Kody Pope

11-5-23

Assignment 3.2

Normalized Tables

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| Kody Pope 11-5-23 Assignment 3.2: Normalized Tables | | | | | |
| **1NF** | | | | | |
| publisher\_name | publisher\_email | book\_isbn | book\_name | author\_last\_name | author\_email |
| Johnson Publishing | [admin@johnpublishing.com](mailto:admin@johnpublishing.com) | 848672413451 | Space Invaders | Smith | [rsmith@yahoo.com](mailto:rsmith@yahoo.com) |
| The Reader | [publish@thereader.com](mailto:publish@thereader.com) | 848672413452 | A Day in the Life | Pope | [kodypope2@gmail.com](mailto:kodypope2@gmail.com) |
| Seal Publishing | [agents@sealllc.com](mailto:agents@sealllc.com) | 848672413451 | My Greatest Secret | Hamilton | [jfhamilton@gmail.com](mailto:jfhamilton@gmail.com) |
| Out of this World Publishing | [admin@oftwpublishing.com](mailto:admin@oftwpublishing.com) | 848672413454 | Wedding Memoirs | Gold | [ggold@hotmail.com](mailto:ggold@hotmail.com) |
| Giraffe house | [publishing@giraffehouse.net](mailto:publishing@giraffehouse.net) | 848672413455 | Confessions of Garbage Island | Penguin | [spenguin@yahoo.com](mailto:spenguin@yahoo.com) |
|  | | | | | |
| **3NF** | | | | | |
| Publisher Table | | | | | |
| publisher\_name | publisher\_ID | publisher\_address | publisher\_email |  |  |
| Johnson Publishing | 378 | 516 Chelsea St New York, NY 12512 | [admin@johnpublishing.com](mailto:admin@johnpublishing.com) |  |  |
| The Reader | 8634 | 123 2cd St. New York, NY 10005 | [publish@thereader.com](mailto:publish@thereader.com) |  |  |
| Seal Publishing | 197 | 200 Atlantic Highway, Level 4. North Sydney NSW 2060 | [agents@sealllc.com](mailto:agents@sealllc.com) |  |  |
| Out of this World Publishing | 2296 | 416 Cherry St, Chimdale, VA 23407 | [admin@oftwpublishing.com](mailto:admin@oftwpublishing.com) |  |  |
| Giraffe house | 1349 | Champ de Mars, 5 Av. Anatole France, 75007 Paris, France | [publishing@giraffehouse.net](mailto:publishing@giraffehouse.net) |  |  |
|  | | | | | |
| Book Table | | | | | |
| book\_isbn | book\_name | book\_price |  |  |  |
| 848672413451 | Space Invaders | $39.99 |  |  |  |
| 848672413452 | A Day in the Life | $59.99 |  |  |  |
| 848672413451 | My Greatest Secret | $29.99 |  |  |  |
| 848672413454 | Wedding Memoirs | $34.99 |  |  |  |
| 848672413455 | Confessions of Garbage Island | $21.99 |  |  |  |
|  | | | | | |
| Author Table | | | | | |
| author\_first\_name | author\_last\_name | author\_phone | author\_email | author\_address |  |
| Roger | Smith | 555-365-1846 | [rsmith@yahoo.com](mailto:rsmith@yahoo.com) | Chimdale, VA |  |
| Kody | Pope | 555-365-1841 | [kodypope2@gmail.com](mailto:kodypope2@gmail.com) | Los Angeles, CA |  |
| J.F. | Hamilton | 555-365-1546 | [jfhamilton@gmail.com](mailto:jfhamilton@gmail.com) | Seattle, WA |  |
| Genie | Gold | 555-365-2746 | [ggold@hotmail.com](mailto:ggold@hotmail.com) | Langly, VA |  |
| Steve | Penguin | 555-365-1886 | [spenguin@yahoo.com](mailto:spenguin@yahoo.com) | Richmond, VA |  |

Deliverables:

The assumption I made here was that the data fields given here all qualify as third normal form as they are bits of information that cannot be broken down any further. For example, a publisher ID cannot be broken down any further. Therefore, the publisher ID is the third normal form. The first normal form, however, is a table showing information where the publisher ID would then be present and then, thus, by using the publish ID, can take us to a child table that also includes publish ID as well as other information about the publisher such as address, ISBN, and name.

I have created a first normal form parent table with the necessary information about the examples I provided. For example, the book's ISBN and the book’s name are both present in the parent table, as it is possible that multiple publishers can use the same ISBN. Therefore, one ISBN can be assigned to a book called Space Invaders, but that same ISBN can also be given to another book called My Greatest Secret. Still, the ISBN was given to My Greatest Secret because it is with a different publishing company, so in the first normal form table, having both the ISBN and the book name is necessary information as ISBN is not enough information because it is included in a chart that has other publishers that could’ve also given another book the same identifiable number.