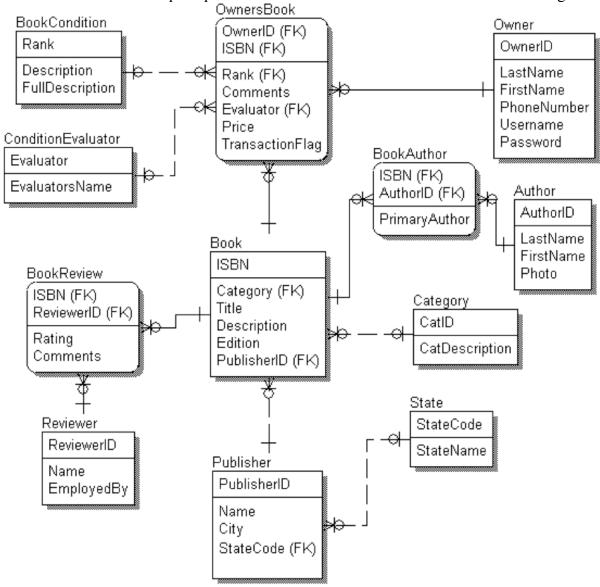
ISTE-230 Introduction to Database & Data Modeling Homework #9 – SELECT statements and FUNCTIONS

DUE:	
Name:	

Submit your script to the HW#9 Dropbox by the deadline.

Needed to complete: MySQL version 5

Download the createBOOK.sql script execute it to create the database shown in the ER diagram below.





Captured in English, the entities of this Universe of Discourse, and the relationships among them, can be described like this:

Book .. (1) identified by an **ISBN**, (2) written by one primary

BookAuthor and zero or more secondary **BookAuthors**, (3) categorized by subject matter **Category**, (4) published by **Publisher**, and (5) reviewed in a given **BookReview**

BookAuthor ... individuals that are either the primary or secondary author(s) of

a specific Book occurrence

Author ... individuals that are primary or secondary authors

BookReview ... the rating assigned to a specific **Book** occurrence by a given

Reviewer

Reviewer .. individuals that review Books and assign a rating to it
OwnersBook .. Books owned by Owners that are deemed to be in a certain

Condition as rated by a ConditionEvaluator

Owners ... individuals that own OwnersBooks

Condition .. the set of **Condition** "rankings" (1..5, corresponding to "bad",

"poor", "average", "good" and "excellent") that can be assigned

to an OwnersBook

ConditionEvaluator ... individuals that evaluate the condition of a book and assign a

Condition to it

Category ... the set of **BOOK** subject matter classifications

Publisher ... publishes BOOKs in a given U.S. State

State ... state codes and full state names

Query the database

For each of the tasks that follow you will write a SQL statement that will answer the question given the specifications provided. The results you should achieve are shown after each task (unless a sort order is specified, if your records appear in a different order but the content is the same, that is fine). The SQL statement for each task, along with a preceding comment denoting the task number, should be placed in a script that follows the format 'yourlastname HW9.sql'.

1. (17 points) Count the number of publishers that are in each city, statecode combination. Your output should match the display given below (including column headings):

+	++
Location	Count
+	++
San Francisco, CA	1
Rochester, MN	1
Hartford, CT	1
Boston, MA	1
Rochester, NY	2
Chicago, IL	3
New York, NY	4
+	++
7 roug in sot (0 00 g	300)

⁷ rows in set (0.00 sec)

2. (31 points) For EVERY book in the book table, show the title, the count of the number of ratings, the minimum rating, the maximum rating, and the average rating rounded to the nearest penny. Your results should be sorted by the count of the number of ratings in descending order, followed by the average ratings in descending order. Your output should match the display given below (including column headings):

title	Total Ratings	Low	High	Average
Yes! Networking is for Bills Fans	3	5	8	6.33
The Shortest Book in the World	2	10	10	10.00
My Love's Last Lingering Lost	2	8	9	8.50
From Brockport to IT	2	7	10	8.50
How to Keep your Cellular Bill Down	2	7	8	7.50
Women are From Venus ORACLE is from Beyond Pluto	1	10	10	10.00
My Love's Last Longing	1	10	10	10.00
My Lost Love's Long Last Lingering	1	9	9	9.00
JAVA: It's more than Just a Programming Language	1	9	9	9.00
How to add Class to your Programming	1	9	9	9.00
I Lasted my Love's Last Lingering Longing	1	7	7	7.00
My Love's at Long Last Lost his Lingering	1	7	7	7.00
How to Keep your Cable Bill Down	1	7	7	7.00
From Deep in the Heart of Texas to IT	1	6	6	6.00
From the Shores of Lake Erie to IT	1	4	4	4.00
ER, SOM, NF, DK/NF, SQL, JDBC, ODBC, and RELVAR	1	4	4	4.00
Tired of wired? Infrared instead!	0	NULL	NULL	NULL
Master Wireless Through The Classic Comics	0	NULL	NULL	NULL
Master HTML Through The Classic Comics	0	NULL	NULL	NULL
Master C++ Through The Classic Comics	0	NULL	NULL	NULL
Calculus for Phys Ed Majors	0	NULL	NULL	NULL
The Science of Literature Searching	0	NULL	NULL	NULL
A language without Pointers? Priceless.	0	NULL	NULL	NULL

²³ rows in set (0.00 sec)



3. (23 points) Show the publisher name and count of books published for those publishers that have published more than two books. Records should be sorted by the count of books published in descending order, followed by publisher name in ascending order. Your output should match the display given below (including column headings):

+	-
Publisher Name	Book Count
ReadEmandWeep Romance Publishing CovertoCover Publishing EZRead Masterpiece Comics	5 4 3
3 rows in set (0.00 sec)	++

4. (18 points) Write a query that will select all of the book titles that have "bill" in their name and will display the title of the book, the length of the title, and the part of the title that follows "bill". Your output should match the display given below (including column headings). (HINT: Use SUBSTR and INSTR.)

+	+	++
title	Length	After Bill
Yes! Networking is for Bills Fans How to Keep your Cellular Bill Down How to Keep your Cable Bill Down	33 35 32	! !
3 rows in set (0.00 sec)	,	,,

5. (11 points) Show a listing of used book titles that are available (used books are found in ownersbook). A title should only appear once in the listing. Your output should match the display given below (including column headings):

+
title
+
The Shortest Book in the World
From the Shores of Lake Erie to IT
My Love's at Long Last Lost his Lingering
My Love's Last Lingering Lost
How to Keep your Cellular Bill Down
Yes! Networking is for Bills Fans
My Love's Last Longing
From Deep in the Heart of Texas to IT
How to Keep your Cable Bill Down
I Lasted my Love's Last Lingering Longing
My Lost Love's Long Last Lingering
ER, SOM, NF, DK/NF, SQL, JDBC, ODBC, and RELVAR
The Science of Literature Searching
+
13 rows in set (0.00 sec)