

MySql Requirements for Demonstration

Note:

1. You must have MySql installed on your computer.
2. You can use the MySQL in XAMPP or a separate MySql instance such as WorkBench.

Database:

- Create a database "DemoLibrary"

Tables:

- Create two tables with the following columns and data types

A. Users

Column	Data Type	Other details
id	int	PK, Auto_increment
username	varchar(45)	
password	varchar(45)	At this point the password is still not secured/not encrypted
name	varchar(100)	
course	varchar(50)	
year	int	

B. Books

Column	Data Type	Other details
id	int	PK, auto_increment
title	varchar(100)	
author_id	int	Reference to the author table
category	varchar(50)	
summary	varchar(500)	

C. Authors

Column	Data Type	Other details
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id	int	PK, auto_increment
name	varchar(200)	
country	varchar(50)	

D. BorrowBook

Column	Data Type	Other details
id	int	PK, auto_increment
id_book	int	
id_user	int	
dateTimeBorrowed	DateTime	Records when the book was borrowed
status	varchar(50)	Pending, returned, returned with penalty, lost, lost but paid
dateTimeSettled	DateTime	Contains the date when the borrowed book is returned, returned with penalty, lost, lost but paid
remarks	varchar(500)	List down the status of the book when borrowed and returned

Creating Backup

- Make sure that you create a backup of your database every time you are finished in the laboratory. This allows you to restore so that you don't have to recreate the whole database, its tables, and its records.