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CYBR 410

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3.3:PyBookCo

For this assignment I did it two different ways. I was not entirely sure which way would work best but something tells me the second way. So, we will be being with the first way which below is the ORD and then the NoSQL diagram. I was not sure if I needed to do the embedded where say publisher could have book\_isbn under it etc. since we are trying for a non-relational approach, the example did not have any prim/foreign keys, so I went this route. The business rule associated with this is

One publisher has 1 to many books

One book has one to many authors

Table

Description automatically generated

A picture containing text

Description automatically generated

Here I tried making it with three tables like it feels like it should be naturally. Below is the NoSQL structure (code). This is the regular each table code

Text

Description automatically generated

The next is subset pattern This one I was iffy about with trying to have two different books/authors for the same publisher. I was not sure if the book and author should have been inside the same [ ] (brackets) or how I have it. Text, letter

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Next will be having it as two tables, one Publisher and the other Book that combines book and author data. This felt like the correct approach as this would be simplified down to not requiring any kind of keys. So, if you search for an isbn it would produce the publish and the author info. Below is the ORD and the NoSQL diagram. Business rules for this is

One publisher has one to many books

Diagram

Description automatically generated

Diagram

Description automatically generated with medium confidence

Below is the NoSQL code. Like usual start with breakdown of tables then move into the subset pattern.

Text, letter

Description automatically generated

And here’s my attempt with two different authors/books

Graphical user interface, text

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