Lab: Built-in Functions

This document defines the **lab exercise assignments** for the <u>"Databases Basics - MySQL" course @ Software University.</u>

Download from the course instance and get familiar with the **book_library** database. You will use it in the following exercises.

1. Find Book Titles

Write a SQL query to find **books which titles start with "The". Order the result by id.** Submit your query statements as **Prepare DB & run queries.**

Example

title
The Mysterious Affair at Styles
The Big Four
The Murder at the Vicarage
The Mystery of the Blue Train
The Ring
…

2. Replace Titles

Write a SQL query to find **books which titles start with "The" and replace the substring with 3 asterisks.** Retrieve data about the updated titles. **Order the result by id.** Submit your query statements as **Prepare DB & run queries.**

Example

title
*** Mysterious Affair at Styles
*** Big Four
*** Murder at the Vicarage
*** Mystery of the Blue Train
*** Ring
*** Alchemist
*** Fifth Mountain
*** Zahir
*** Dead Zone

*** Hobbit
*** Adventures of Tom Bombadil

3. Sum Cost of All Books

Write a SQL query to sum prices of all books. Format the output to **2 digits after decimal point**. Submit your query statements as **Prepare DB & run queries.**

4. Days Lived

Write a SQL query to calculate the days that the authors have lived. **NULL** values mean that the author is still alive. Submit your query statements as **Prepare DB & run queries.**

Example

Full Name	Days Lived
Agatha Christie	31164
William Shakespeare	18990
Danielle Schuelein-Steel	(NULL)
Joanne Rowling	(NULL)
Lev Tolstoy	30021
Paulo Souza	(NULL)
Stephen King	(NULL)
John Tolkien	29827
Erika Mitchell	(NULL)
Agatha Christie	31164
William Shakespeare	18990

5. Harry Potter Books

Write a SQL query to retrieve titles of all the Harry Potter books. **Order the information by id.** Submit your query statements as **Prepare DB & run queries.**

Example

title
Harry Potter and the Philosopher's Stone
Harry Potter and the Chamber of Secrets
Harry Potter and the Prisoner of Azkaban

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...
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