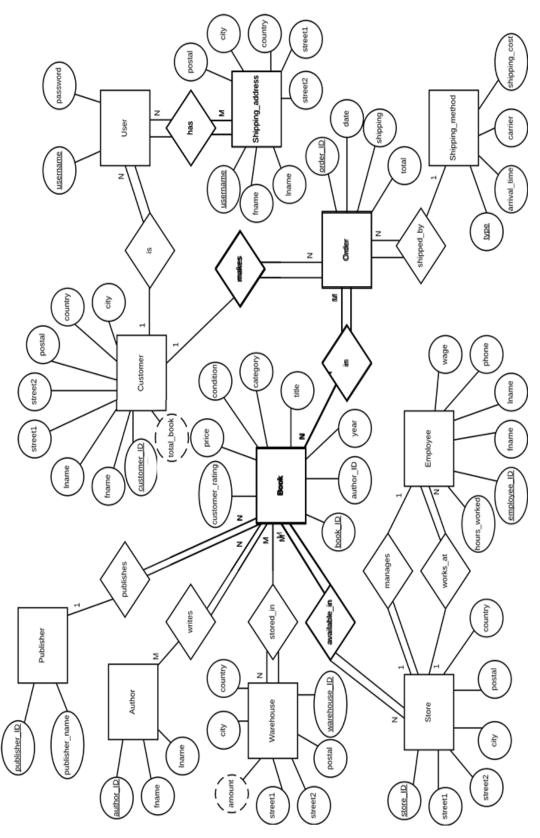
Section 1 – Database Description a) ER Diagram



```
b) Relational Schema
publisher (publisher ID, publisher name)
author(author ID, fname, lname)
customer(customer_ID, Fname, Lname, street1, street2, city, country, postal)
user(username, password, customer ID)
       Foreign key customer ID references Customer
warehouse(warehouse ID, street1, street2, city, country, postal)
       Foreign key book ID references Book
book(book ID, author ID, publisher ID, ISBN, customer rating, price, condition, title)
       Foreign key author ID references Author
       Foreign key publisher ID references Publisher
store(store ID, street1, street2, city, country, postal, manager ID)
       Foreign key manager ID references Employee
employee(employee ID, store ID, hours worked, Fname, Lname, email, phone, wage)
       Foreign key store ID references Store
order(order ID, customer ID, date, shipping, total)
       Foreign key customer ID references Customer
shipping address(username, fname, lname, street1, street2, city, country, postal)
       Foreign key username references User
shipping method(type, arrival time, carrier, shipping cost)
writes(publisher ID, book ID)
       Foreign key publisher ID references Publisher
       Foreign key book ID references Book
stored in(warehouse ID, book ID)
       Foreign key warehouse ID references Warehouse
       Foreign key book ID references Book
available in(store ID, book ID)
       Foreign key store ID references Store
       Foreign key book ID references Book
in(book ID, order ID)
       Foreign key book ID references Book
       Foreign key order ID references Order
has(user ID, username)
       Foreign key user ID references User
```

Foreign key **username** references Shipping address