

# Lab: Built-in Functions

This document defines the **lab exercise assignments** for the [MySQL course @ Software University](#).

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 an author lived. Your query should return:

- Full Name – the full name of the author.
- Days Lived – days that he/she 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)

### 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
...