Database Normalization

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W3.2:A

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Here are the given fields organized into third normal form.



The primary keys are as follows:

Publisher Table >> publisher\_id

Book Table >> book\_isbn

Author Table >> author\_first\_name + author\_last\_name

The publisher\_id and book\_isbn fields are used as the primary key to avoid situations where duplicate names exist. Similarly both author first and last name must be utilized to create a valid primary key for the author table.

The foreign keys are found in the Book table with the publisher\_id connecting it to the Publisher table and the author\_first\_name + author\_last\_name attributes connecting it to the Author table. An additional field could be added to the Author table for author\_id in the rare case that an author’s first and last name match with another. This would allow the Book table to remove author\_first\_name and author\_last\_name in lieu of author\_id.

# References