Victor Gregory  
CSD310-J308  
Professor Sampson

3.2 Assignment: Normalized Tables

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1NF | | | | | | | | | |
| **publisher\_ID** | **book\_isbn** | **book\_name** | **book\_price** | **author\_first\_name** | **author\_last\_name** | **author\_phone** | **author\_email** | **author\_address** | **publisher\_email** |
| 1 | 978-0-14-357347-3 | To Kill a Mockingbird | 10.99 | Harper | Lee | 555-123-4567 | Harperlee@netacad.com | 123 Elm Street, Maycomb | publishing@email.com |
| 2 | 978-0-316-07767-1 | The Catcher in the Rye | 12.50 | J.D. | Salinger | 555-987-6543 | Jdsalinger@email.com | 456 Oak Ave, New York | publisher2@email.com |
| 3 | 978-0-06-112008-4 | 1984 | 9.99 | George | Orwell | 555-789-1234 | Georgeorwell@email.com | 789 Maple Lane, London | Info@publishing.com |

In this case scenario I am going to normalize the table by separating these information as:

Publisher Table (3NF):

* publisher\_ID
* publisher\_email

|  |  |
| --- | --- |
| **publisher\_ID** | **publisher\_email** |
| 1 | publishing@email.com |
| 2 | publisher2@email.com |
| 3 | Info@publishing.com |

Then create a new table with the book info as **Book Table**:

* book\_isbn (Primary Key)
* book\_name
* book\_price
* publisher\_ID (Foreign Key, references publisher\_ID in Publisher Table)

|  |  |  |  |
| --- | --- | --- | --- |
| **book\_isbn** | **book\_name** | **book\_price** | **publisher\_ID** |
| 978-0-14357347-3 | To Kill a Mockingbird | 10.99 | 1 |
| 978-0-316-07767-1 | The Catcher in the Rye | 12.50 | 2 |
| 978-0-06-112008-4 | 1984 | 9.99 | 3 |

After I will make an **Author Table**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **author\_ID** | **author\_first\_name** | **author\_last\_name** | **author\_phone** | **author\_email** | **author\_address** |
| 1 | Harper | Lee | 555-123-4567 | harperlee@email.com | 123 Elm Street Maycomb |
| 2 | J.D. | Salinger | 555-987-6543 | jdsalinger@email.com | 456 Oak Avenue, New York |
| 3 | George | Orwell | 555-789-1234 | Georgeorwell@email.com | 789 Maple Lane, London |

Finally, I am doing the Book Author table:

* book\_isbn (Foreign Key, references book\_isbn in Book Table)
* author\_ID (Foreign Key, references author\_ID in Author Table)

|  |  |
| --- | --- |
| **book\_isbn** | **author\_ID** |
| 978-0-14-357347-3 | 1 |
| 978-0-316-07767-1 | 2 |
| 978-0-06-112008-4 | 3 |