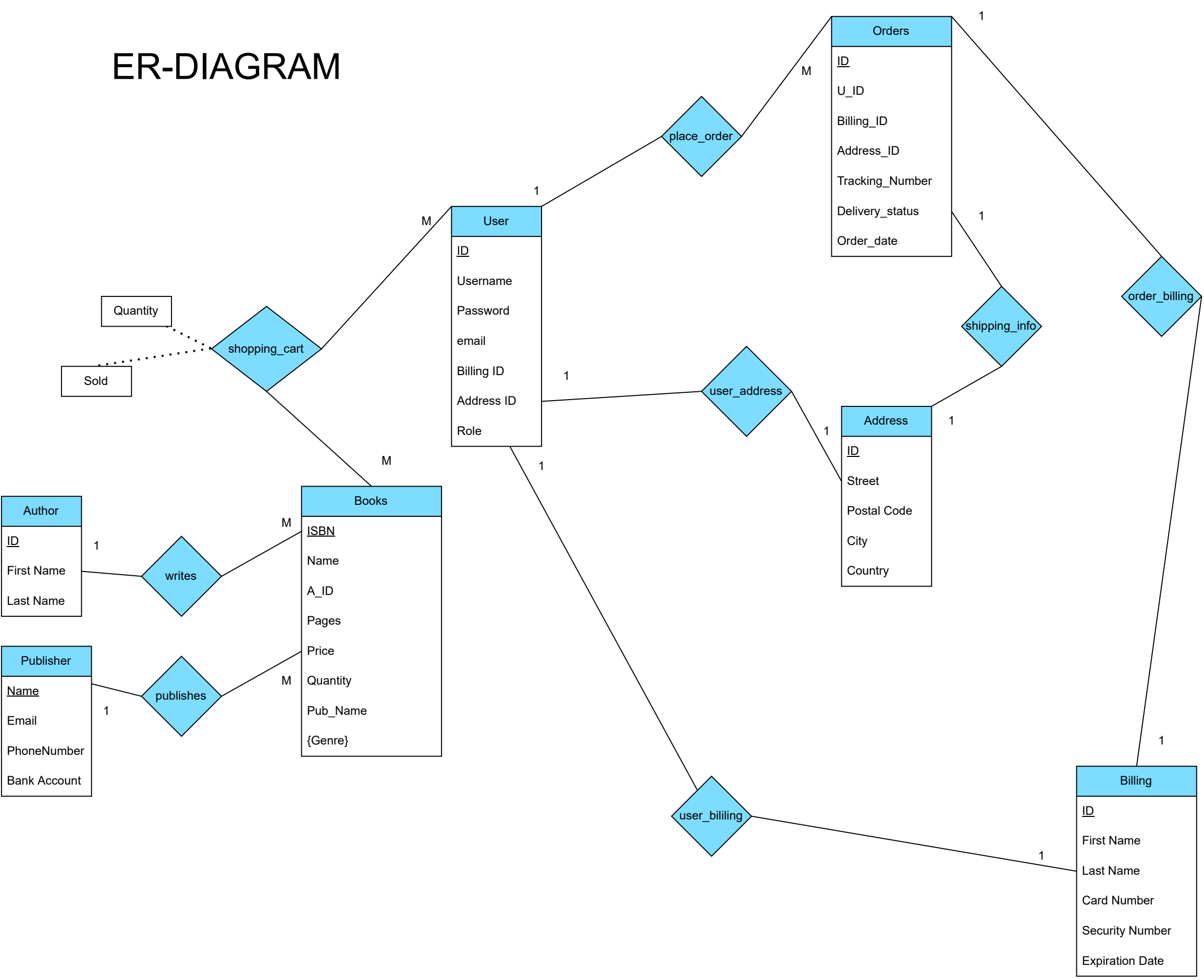


COMP 3005 – PROJECT: LOOK INNA BOOK
PROJECT REPORT
SHIQUANA JOHNSON
101158888
December 11, 2022

ER-DIAGRAM



Reduction to Relation Schemas

Author

<u>ID</u>	First Name	Last Name
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Book

<u>ISBN</u>	Name	Page	Price	Quantity	Pub_Name
-------------	------	------	-------	----------	----------

Publisher

<u>Name</u>	Email	PhoneNumber	Bank Account
-------------	-------	-------------	--------------

User

<u>ID</u>	Username	Password	Email	Billing ID	Address ID	Role
-----------	----------	----------	-------	------------	------------	------

Writes

<u>ISBN</u>	Author_ID
-------------	-----------

Orders

<u>Order Num</u>	User ID	Billing ID	Address ID	Tracking_Number	Delivery_Status
------------------	---------	------------	------------	-----------------	-----------------

has_Genre

<u>ISBN</u>	<u>Genre</u>
-------------	--------------

Shopping Cart

<u>ID</u>	User ID	ISBN	Quantity	Sold
-----------	---------	------	----------	------

Billing

<u>ID</u>	First Name	Last Name	Card Number	Security Number	Expiration Date
-----------	------------	-----------	-------------	-----------------	-----------------

Address

<u>ID</u>	Street	Postal Code	City	Country
-----------	--------	-------------	------	---------

Normalization:

No Trivial Dependencies

Fundamental Dependencies{

Author.ID->Author.Fname, Author.Lname //Author table

ISBN -> BookName, Pages, Price, BookQuantity, Quantity, PubName //Books table

ISBN->Author.ID //writes table

Publisher.Name -> Publisher.Email, Publisher.BankAccount //Publisher table

BillingID->Billing.Fname, Billing.Lname, CardNumber, SecurityNumber, ExpirationDate

AddressID, PostalCode->Street, City, Country

UserID->Username, Password, Email, BillingID, AddressID, Role

OrderNum-> UserID, BillingID, AddressID, TrackingNumber, DeliveryStatus

ShoppingCartID-> UserID, ISBN, ShoppingQuantity

}

This is not in 3NF nor BCNF.

Database Schema Diagram

