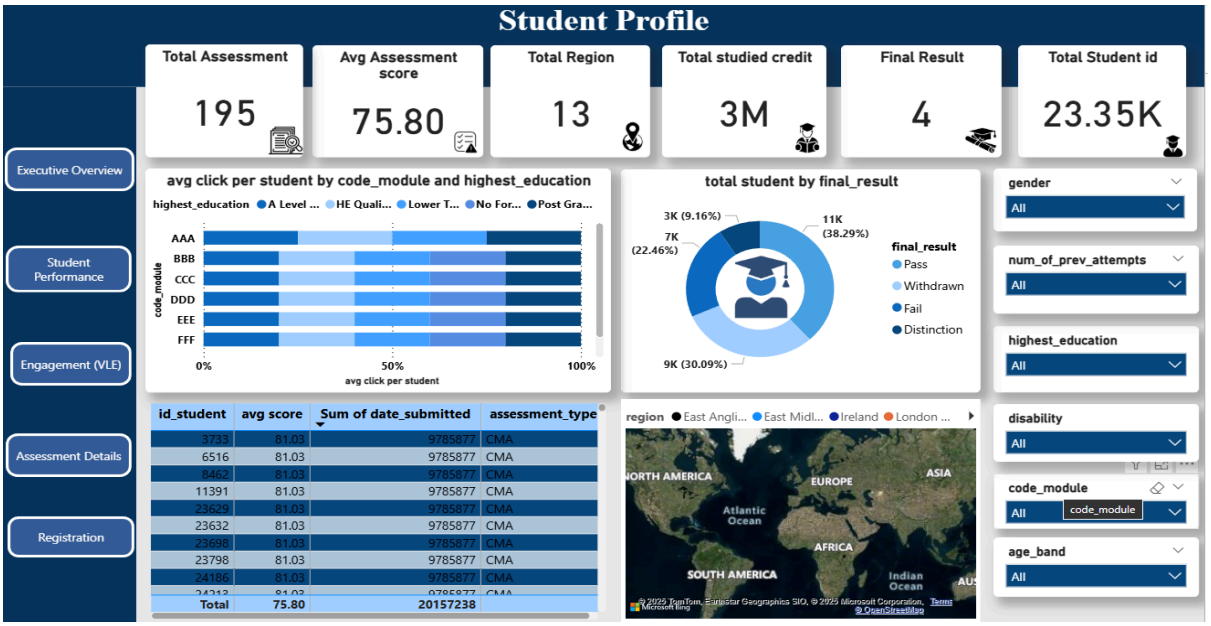
🔑 Key Point :

Total Assessments: 195
Average Assessment Score: 75.80
Total Regions Represented: 13
Total Studied Credits: 3M
Total Students: 23.35K

Screenshot-



📊 Results :

Pass: 11K (38.29%)
Fail: 9K (30.09%)
Withdrawn: 7K (22.46%)
Distinction: 3K (9.16%)
Engagement: Higher average clicks per student in modules CCC, DDD, EEE, and FFF.
Average score trend: Most students listed show scores around 81, consistent with the overall average.