1NF grand table

| book\_isbn | book\_name | book\_price | publisher\_name | publisher\_ID | publisher\_address | publisher\_email | author\_last\_name | author\_first\_name | author\_address | author\_email | author\_phone |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |

3NF book data

| book\_isbn | author\_last\_name | author\_first\_name | publisher\_ID |
| --- | --- | --- | --- |
|  |  |  |  |

| book\_isbn | book\_name | book\_price |
| --- | --- | --- |
|  |  |  |

Assumptions:

All books are printed, and therefore all have a unique ISBN

All books have a unique name (to avoid copyright violations)

Publishers can publish multiple unique books, and can have multiple authors under the same house

Authors can have multiple publishers for multiple genres

3NF publisher data

| publisher\_ID | publisher\_name |
| --- | --- |
|  |  |

| publisher\_ID | publisher\_address | publisher\_email |
| --- | --- | --- |
|  |  |  |

Assumptions:

Publishers all have unique names (to avoid infringement)

publisher\_ID can be used to identify name, address, and email; name and ID are separated

3NF author data

| author\_last\_name | author\_first\_name | author\_email | author\_phone | author\_address |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

Assumptions:

Last and first name together are the unique identifier.

Authors share first or last names, not both

Authors can have multiple phone numbers/emails that don’t pertain to book work, and are not considered

Authors use multiple address for work/personal

Addresses can hold many phone numbers/emails from other non-authors