SQL Challenges

Sakila Challenge SQL

- 1. List all actors.
- 2. Find the surname of the actor with the forename 'John'.
- 3. Find all actors with surname 'Neeson'.
- 4. Find all actors with ID numbers divisible by 10.
- 5. What is the description of the movie with an ID of 100?
- 6. Find every R-rated movie.
- 7. Find every non-R-rated movie.
- 8. Find the ten shortest movies.
- 9. Find the movies with the longest runtime, without using LIMIT.
- 10. Find all movies that have deleted scenes.
- 11. Using HAVING, reverse-alphabetically list the last names that are not repeated.
- 12. Using HAVING, list the last names that appear more than once, from highest to lowest frequency.
- 13. Which actor has appeared in the most films?
- 14. 'Academy Dinosaur' has been rented out, when is it due to be returned?
- 15. What is the average runtime of all films?
- 16. List the average runtime for every film category.
- 17. List all movies featuring a robot.
- 18. How many movies were released in 2010?
- 19. Find the titles of all the horror movies.
- 20. List the full name of the staff member with the ID of 2.
- 21. List all the movies that Fred Costner has appeared in.
- 22. How many distinct countries are there?
- 23. List the name of every language in reverse-alphabetical order.
- 24. List the full names of every actor whose surname ends with '-son' in alphabetical order by their forename.
- 25. Which category contains the most films?

World Challenge SQL

- 1. Using COUNT, get the number of cities in the USA.
- 2. Find out the population and life expectancy for people in Argentina.
- 3. Using IS NOT NULL, ORDER BY, and LIMIT, which country has the highest life expectancy?
- 4. Using JOIN ... ON, find the capital city of Spain.
- 5. Using JOIN ... ON, list all the languages spoken in the Southeast Asia region.
- 6. Using a single query, list 25 cities around the world that start with the letter F.
- 7. Using COUNT and JOIN \dots ON , get the number of cities in China.
- 8. Using IS NOT NULL, ORDER BY, and LIMIT, which country has the lowest population? Discard non-zero populations.
- 9. Using aggregate functions, return the number of countries the database contains.
- 10. What are the top ten largest countries by area?
- 11. List the five largest cities by population in Japan.
- 12. List the names and country codes of every country with Elizabeth II as its Head of State. You will need to fix the mistake first!
- 13. List the top ten countries with the smallest population-to-area ratio. Discard any countries with a ratio of 0.
- 14. List every unique world language.
- 15. List the names and GNP of the world's top 10 richest countries.
- 16. List the names of, and number of languages spoken by, the top ten most multilingual countries.
- 17. List every country where over 50% of its population can speak German.
- 18. Which country has the worst life expectancy? Discard zero or null values.
- 19. List the top three most common government forms.
- 20. How many countries have gained independence since records began?

Movielens Challenge SQL

- 1. List the titles and release dates of movies released between 1983-1993 in reverse chronological order.
- 2. Without using LIMIT, list the titles of the movies with the lowest average rating.
- 3. List the unique records for Sci-Fi movies where male 24-year-old students have given 5-star ratings.
- 4. List the unique titles of each of the movies released on the most popular release day.
- 5. Find the total number of movies in each genre; list the results in ascending numeric order.