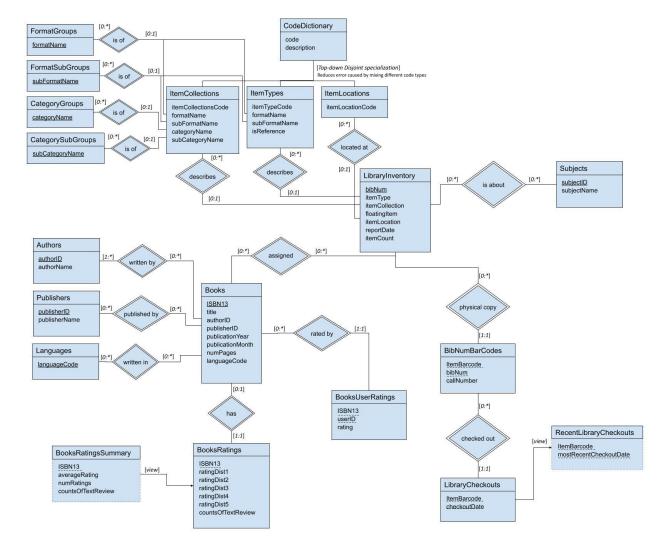
20-Books

ER Schema by sqguo
Client Application by sqguo
Data-mining by sqguo



ER Diagram

Translates to 21 tables and 3 Views.

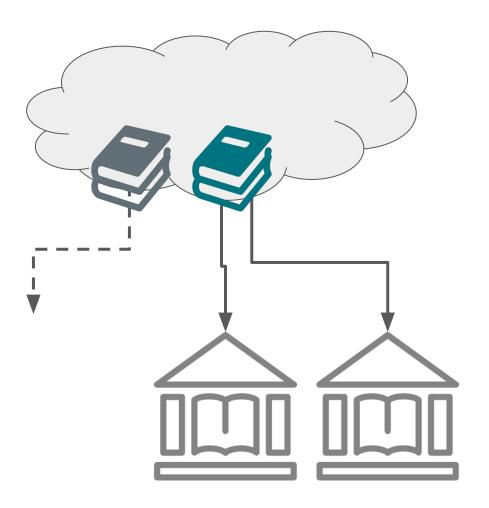
2,173,401 unique ISBNs books.

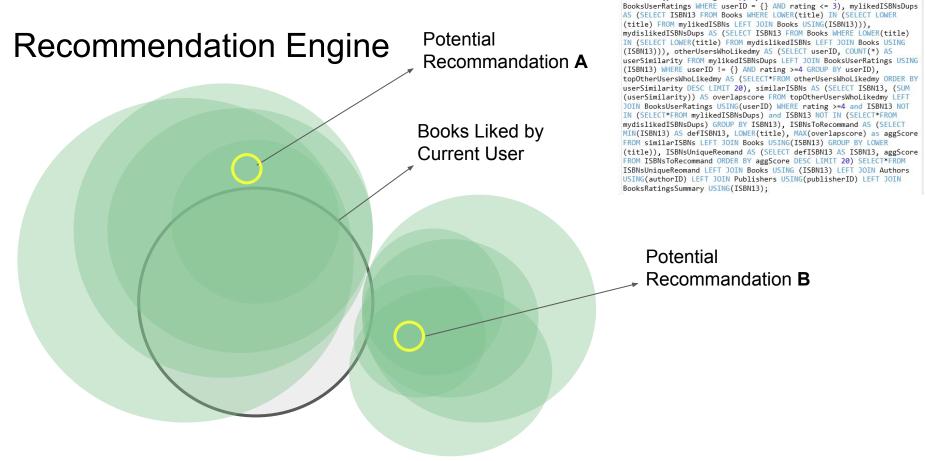
30,974,900 Records in the LibraryCheckouts (2013 to 2017)

Client Application

Helps Users find the book they need before going to the library

lookup a book	f
borrow a book	b
publish a book	p
review a book	r
checkout a book	С
recommend a book	е
exit	q





WITH mylikedISBNs AS (SELECT ISBN13 FROM BooksUserRatings WHERE userID = {} AND rating >= 4), mydislikedISBNs AS (SELECT ISBN13 FROM

A will always be recommended over B if there is a choice.

Data Mining

Library Checkouts (2015 - 2017)		Goodread	Goodreads Ratings		
Popularity	1	2	3	4	
Extremely Unpopular	135	898	8221	4001	
Very Unpopular	111	892	11776	5883	
Unpopular	42	390	7205	3733	
Normal	50	362	9046	5270	
Popular	21	247	7071	4673	
Very Popular	10	115	5971	4586	
Extremely Popular	3	17	3898	4337	

Data Mining (Validation)

Library Checkouts (2013 - 2014)	Goodreads Ratings			
Popularity	1	2	3	4
Extremely Unpopular	123	886	8131	4177
Very Unpopular	117	872	11193	6026
Unpopular	58	401	6439	3476
Normal	55	385	8186	4621
Popular	22	255	6900	4133
Very Popular	17	179	6490	4415
Extremely Popular	4	50	4503	4138