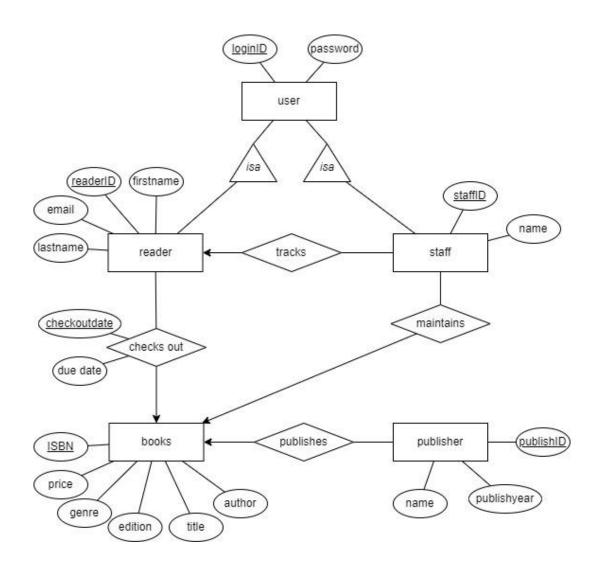
# Nimra Mian Database Systems Project CMPSC F363 with Professor John Xu December 17<sup>th</sup> 2022

https://github.com/miannimra/dbms-project.git

Library Management System	Mian
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Ideally this database would allow two types of users, staff and readers to sign into the database. Readers would be able to select books from a catalog and check out books and see when their books are due and staff have full authority to go through the books in the catalog and the catalog of reader membership of the library and view all their information as well as edit/delete what they need to.

### Library management system E/R diagram



user(loginID, password)
reader(readerID, firstname, lastname, email)

checks\_out(checkoutdate, ISBN, readerID, duedate)
tracks(readerID, staffID)
staff(staffID, name)
publisher(publishID, name, publishyear)
publishes(publishID, ISBN)
books(ISBN, price, genre, edition, title, author)

## Sample Data & Schema

### Book table

ISBN 🔺	genre	title	author
143134183	NONFICTION	BIRDS BY THE SHORE: OBSERVING THE NATURAL LIFE OF THE ATLANTIC COAST	JENNIFER ACKERMAN
345528670	HISTORICAL FICTION	THE AVIATOR'S WIFE	MELANIE BAJNAMIN
375826696	FANTASY	ERAGON	CHRISTOPHER PAOLINI
394724550	NONFICTION	GIFT FROM THE SEA	ANNE MORROW LINDBERG
553588486	FANTASY	A GAME OF THRONES	GEORGE MARTIN
593099323	SCIENCE FICTION	DUNE	FRANK HERBERT
1400052920	SCEINCE FICTION	THE HITCHHIKER'S GUIDE TO THE GALAXY	DOUGLAS ADAMS
1542023912	THRILLER	THE APARTMENT	K.L. SLATER
1786816652	THRILLER	CLOSER	K.L. SLATER
1863256814	MYSTERY	I CAME TO SAY GOODBYE	CAROLINE OVERINGTON

### Reader Table

readerID	firstname	lastname	email	
100000	John	Paul	JohnPaul@email.com	
100001	Connie	Kline conniekline@email.com		
100003	Bennet	Miles	bennetmiles@email.com	
100004	Sidney	McDonald	sidneymcdonald@email.com	
100005	Foster	Webb	FosterWebb@email.com	
100006	Fred	McDaniel	fredmcdaniel@email.com	
100007	Rae	Oconner	raeoconner@email.com	
100008	Merle	West	merlewest@email.com	
100009	Una	Lucas	unalucas@email.com	
100010	Holly	Webb	hollywebb@email.com	

### tracks table

staffID	readerID
235647	100000
235647	100001
235647	100003
235647	100004
235647	100005
235647	100006
235647	100007
235647	100008
235647	100009
235647	100010

### publisher table

publishID	publishyear	name
1	2018	BOOKOUTURE
2	2010	RANDOM HOUSE AUSTRALIA
3	2019	ACE BOOKS
4	2016	METROPOLITAN BOOKS
5	2019	PENGUIN BOOKS

### publishes table

publishID	ISBN
1	1542023912
1	1786816652
4	143134183
3	345528670
4	375826696
5	394724550
3	553588486
3	593099323
5	593099323
5	1400052920
3	1863256814

### maintains table

staffID	ISBN
235647	143134183
235647	345528670
235647	375826696
235647	394724550
235647	553588486
235647	593099323
235647	1400052920
235647	1542023912
235647	1786816652
235647	1786816652
235647	1863256814

### Checks\_out table

checkoutdate	duedate	readerID	ISBN
2022-06-08	2022-06-18	100001	345528670
2022-07-01	2022-07-10	100004	553588486
2022-09-07	2022-09-17	100007	1786816652
2022-09-17	2022-09-27	100007	1542023912
2022-11-01	2022-11-10	100003	375826696
2022-12-01	2022-12-10	100004	143134183
2022-12-03	2022-12-13	100005	1400052920
2022-12-04	2022-12-14	100005	593099323
2022-12-13	2022-12-23	100009	1863256814
2022-12-17	2022-12-27	100008	1400052920

### Source Code

```
back

Library-management-sys.sql

front

dbh-inc.php

deletebook.php

login.css

main.css

main.html

main.php

selectbook.php

selectreader.php

submitupdatebook.php

submitupdatereader.php
```

∟ updatebook.php

https://github.com/miannimra/dbms-project.git

# Application Screenshots & Description

Login		
username		
password		

Enter

Login page, to login use:

username: 235647
password: passwd1

# ISBN ISBN Valid ISBN number is required. Title Title Author Author Genre Genre Submit Reader ID Reader ID Valid ID number is required. First Name First Name Last Name Last Name Email email

Main page, enter data fields either for readers or books Sample book info:

ISBN: 593099323

Title: DUNE

Author: FRANK HERBERT Genre: SCIENCE FICTION

Sample reader info:

Reader ID: 100001 First Name: Connie Last Name: Kline

Email: conniekline@email.com