

*delete later*Side note:dont know how to verify if they are in normal form

Side note:What can we know about the other attributes given the primary key attributes?

delete later

The Functional dependencies(what attributes are dependent on the primary key attributes?):

user(username,pass) are:

username->pass

check_out(username, order_number, order_id, billing_info, shipping_info) are:

username, order_number -> order_id, billing_info, shipping_info

username->

order_number-> order_id,billing_info,shipping_info

bookstore(order_number, book_name) are:

order_number->book_name

update_order(order_number, warehouse_name) are:

order_number,warehouse_name->

warehouse_name->

order_number->

warehouse(warehouse_name) are:

warehouse_name->

update_stock(order_number, email) are:

order_number,email->

request_stock(warehouse_name, email) are:

warehouse_name,email->

store_owner(email, username, pass) are:

email-> username,pass

store_pub(publisher_address, order_number) are:

publisher_address, order_number->

publisher(publisher_address, book, publisher_name, phone_number) are:

publisher_address->book,publisher_name,phone_number

bank_account(publisher_address, id) are:

publisher_address, id ->

store_book(ISBN, order_number) are:

ISBN, order_number ->

book_pub(ISBN, publisher_address) are:

ISBN, publisher_address ->

book(ISBN, publisher, genre, title, pages, stock, author, prices, unit_cost) are:

ISBN -> publisher, genre, title, pages, stock, author, prices, unit_cost

bank(id) are:

id ->

ordering(order_number , ISBN) are:

order_number, ISBN ->

order_book(ISBN, Billing) are:

ISBN -> Billing

Showing that the relation schemas are in a good normal form:

Showing how to decompose them in a good normal form:

Showing from the newly decomposed relations that they are in good normal form: