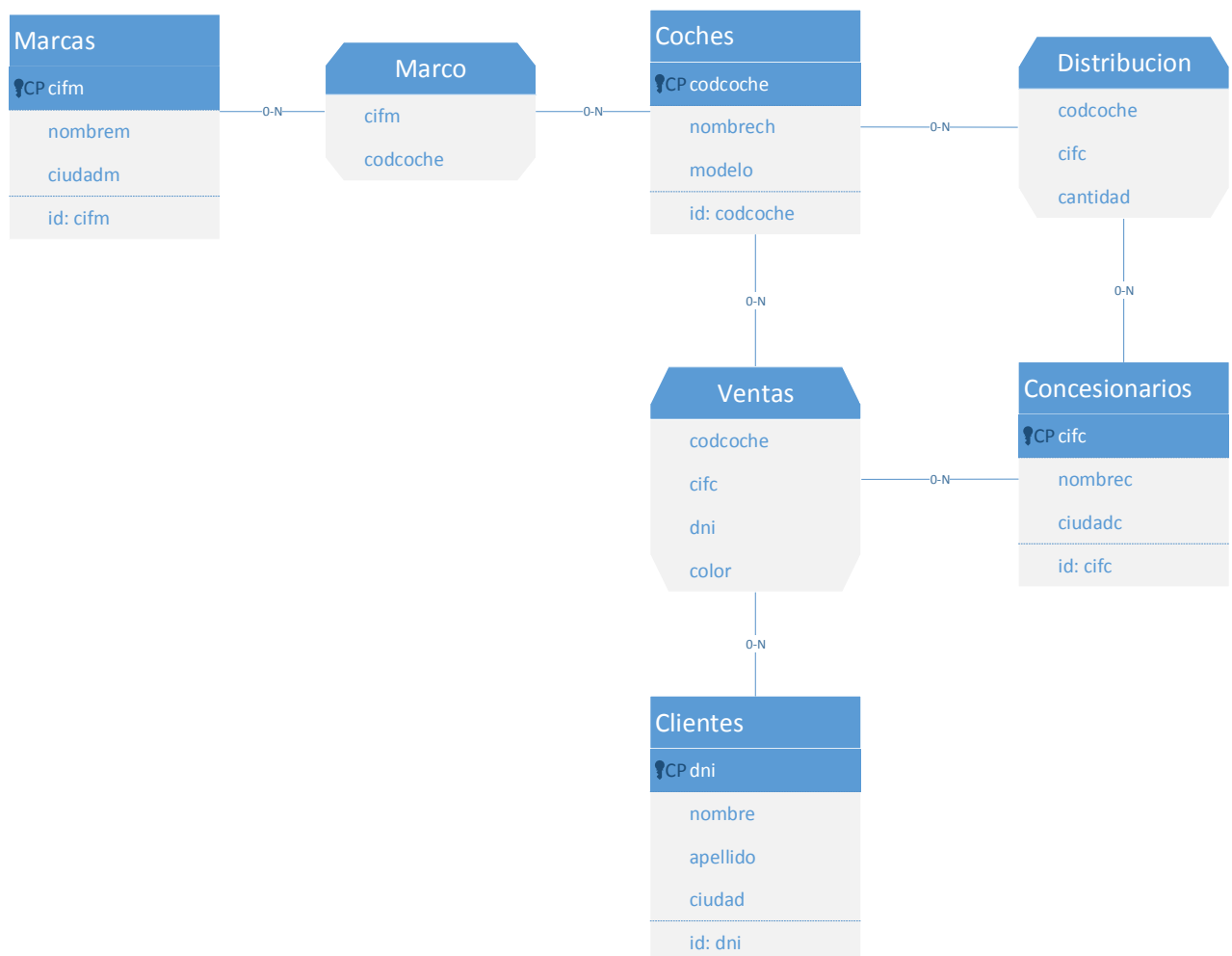# Lab Session 2

Objectives

- To grasp the main SQL query concepts
- To get further knowledge on the development of JDBC applications.

Exercise

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

1. Tuples from the MARCAS relation having 'Barcelona' in the ciudad attribute.

2. Tuples from the CLIENTES relation for 'Madrid' clients with 'garcía' surname. The same for clients having either one or the other condition.

3. Get a relation having the values of the surname and city attributes from the CLIENTES relation.

4. Get a relation showing the surnames of the CLIENTES from 'Madrid'.

5. Names of car makers having 'gtd' models.

6. Names of car makers that have sold red cars.

7. Names of cars having the same models as the car named 'Córdoba'.

8. Names of cars NOT having a 'gtd' model.

9. Get all tuples from the CONCESIONARIOS relation.

10. Pairs of values: CIFM from the MARCAS relation, and DNI from the CLIENTES relation belonging to the same city. The same for the ones not belonging to the same city.

11. Codcoche values for the cars stocked in any dealer in 'Barcelona'.

12. Codcoche values for cars bought by a 'Madrid' client in a 'Madrid' dealer.

13. Codcoche values for cars sold in a dealer in the same city as the buying client.

14. Pairs of carmakers (names) from the same city.

15. Get all tuples from the CLIENTES relation belonging to Madrid clients.

16. DNI of the clients that have bought a car in a Madrid dealer.

17. Colours of cars sold by the 'acar' dealer.

18. Codcoche of the cars sold by any 'Madrid' dealer.

19. Names of clients that have bought any car in the 'dcar' dealer.

20. Name and surname of the clients that have bought a 'gti' model with 'blanco' colour.

21. Name and surname of clients that have bought a car in a 'Madrid' dealer that has 'gti' cars.

22. Name and surname of clients that have bought (at least) a 'blanco' and a 'rojo' car.

23. DNI of clients that have only bought cars at the dealer with CIFC '1'.

24. Names of the clients that have NOT bought red cars at 'Madrid' dealers.

25. For each dealer (cifc), show the total amount of cars stocked.

26. Show the cifc of dealers with an average stockage of more than 10 units (show that average as well).

27. Cifc of dealers with a stock between 10 and 18 units inclusive.

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28. Total amount of Madrid car makers (maker names).

29. Name and surname of clients that have bought a car in a Madrid dealer, and have a name starting with j.

30. List clients, order by name ascending.

31. List clients that have bought a car in the same dealer as client dni '1'. Same with dni '2'.

32. Dealers having an average stockage greater than the average stockage of all dealers together.