Exercises 5 – SQL

Bases de Dados, FCT-NOVA

Ano letivo 2015/16

Execute an SQL command over the university database used in the labs, for each of the following queries:

1. What is the average age of all students?

2. How many students are there in the database?

3. In how many different cities do students live?

4. How many male and female students are there in the database?

5. How many students are for each age?

6. Which cities have at least 2 students?

7. What is the name of the oldest student?

8. What are the average marks of each student?

9. What are the names of students whose average is greater than 12?

10. List the various categories of professors.

11. What are the categories that have no professor?

12. In the Eng. Informática programme, for how many courses codes does each course give precedence to?

13. The same as the previous query, but now showing the courses name.

14. What are the names of the students that did not follow at least one precedence, and in which courses?

15. What are the students whose first course in which they enrolled in was Bases de Dados? And in Introdução à Programação?

16. What were the first students enrolling in Bases de Dados?

17. What students ever enrolled in courses offered to the Matemática programme?

18. And what are the students that never enrolled in courses offered to the Matemática programme?

19. What was the first course in which each student enrolled in?

20. Without using the "intersect" operator: What are the names of professors that are also students?

21. What are the professors with a salary smaller than the salary of at least one professor of the Dep. Matemática?

22. What are the professors with a salary smaller than the salary of all professors of the Dep. Matemática?

23. Which students have more enrolments than any student of Eng. Electrotécnica?

24. Which students are enrolled in all the courses of the 7th semestre of their programme?

25. Which students have been approved in all the courses of the 1st semestre of their programme?

26. Which students have been approved in all the courses of their programme?