Homework 1

- Online Bookstore Application:
 - Requirements: The online bookstore will contain information about books of various categories, written in different languages by different authors, published by different companies. It will keep a track of their availability and the units of each book currently in stock. Every book has a unique identification code, called the ISBN. A customer logs onto the site with his login/password. Upon authentication, he/she can browse the site, place one or more orders. Every order will be assigned a unique number. An order can consist of ordered books of different kinds and quantities.
- o Define the entities and their attributes of this application
- Normalize the tables of this application

Homework 2

- From the course data-folder:
 - Drug Expenditure Universal Table.xlsx
 - Small instantiation of the data for the example
- O Step-by-step, normalize this universal table to 3rd normal form.
 - Use a separate sheet for each entity
 - Bold headers for primary keys
 - Asterix for headers that are foreign keys
- o Reading: Chapter 2 (DME)

Entity	A thi bute
book	catagory, language another, publisher, availability, stock, ISBN
Costomer	use name, pass word, order 5
order	order number, ordered book kind ordered book quantity.

primary keys: 75BN, use name, order mumber.

1st Normal Form:

ISBN	catagory	langume	author	pultisher	awalalatry	unit	m	stock	arstomer	nerant	pass word	orde number	Kind	quantity
	V ()	. v j		<u>'</u>	0									

2nd NF:

TSBN	cate gory	language	author	publisher	awibbility	unit	in Stock
	•	V /					
						l	

customer & order talle

austome werrant	pass word	order number	78BN	book kind	quantity

3rd NP:

book tolde

TSBN	cate gory	language	author	publisher	aunibbi lity	unit	in Stock
		•					
		1					

customer table

order there

order number book kind quantity

bok, oustomer, order table.

TSBN	customes we nane	order	number