Moodle Analytics Software - AAT

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In online education, educators and learning designers typically don’t get much feedback on what students are actually doing in a course and whether or not their teaching strategies and course designs are successful/helpful for students.

Learning Management Systems (LMSs) generate a lot of data

However, when looking at the data in the database, it is very difficult to get anything useful out of these data
General Aim of AAT

- Provide users with easy and comprehensive access to complex educational log data
  - Easy: Users do not need to have computer science knowledge
  - Comprehensive: users should have access to anything they are interested in

General design decisions:
- Allow users to ask “questions” to the data
- Allow users to start with easy queries and then build upon them
- Allow users to get information across courses and departments/faculties
- Work for different LMS and different versions of LMSs
- Work with several databases
Benefits

- Help to get better understanding on what students are actually doing in a course
- Facilitate learning about teaching strategies and learning designs
Procedure

Building a profile

- Select a learning system to connect to
- Create/Select a data set (courses)
- Create/Select patterns (queries)
Demo

AAT - Academic Analytics Tool

Welcome to Academic Analytics Tool

This tool allows users to analyze their LMS data. If this is your first time using this tool read the tool’s documentation by clicking the “Usage Guide” link in the top-right corner.

As most other online systems, AAT is keeping track of users’ actions in the tool. By looking in and using this tool, you agree that this data can be used in anonymous form for research purposes (i.e., to analyze whether AAT is user-friendly, useful and effective in supporting its users). It analyzes what can be learned about the effectiveness of courses, teaching strategies and student behaviors that impact (or not impact) on learning outcomes.

Profile Manager -- List of All Your Profiles

Name
Analytics on Quizzes
Exercises
Undergraduate courses with focus on collaboration

Operations
New Profile
Edit Profile
Delete Profile

Step 2 -- Building the Analysis

What type of analysis do you wish to perform?

- Analysis with one value as result
- Analysis with one value as result

I would like to see the
- SUM
- AVG
- MIN
- MAX

for every

I would like to refer to this results:

Analysis Name (*): average_quiz_grade

Analysis Description:

Perform Analysis

Demo
Questions

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