

Database Queries with SQL

Consider the following set of questions in Natural Language about BD searches we just created about the video club. Write queries in SQL that translate those questions and get the corresponding answers.

- 1 What are the names of all partners?
- 2 What are the names and birth dates of the the partners (change the heading to the birth date)?
- 3 What are the member numbers, address and telephone numbers of the partners?
- 4 What are the numbers and names of male partners?
- 5 How many members there are in the video-clube?
- 6 How many female members there are in the video club (change the heading of the count to "number of ladies")?
- 7 How old is each member (change the heading to "age")?
- 8 How old is each male member over the age of 40 (change the heading to "age")?
- 9 How old is each woman member aged 20-30?
- 10 How many members (men) and how many members (woman) are there, ie how many members are there by sex?
- 11 Who is the oldest member?
- 12 Who is the youngest member?
- 13 For each movie (film), what is its name and what is the type (género) of it?
- 14 For each movie (film), what is its name and what is its Publisher (editora)?
- 15 For each type (género), how many movies are there in the video club (please give the name of the type)?
- 16 For each type (género), how many movies are there in the video club (please indicate the type name and sort the list by descending order)?
- 17 For each movie, how many copies are there, rented or not (indicate the name of the movie)?
- 18 What are the names of comedy movies ("cómico")?

- 19 Which types (género) for which there is exactly 1 movie in the video club (indicate the type's name)?
- 20 Which types (género) for which there are more than 2 movies in the video club (please indicate type's name)?
- 21 Who are the actors in the movie "The Godfather III"?
- 22 What are the names of the actors (do not repeat names) that have already entered in films made by Copolla (Copolla, although it is a sufficiently discriminating name, is only one of the names of this director). ?
- 23 Which actors (the names without repetition) that have entered any of the movies: The Godfather I, II or III? (Use the *like* operator combined with the % character).
- 24 Which actors have already performed in at least 2 different films?
- 25 What is the other movie that any of the actors in the movie 'Shine a Light' also performed?
- 26 What is the average number of movies rented per member?
- 27 Which movies were never rented?
- 28 Which movies were not rented this month?
- 29 Which movies of type (género) "acção" were not rented this month?
- 30 Which is the most rented movie ever?
- 31 What is the movie with the highest number of directors (realizador)?
- 32 Who is the member that has rented more movies than any other member?
- 33 Who are the members that have not yet delivered the rental movies?
- 34 Which members and films associated to overdue returns for more than a month?
- 35 Who are the members that have seen movies of all types (género)?
- 36 What is the debt of member number N?
- 37 How much money is associated to rentals of the current month, up to the present date (create the views you find convenient)?
- 38 Create a view that reports to each member, their name and the number of fines they have already paid. The list must only contain members with non-zero fines and must be ordered by the number of fines in descending order.
- 39 On average, what is the type (género) of the movies whose rentals are the most retained (in time) by the members before delivering?

- 40 What is the distribution of movie types (géneros) by the ages (decades of ages) of members?
- 41 What is the distribution of movie types (géneros) by the sexo of the members?
- 42 What is the distribution of the movie types (géneros) rented over the months? Does people see more Christmas movies at Christmas? Does Spring take people to prefer any type of movie?
- 43 What is the distribution of movie types (géneros) rented by day of the week (hint: use the to_char (date, 'Day') function, which returns the day of the week)?
- 44 Make a view ordered by member name and also his phone, so you can call him because his birthday is "today" and the video club offers him a rental for free. This means that every time the view is called, it returns the members who are in that condition. Use the to_char (Date, 'DD-MON') function, which gives you the day and month of the Date date.
- 45 Create a view that shows the expense (how much money) each member has spent on the video club to this day. Consider only the effective value; not the amount owed.
- 46 Create a view that shows the relative expense that each member has spent on the video club to this day. By relative expense we mean the expense that the member spent but taking into account how long he has been a member. Again, consider only the actual expense; not what the amount owed.
- 47 Create a "this week" top + list (the most rented movies in the current week)? (View)
- 48 Which movies have the most regular rentals over time (use the variance group function (.)?)
- 49 Make a list that gives the movie name, the copy number, and the number of times the copy has already been rented. Show the copies of each film together. (View).
- 50 Make a view that gives the status of each movie copy, that is: "free" or how many days is it rented, and if it should have been delivered already, what is the current amount of the fine?

nome_género