CSE 216 Project

# ONLINE BOOK SHARING PLATFORM

‘XYZ.com’ is a book sharing platform. This platform mainly collects new books from well-known publishers and old books from users from various locations in Bangladesh. So, this platform has a huge network across the country and it needs a database to maintain all information about its services.

In this platform, there are some employees. Every employee has an id, name, hire date, location, job id, department id, salary, phone number and we have to manage their job history which contains employee id, job id, department id, start date and end date.

This platform has many users. They have user name, user id, password, location address, phone number. They can buy book and sale books though this platform. They are connected with the platform with transaction table which contains transaction id, date, book id.

This platform has some book storage. Every storage has managed by an employee of this platform. They have storage id, location, capacity.

‘XYZ.com’ platform collects new book from publishers. They have an id, name, address. This platform also collects odd books from their users.

Every book has a name, id, author, publisher, storage id where it is kept and a publisher or user id from whom the book is taken.

This platform has some representatives under their branches. Actually, they are paid by the platform and selected from the users. They prompt the services of the platform.

In every branch, there are some vehicles. Every vehicle is maintained by an employee of this platform and has an id, type, date of bought and the location where it is kept.

Project tables:

**Branch** (branch id(pk), name, location id(fk))

**Location** (Location id(pk), Street address, postal code, city)

**Employee** (Employee id(pk), name, Phone number, location id(fk), Job id(fk), department id(fk),email address)

**Job** (Job id(pk), job name, department id(fk), salary)

**Job history** (Employee id(fk), department id(fk), start date, end date, branch id(fk)))

**Department** (Department id(pk), Department name)

**Transport** (transport id(pk), employee id(fk), license number, capacity, location id(fk) , branch id(fk)))

**Book** (Id(pk), name, publisher id(fk)), type, price, Review id(fk), )

**Book storage** (Storage id(pk), location id(fk), employee id(fk), capacity, branch id(fk)))

**Publisher** (Publisher id(pk), name, location id(fk))

**User Transaction** ( id(pk), date, user id, amount)

**Publisher Transaction** ( id(pk), date, publisher id, amount)

**User** (id(pk), name, Location id(fk), Phone number,email address)

**Review** (Review id(pk), book id(fk), user id (fk), date, document)

**Office material** ( Branch id(fk), type, name, id(pk), total materials)

ER Diagram:

