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| Sakila Database Exercise Book |
| module 8 – databases |

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## Module 8 – Databases

## Exercises Introduction

This Exercise Book makes use of the pre-loaded **Sakila** database which comes with your **MySQL** installation.

These exercises should provide a good test for your knowledge of Structured Query Language (SQL). Please work through this book at your own pace: it is more important that you use this book to enhance your SQL abilities than to speed through it as fast as you can without retaining anything.

You may be tested on some of this material at the end of the week, so please bear this in mind when completing each Exercise.

You do not need to store the answers to each Exercise in this book, but you are free to use it as an extension of your notes, if you wish.

Sakila database Exercises

Each Exercise should return at least one record, according to its individual specification. These exercises get progressively more difficult as they progress.

1. Select all Actors from the table.
2. Find the actor with the first name “John”.
3. Find all actors with the surname “Neeson”.
4. Find all actors with Id numbers divisible by 10.
5. What is the description of the movie with ID of 100?
6. Find every movie with a rating of “R”.
7. Find every movie except those with a rating of “R”.
8. Find the 10 shortest movies.
9. Now return only the movie titles.
10. Find all movies with Deleted Scenes.
11. Which last names are not repeated?
12. Which last names appear more than once?
13. Which actor has appeared in the most films?
14. Is ‘Academy Dinosaur’ available for rent from Store 1?
15. When is ‘Academy Dinosaur’ due?
16. What is that average running time of all the films in the database?
17. What is the average running time of films by category?
18. How many movies have Robots in them?
19. Find the movie(s) with the longest runtime.
20. Count how many movies were released in 2010.
21. Find the titles of all horror movies.
22. Return the full name of the staff member – in a column named full\_name – with the ID of 1.
23. Retrieve all movies that Fred Costner has appeared in.
24. Find out which location has the most copies of BUCKET BROTHERHOOD.
25. How many distinct countries are there?
26. What are the names of all the languages in the database (sorted alphabetically)?
27. Return the full names (first and last) of actors with “son” in their last name, ordered by their first name.
28. Create a list of categories and the number of films for each category.
29. Create a list of actors and the number of movies by each actor.
30. Which actor/actress has appeared in the most movies?