## Exercises SQL DML. Databases. 2015/2016

Le us consider the database AllTheBooks and specify the following queries in SQL.

- 1. List of books, the publication year of each of them and their authors, ordered by publication year.
- 2. List of books that were published before 01-01-2000.
- 3. List of clients that have bought at least one book.
- 4. List of clients that bought the book whose ISBN= 4554672899910.
- 5. List of clients whose name contains 'Jo' and the books that they have bought.
- 6. List of clients that have bought at least a book whose price is greater than 10€.
- 7. List of clients that have placed more than one order in the same date.
- 8. List of clients and dates in which they have placed orders that have not been sent yet.
- 9. List of clients that have not bought books whose price is greater than 10€.
- 10. List of books whose sale price is greater than 30€ or that were published before 2000.
- 11. List of books and amount of copies of each of them that have been sold.
- 12. List of clients and the total amount that they have spent in the bookstore.
- 13. Profits obtained from sales of books.
- 14. Total amount of each order (ordered by date) that have been placed after 01/12/2011 and have not been sent yet.
- 15. Detail of orders (Order number, client name, title, total amount, unit price and total).
- 16. Orders whose total amount is greater than 100€.
- 17. Orders and the total amount of each of them that contains more than a book (title).
- 18. Orders and the total amount of each of them that contains more than 4 copies.
- 19. List of the most expensive books.
- 20. List of books that have not been sold or that have been sold but the profit per copy is less than 5€.
- 21. List of clients that have bought more than one copy of a book sometime.
- 2. Le us consider the databases FlyWithOther and specify the following queries in SQL.
  - 1. List codes and names of pilots that are certified to pilot Boeing aircrafts.
  - 2. List codes of aircrafts that can fly from Los Angeles to Chicago without refueling.
  - 3. List pilots that have a certificate to pilot aircrafts with a range of 3,000 km. but cannot pilot Boeing aircrafts.
  - 4. List of employees that have the highest salary.
  - 5. List of employees that have the highest number of certificates.
  - 6. List of employees that have at least 3 certificates.
  - 7. List of names of the aircrafts such that all the pilots that can pilot them have a salary greater than 80.000€.
  - 8. For each pilot that can pilot more than 3 aircrafts, show the code of the pilot and the distance that these aircrafts can cover.
  - 9. List the names of the pilots whose salary is less than the cheaper flight from Los Angeles to Honolulu.
  - 10. Show the difference of the avarage salary of all the employees (pilots included) and the average salary of the pilots.
  - 11. List of the names and salaries of the employees (no pilots) whose salary is greater than the average salary of the pilots.
  - 12. List the names of the pilots that can pilot ONLY aircrafts with a range greater than 1000Km.

Note: Table Employee contains data of both pilots and other workers. Only pilots can have certificates for piloting aircrafts