CSD310-H307 Database Development and Use

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Assignment 3.2 – Normalized Tables

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*Assumptions made to normalize to 3NF for our assigned data points:*

1. Each book has one publisher but can have more than one author.
2. Each author can write multiple books
3. Authors, publishers and books have unique identifiers (Can be private or internal use, or public, like ISBN’s are)
4. Contact and address information are stored seperately to reduce redundancy.

*Normalized Tables:*

|  |  |  |
| --- | --- | --- |
| **Publisher** |  |  |
| **Field Name** | Sample Data | **Description** |
| publisher\_id | 101 | Unique publisher ID (Primary Key) |
| publisher\_name | Penguin | Publisher's name |
| publisher\_address | 123 Fake Street | Physical address |
| publisher\_email | [books@penguin.com](mailto:books@penguin.com) | Contact email |
|  |  |  |
| **Author** |  |  |
| **Field Name** | Sample Data | **Description** |
| author\_id | 202 | Unique author ID (Primary Key) |
| author\_first\_name | Jane | First name |
| author\_last\_name | Doe | Last name |
| author\_phone | 555 123 1234 | Phone number |
| author\_email | [jane.doe@books.com](mailto:jane.doe@books.com) | Email address |
| author\_address | 123 Author Street | Physical address |
|  |  |  |
| **Book** |  |  |
| **Field Name** | Sample Data | **Description** |
| book\_isbn | 123-0-123456-12-1 | Book's ISBN (Primary Key) |
| book\_name | Databases and You | Title of the book |
| book\_price | 19.99 | Price of the book |
| publisher\_id | 101 | Linked to Publisher table (Foreign Key) |
|  |  |  |
| **Book Author** |  |  |
| **Field Name** | Sample Data | **Description** |
| book\_isbn | 123-0-123456-12-1 | Linked to Book table (Foreign Key) |
| author\_id | 202 | Linked to Author table (Foreign Key) |