# SQL Worksheet 2021

Disclaimer! If you have a result that is vastly different from mine don't assume mine is right and yours is wrong! Come and have a chat (I wrote these in a very quick time frame).

Expected query results

#### 1.

title	genre
To Kill a Mocking Bird	Classic

### 2.

published	△ 1	
	1950	
	1960	
	1979	

### 3.

name	title
Sarah Martinez	To Kill a Mocking Bird
Sarah Martinez	To Kill a Mocking Bird
Mike Anderson	To Kill a Mocking Bird

#### 4.

```
name
-----
Daniel Lewis
Chris Jackson
```

5.

name	title	ratings
Isaac Asimov	I Robot	5

7.	
name	title
Sarah Martinez	To Kill a Mocking Bird

8.	
title	max(ratings)
1776	3
Dune	3
I Robot	5
The Diary of a Young	3
The Neverending Stor	5
To Kill a Mocking Bi	4
	-

title ratingSpread

I Robot 3
To Kill a Mocking Bird 2
Dune 1
The Diary of a Young Girl 1
The Neverending Story 1
1776 0

10. before modifications
-0.8125

Tricky! You need to get the average rating of each Book made before 1970. Likewise for those after. I did this by creating two

tables in the FROM clause one before 1970 and one after. This would have created a Cartesian product at that point — which I wasn't interested in. I was simply using the FROM to create tables that I could then average. There might be a simpler way.

#### **Modification**

11. Add the reviewer John Green to your database, with an rID of 209.

12. Insert 5-star ratings by Daniel Lewis for all books in the database. Leave the review date as NULL. Do Not write five insert statements.

202	101	5	nu11
202	102	5	null
202	103	5	null
202	104	5	null
202	105	5	null
202	106	5	null
202	107	5	null
202	108	5	null
The Co. 1			

13. For all books that have an average rating of 4 or higher, add 25 to the published year. (Update the existing Rows; don't insert new Rows.)

Before:

101 102 103 104 105 106 107	To Kill a Mocking Bi Animal Farm Dune The Diary of a Young The Princess Bride The Neverending Stor 1776	1945 1965 1947 1973 1979 2005
107		
108	I Robot	1950

After:

bID	title	published
101	To Kill a Mocking Bi	1960
102	Animal Farm	1970
103	Dune	1965
104	The Diary of a Young	1947
105	The Princess Bride	1998
106	The Neverending Stor	2004
107	1776	2030
108	I Robot	1975

14. Remove all ratings where the book year is before 1970 or after 2000, and the rating is fewer than 4. After UPDATE is run:

### Data before delete:

title	published	ratings
To Kill a Mocking Bi	1960	2
To Kill a Mocking Bi	1960	4
The Neverending Stor	2004	4
Dune	1965	2
I Robot	1975	4
I Robot	1975	2
To Kill a Mocking Bi	1960	3
Dune	1965	3
The Diary of a Young	1947	2
I Robot	1975	4
1776	2030	3
The Neverending Stor	2004	5
I Robot	1975	5
The Diary of a Young	1947	3
To Kill a Mocking Bi	1960	5
Animal Farm	1970	5
Dune	1965	5
The Diary of a Young	1947	5
The Princess Bride	1998	5
The Neverending Stor	2004	5
1776	2030	5
I Robot	1975	5
sqlite>		

#### Identified data for deletion:

title	published	ratings
To Kill a Mocking Bi	1960	2
Dune	1965	2
To Kill a Mocking Bi	1960	3
Dune	1965	3
The Diary of a Young	1947	2
1776	2030	3
The Diary of a Young	1947	3

## After Delete

sqlite> SELECT title	, published, ratings	FROM Rating AS R JOIN Book AS B ON B.bID = R.bID;
title	published	ratings
To Kill a Mocking Bi	1960	4
The Neverending Stor	2004	4
I Robot	1975	4
I Robot	1975	2
I Robot	1975	4
The Neverending Stor	2004	5
I Robot	1975	5
To Kill a Mocking Bi	1960	5
Animal Farm	1970	5
Dune	1965	5
The Diary of a Young	1947	5
The Princess Bride	1998	5
The Neverending Stor	2004	5
1776	2030	5
I Robot	1975	5
salite>		