

# Setting Up the BookCollection Database in phpMyAdmin

This guide will help you set up the **BookCollection** database using phpMyAdmin. Follow the steps carefully to ensure a successful setup.

---

## Prerequisites

- Access to phpMyAdmin (commonly provided by your web host or local server setup like XAMPP, WAMP, or MAMP).
  - Basic familiarity with phpMyAdmin's interface.
  - Create a folder inside the xampp htdocs called mysite.
  - Inside the mysite folder you will need to create another folder called "uploads" that will store the uploaded images for the book entries.
  - Once this is done, open xampp and start Apache, MySQL and FileZilla in order to run the php scripts.
- 

## Instructions

### 1. Open phpMyAdmin

1. Navigate to your phpMyAdmin interface in your web browser (<http://localhost/phpmyadmin>).
  2. Log in with your username and password (default is root for username with no password in local setups).
- 

### 2. Create the Database

1. Click on the **SQL** tab in the top menu of phpMyAdmin. Copy and paste the following code into the SQL query editor:  

```
CREATE DATABASE IF NOT EXISTS BookCollection;
```

2. Click Go to execute the code. This will create the **BookCollection** database.
- 

### 3. Use the Database

1. Once the Database is created on the left side of the screen click on the BookCollection database.
  2. Once the correct database is selected click on the SQL header button on the top left of your screen.
- 

### 4. Create the **books** Table

1. Once you have successfully clicked the SQL button it should take you to a screen where it will allow you to paste SQL code to build tables in your database. The following code will build the necessary table to run the following program.

```
CREATE TABLE IF NOT EXISTS books (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    title VARCHAR(255) NOT NULL,  
    author VARCHAR(255) NOT NULL,  
    publicationYear INT NOT NULL,  
    genre VARCHAR(255) NOT NULL,  
    isRead BOOLEAN NOT NULL,  
    image VARCHAR(255) NOT NULL);
```

Click **Go** to execute the code, this will create the **books** table.

---

### 5. Insert Sample Data

Copy and paste the following code into the SQL query editor for the **books** table and press go to have the following data entered into the books table.

```
INSERT INTO books (title, author, publicationYear, genre, isRead, image)  
VALUES  
('Dune', 'Frank Herbert', 1965, 'Science Fiction', TRUE, 'uploads/dune.jpg'),  
('City of Thieves', 'David Benioff', 2008, 'Historical Fiction', TRUE, 'uploads/cot.jpg'),  
('A Farewell to Arms', 'Ernest Hemingway', 1929, 'Classic', TRUE, 'uploads/afta.jpg');
```

---

## 6. Verify Setup

1. Navigate to the **BookCollection** database in phpMyAdmin.
2. Click on the books table to view its structure and confirm the data has been inserted.

## 7. In case you already know your way around PhpmyAdmin here is the full sql code uninterrupted.

```
CREATE DATABASE IF NOT EXISTS BookCollection;
```

```
USE BookCollection;
```

```
CREATE TABLE IF NOT EXISTS books (  
  id INT AUTO_INCREMENT PRIMARY KEY,  
  title VARCHAR(255) NOT NULL,  
  author VARCHAR(255) NOT NULL,  
  publicationYear INT NOT NULL,  
  genre VARCHAR(255) NOT NULL,  
  isRead BOOLEAN NOT NULL,  
  image VARCHAR(255) NOT NULL  
);
```

```
INSERT INTO books (title, author, publicationYear, genre, isRead, image)  
VALUES  
('Dune', 'Frank Herbert', 1965, 'Science Fiction', TRUE, 'uploads/dune.jpg'),  
('City of Thieves', 'David Benioff', 2008, 'Historical Fiction', TRUE, 'uploads/cot.jpg'),  
('A Farewell to Arms', 'Ernest Hemingway', 1929, 'Classic', TRUE, 'uploads/afta.jpg');
```