

Lab: Built-in Functions

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

Please submit your solutions (source code) to all the below-described problems in [Judge](#).

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 |
| ... |

