Nicole Smith

CIS 310-01

A2

1. Business Rules
   1. A publisher may publish at least one or many books.
   2. A book may have one and only one publisher.
   3. A book may have one and only one author.
   4. An author may write at least one or many books.
   5. An author may sign at least one or many contracts.
   6. A contract may be signed by one and only one author.
   7. A publisher may submit at least one or many contracts.
   8. A contract may be submitted by one and only one publisher.

3.

PUBLISHER Table

|  |  |  |  |
| --- | --- | --- | --- |
| PUB\_ID | CONTRACT\_ID | BOOK\_ID | AGENT |
| 1 | 12 | 6 | GUAN |
| 2 | 11 | 4 | BARKER |
| 3 | 10 | 5 | WRIGHT |

BOOK Table

|  |  |  |  |
| --- | --- | --- | --- |
| BOOK\_ID | PUB\_ID | AUTHOR\_ID | TITLE |
| 4 | 2 | 7 | DATABASE |
| 5 | 3 | 9 | C# |
| 6 | 1 | 8 | INFRASTRUCTURE |

AUTHOR Table

|  |  |  |  |
| --- | --- | --- | --- |
| AUTHOR\_ID | BOOK\_ID | CONTRACT\_ID | ADDRESS |
| 7 | 4 | 11 | 123 MAIN ST |
| 8 | 6 | 12 | 456 MAIN ST |
| 9 | 5 | 10 | 789 MAIN ST |

CONTRACT Table

|  |  |  |  |
| --- | --- | --- | --- |
| CONTRACT\_ID | AUTHOR\_ID | PUBLISHER\_ID | CONTRACT\_DATE |
| 10 | 9 | 3 | 01/01/2014 |
| 11 | 7 | 2 | 05/06/2001 |
| 12 | 8 | 1 | 04/19/2007 |