CASE STUDY: University Exams



UNIVERSITÀ DI PISA

A university plans to build a data mart that would help them in analyzing the exams performance of the students in master degree programs in different academic sessions.

Courses have a code, which is unique, a name, whether it is mandatory or not, the teacher and department name, the credits and the semester in which a course is offered.

Students have a number, which is unique, the gender, the university name that awarded the bachelor degree, the name of the master degree program, the year of enrollment.

Exams have a grade, a value between 1 and 31, considered passed if the grade is greater than 17, the exam session, the academic year. Failed exams are registered too.

- 1. Number of exams passed, and number of exams failed, by course name, by academic year, and by session.
- 2. Number of exams failed, by the course name, by academic year, by session, and by bachelor university name.
- 3. For a specified master degree program and student's enrollment year, the average grade of passed exams and the total number of credits given, by student gender.
- 4. For the current academic year, average exams grade, number and the percentage of students who passed the exam, by the course name, and by session.
- 5. For a specified master degree program and courses with a number of exams passed of less than 3, the number of exams, by the course name, by academic year.

DW: Data Models, A. Albano