**Project Name: HLRS (Hotel Library and Rental Service)**

**Summary:**

The HLRS will provide a service by which the Guests can check out books for the duration of their stay. This will ensure that the Guests will have a more pleasurable experience at the hotel and may return in the future. A guest may choose a book from one of the Hotel’s Library shelves which they may check out for the duration or their stay.

In addition to this service, the system will also have the functionality to store information of the author, release, and publisher of the book. Additionally, noteworthy quotes can be stored to be easily accessed in the future.

The system will allow for easy modification in the future to add other rental options for the guest.

**Business Rules**

* Rental Status, similar to Folio Status, will be limited to R (Reserved), A (Active), C (Complete), X (Cancelled).
* Book Status will be limited to R (Reserved), A (Available), O (Out).
* Books will be stored on shelves to allow for easy retrieval for the guest.
* A Guest can determine how many nights to rent the book. This number cannot exceed their hotel rental without penalties.
* Books must be turned in before/at Folio check out or heavy fees will be introduced.
* Books will not be allowed if no author is included with it.
* Books will be displayed with all authors attributed to it in order.
* Books will have a Rental Fee that will be a percentage of how much that book is worth.

(This is where I was going with the programming stuff, which were based mostly off of the type of problems in the homework. Let me know if that is a problem, or if you need them to be more unique or any other changes that would be good.)

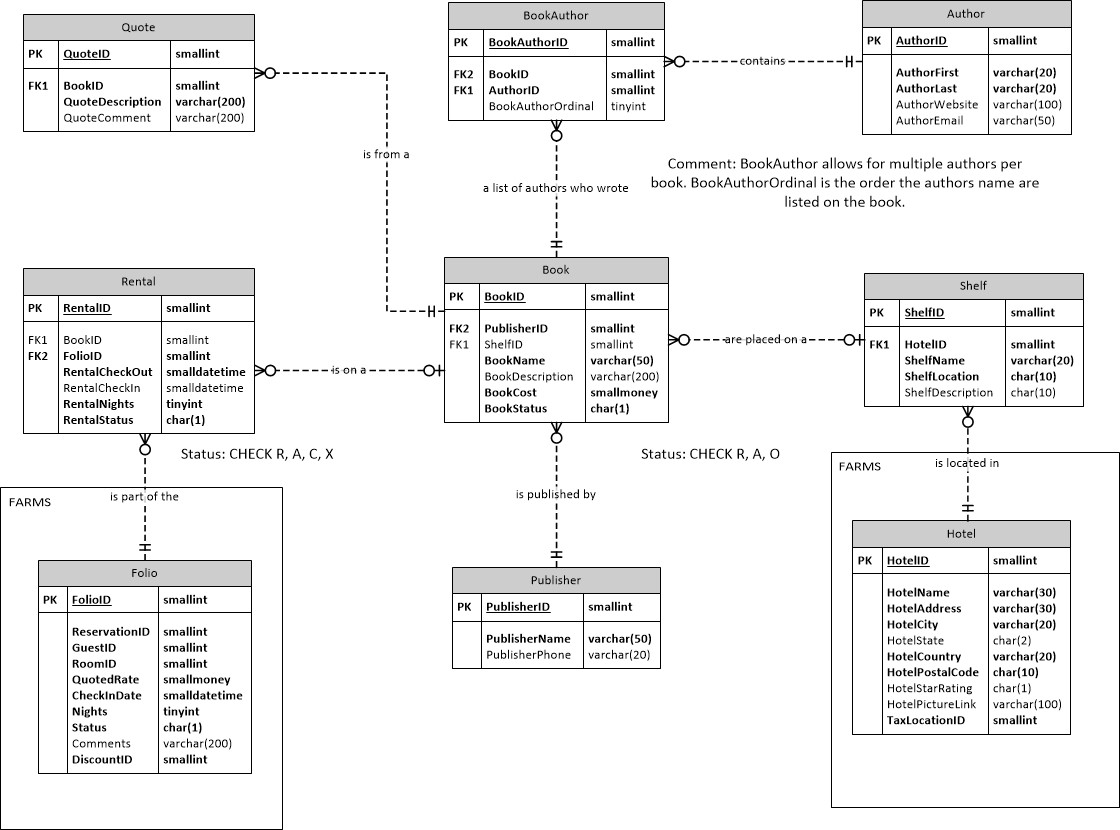
**SPROCS & UDFS**

* sp\_UpdateRental: changes rental with given values
* sp\_InsertBook: inserts book into table. Does stuff if author does not exists
* dbo.showCheckedOut: shows all checked out books in hotel w/due dates
* dbo.getQuote: gets all quotes from one author
* dbo.displayBooks: shows all books on a shelf w/quotes
* dbo.calculateCost: calculates cost. Checks if late. Adds Sales Tax

**TRIGGERS**

* tr\_AuthorMustExists: will check to see if author inserted exists
* tr\_UpdateShelf: updates shelf when books are checked out of it and displays books
* tr\_UpdateRental: calculates total when Status is updated
* tr\_GenerateAuthors: when book is inserted or updated generates authors for book
* tr\_UpdateStatus: updates book&rental status
* tr\_UpdateQuoteComment

ERDiagram

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