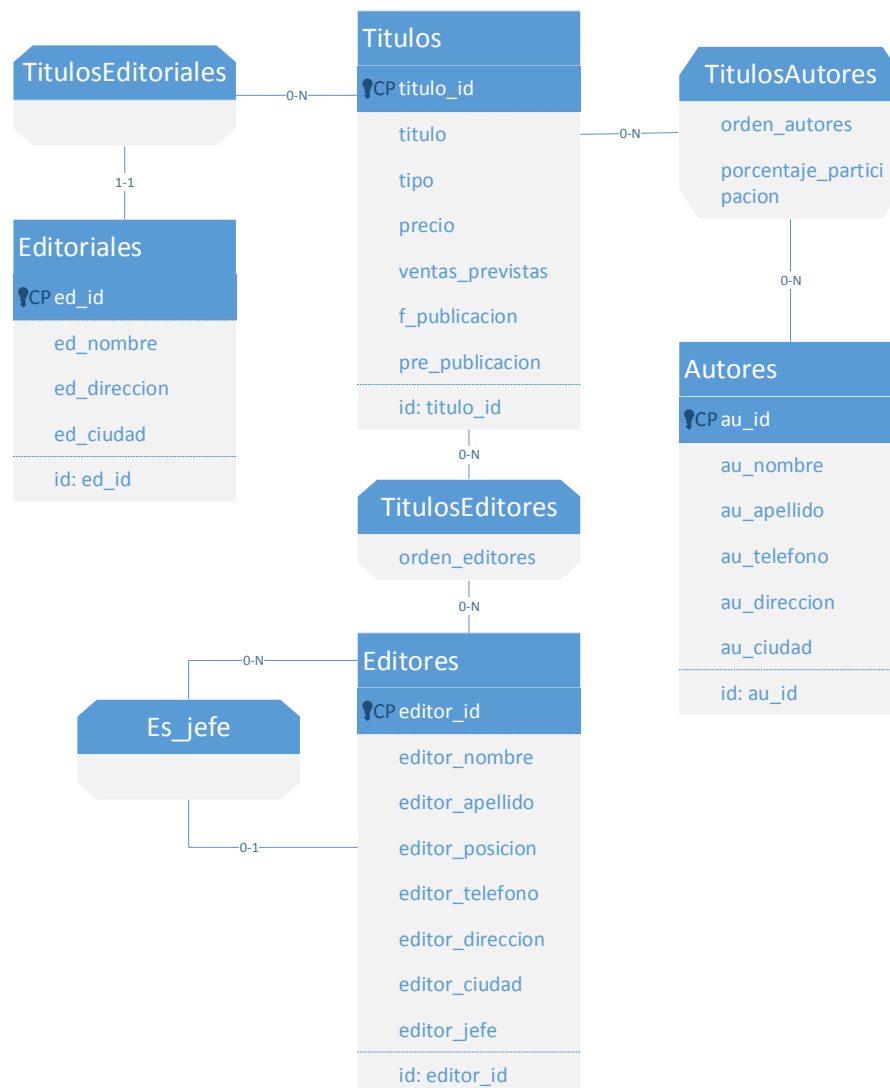# Lab Session 3

Objectives

- To grasp the basic concepts of the SQL language.

Environment

The materials are in the *lab3* folder. Copy this folder into the BBDD folder from lab session 1.

Develop the following SQL queries for the database depicted with the E-R model above:

1. Retrieve a relation with name and surname columns with the name and surname taken from the AUTORES relation.

2. Retrieve a relation with two columns, one for the titles, and one for the expected revenue for each title. The revenue is calculated as expected_sales times price of the title.

3. Show titles with expected sales between 200 and 5000 units (copies).

4. Show name and surname of authors with a null telephone number.

5. Show the title id, title and expected_sales for titles with type BD (Databases) or PROG (Programming). Order descendingly by price. *Express the query in two different ways.*

6. Authors with a telephone number starting with '456'.

7. Average price for titles in relation TITULOS. Average price for titles with BD type. *Express the query in two different ways.*

8. Number of titles of each publisher (editorial). Number of titles belongin to each type, per publisher.

9. Number of copies in stock for each type of title. Ignore null values.

10. Average price for each type of title with a publishing date later than year 2000.

11. Number of copies in stock for each type of title, but only if it is greater than 1.

12. Average price for each type of title, but only if it is greater than 35.

13. Average price for the titles of a publisher, but only if the publisher id is greater than 2 and the average price is greater than 60. The result should be ordered ascendingly by publisher id.

14. Name, surname and editor_order for the '1' title.

15. Names of the editors and publishers that are in the same city.

16. Titles of BD books, with the names of the authors and author_order.

17. Name and surname of editors with the name of his chief editor.

18. Data from authors (au_id, au_nombre y au_apellido) that have the same surname.

19. Names of publishers that publish PROG titles. *Express the query in two different ways.*

20. Title and price of books having the same price as the cheapest book. Same with the more expensive.

21. Name and city of authors that live in the same city as 'Abraham Silberschatz.'

22. Name and surname of authors that are both individual authors and coauthors.

23. Types of books that are in common for more than one publisher. *Express the query in two different ways.*

24. Types of books with a maximum price at least twice the average price of that type.

25. Books that have a greater pre-publishing than 'Prentice-hall'' publisher greatest pre-publishing.

26. Types of book published by a publisher established in a city starting with 'B'.

27. Names of publishers that do NOT publish BD type books. *Express the query in two different ways.*