CIS 451/551 Final Project

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Project title: FutureAuthorNeedsToKnow
a database system for the potential authors to choose the proper publisher to publish their book.

Connection information
port number: 3122
hostname: lcai6@ix.cs.uoregon.edu
guest account login/password: guest/guest
database name: future

project URL:
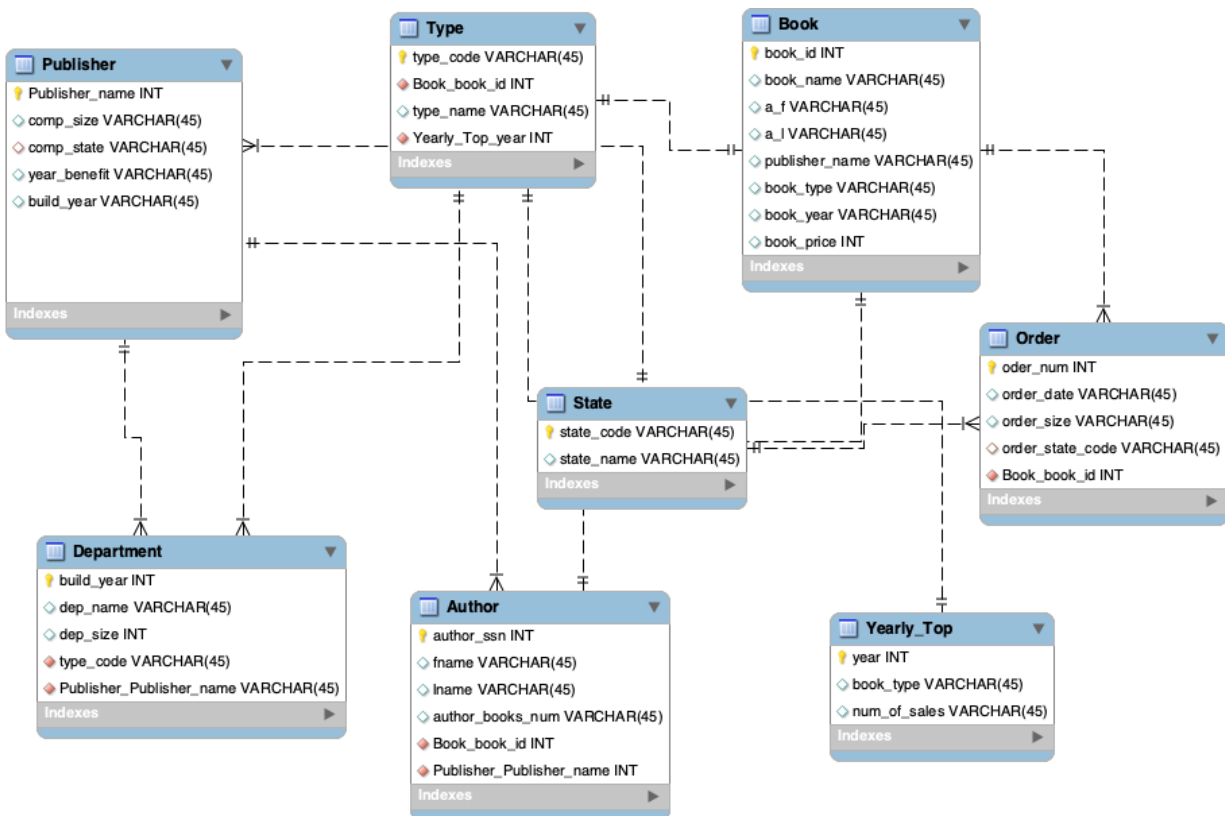https://ix.cs.uoregon.edu/~lcai6/final/homepage.html

Highlights:

Data from real life's book, author, and publisher.

Summary:

FutureAuthorNeedsToKnow, as the name shows, is for the author to search for finding a proper publisher to publisher their book. This database includes lots of book types but in general type, it can be separated as Literature, Romance, Fitness, Arts, and Business. The potential authors can check different information through a website, such as which publisher focuses on the type of book. The potential author can understand which one has better marketing through their sales information. Of course, the potential authors can also compare publishers with other information through this database. There are eight tables in total; all the operations are based on these tables. The attributes have shown on the Crowsfoot ER diagram. There are six main pages on this website, the HOME page and other application pages.

Logical Design

Physical design

Author: this table includes author_id, author first name and last name, and the book they write.

Book: this table includes book_isbn, book name, book author's name, book publisher, book type, book year, and book price

Book_type: this table includes the general type of the book and detailed type of book. For example, business has two fields, one investing and one Finance. I use detailed type as primary key for perfectly define a book. The general type can help potential author to explore the publisher.

Department: this table includes department build year(as primary key), department name, department_size, and their publisher name. Due to the year of publisher establish, the establish of the department can be unique.

Order: this table includes order number(pk), order date, order state, and book id. The book id is an FK from the book table.
Publisher: this table includes publisher name, publisher build year, income, and state.
State: this table includes state code and state name.
Year_Top: this table includes different year top-selling book types, book names, and sales numbers.

List of Applications
1. The home page provided a general introduction about using this website and showed the publisher's logo.
2. The application1:Enter a publisher name to explore their author and the book they published.
3. The application2 page: Enter a book type to explore which publisher has that department and the size of their department.
4. The application3 page: Enter a book name to know the author and most would like to buy this book state in 2021.
5. The application4 page: Searching year top-selling book and shows the book name and their publisher.
6. The application5 page: Enter a state name and will shows the most popular book.

User's guide
Since the system is a web-based program so users just need to click the buttons on the webpage. In addition, the PHP file and HTML file have been provided on the website as well.

Contents of tables
Links will provide link format on the website.

Implement code
Code will provide link format on the website.

Conclusion

For this project, due to my peculiar awful health condition, in the beginning, I thought I would not finish it at all. However, when I started to build the ER diagram, I enjoyed this project. I used to have dreamed of being a writer in my country. However, I don't have enough information to know about how to select a publisher. More of my time was just writing and saving my product. In this project, I didn't provide difficulty understanding information. I hope people who are willing to become writers can start exploring the publisher's department, their size, and how's their product to consider which one is best for them. Giant publishers may not suit everyone, so sometimes, even one publisher only has one department or has just been established in recent ten years may also be a good opportunity.

If I can have more time, I hope all my data can be more detailed; the biggest challenge in this project is I don't know much about book publishers in the United States, and I'm not very sure whether the relationship between authors and publishers in the United States and other countries is the same. In my understanding, publishers will check the manuscripts one by one after they receive them. However, I found that American publishers are more inclined to contact the relevant agency first during the search process. I ignored this link in my project due to a lack of time. But if I can have more time, I hope to provide more helpful information and more data to those who wish to become authors to help them maximize their benefits.